Proportional multi-state multiple-cohort life table model

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1 Introduction

The proportional multi-state multiple-cohort life table model (PMSLT) is a population level model (macro) approach to simulate health (and economic) implications of changes in exposure to health risk factors (e.g. physical inactivity, air pollution and diet). The PMSLT has been widely used to simulate outcomes for population level interventions for the reduction of chronic diseases.

The model was developed by Jan Barendregt and colleagues and has been widely used in Australia and New Zealand (T. Vos et al. 2010; Blakely et al. 2015).

The basic infrastructure of the model consist of three components: (1) Effect size for the intervention of interest (e.g. intervention to urban design that modifies population levels of physical activity); (2) Calculation of the potential impact fraction (PIF) to derive the change in occurrence of disease (incidence rate/mortality rate) attributable to a change in the distribution of the risk factor (e.g. physical activity); and (3) Use of the PMSLT to simulate health (and economic) outcomes attributable to a change in the distribution of health risk factor/s in the population of interest. Figure 1 summaries the basic infrastructure of the model. ITHIM is included in Figure 1 to show that both approaches share in common steps one and two and differ in the mechanisms of calculation of change in health burden.

HALYs, QALYs and DALYs

In this model we use the term 'health-adjusted life year' (HALY). As 'summary measure of population health' it measures both quantity and quality of life, where one HALY represent the equivalent of one year in full health (which could be two years with a quality of life of 0.5, for example). Specific types of HALY are the quality-adjusted life year (QALY) and the disability-adjusted life year (DALY). The QALY derives from economics and was first used in the 1960s as a measure of health gain (Gold, Stevenson, and Fryback 2002). The disability-adjusted life-year (DALY) was developed for use in burden of disease studies as a measure of health loss due to disease (Gold, Stevenson, and Fryback 2002). Our calculated HALYs are neither QALYs not DALYs, but something in between. They are similar to QALYs in that they represent health gains. However, the main difference is in the calculation of the health-related quality of life component. QALYs use measures of utility weights that traditionally represent individual experiences of health, whereas our estimated HALYs use disability weights linked to specific diseases, which were developed for the Global Burden of Disease study (Gold, Stevenson, and Fryback 2002). As discussed in past research (L. Cobiac, Vos, and Barendregt 2009; Roux, Pratt, and Tengs 2008) the main advantage of using disability weights over utility weights is that disability weights refer to specific diseases rather than health states. We opted to use the more general terms HALYs given that the use of the DALYs terminology may lead to think that our calculations are similar to those in burden of diseases studies (Murray et al. 2012). In our study, our model does not explicitly separate years of life lost (YLL) and years lived with disability (YLD) components, but instead calculates the total number of life years lived, adjusted for the average health-related quality of life in those years (by age and sex). In burden of disease studies, DALYs are defined as the sum Years of Life Lost (YLL) and Years Lived with Disability (YLD).

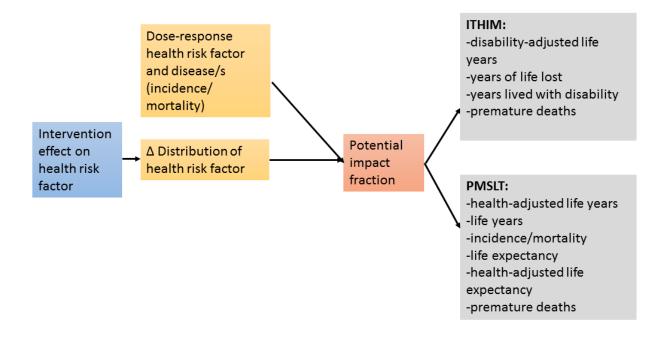


Figure 1: Basic ITHIMR infrastructure

1.1 Contribution to ITHIMR

The PMSLT similar to ITHIM is a comparative risk assessment approach (Briggs, Scarborough, and Smith 2016) that consist of calculating the change in the health burden for a population of interest from a change in exposure to health risks factors (e.g. physical inactivity, air pollution and road trauma). As depicted in Figure 1, both methods need estimates of the potential impact fraction (PIF), which indicates the proportion of the disease burden attributable to a risk factor of interest (e.g. physical inactivity) (Barendregt and Veerman 2010). A step further back, is the development of scenarios that bring about change in the distribution of the risk factor of interest. For now, we only focus on calculations from the PIF onward, and provide a hypothetical example of change in population levels of physical activity. Incorporation of additional health risk factor (air pollution, road trauma, NO2 and noise) will be discussed in the relevant code sections.

1.1.1 Difference between ITHIM and PMSLT

• Time component The *PMSLT* follows a population of interest over time. For example, as set up here, we simulate sex and age (5 years starting at 18) cohorts over time until they die or reach 100 years of age. This implies that we can include trends for diseases, time lags between change in exposure to risk factors and change in health and demographic changes (e.g. population growth). In addition, we can estimate yearly changes in the burden of diseases over the life course or for a specified number of years. The *ITHIM* approach is a snapshot of change in burden for one year.

Interaction between multiple diseases The PMSLT* accounts for the interaction between multiple diseases, with proportions of the population being able to be in more than one health state (Briggs,

Scarborough, and Smith 2016). This avoids overestimation of outcomes as a result of summing health outcomes attributable to each disease individually as done in *ITHIM*. It is important to note that the *PMSLT* assumes that diseases are independent of each other. That is to say, developing a disease is unrelated to a concurrent diagnoses of another disease).

Mortality rate The PMSLT* calculations for changes in life years (and health-adjusted life years) and mortality outcomes is based on observed mortality rates for the population of interest. In the ITHIM model, if burden of disease estimates from the Global Burden of Disease (GBD) study are used, then, the mortality component is based on the highest attained life expectancy observed in the world.

Impact of disability in increased life expectancy In GBD studies, YLLs are not adjusted for disability; hence, their use in estimating intervention effects results in over-estimation, which the PMSLT* approach avoids. Another way of seeing this is that estimated changes in morbidity using the ITHIM do not allow for how implicit increases in life expectancy impact on morbidity. While the changes in deaths and prevalence using the PMSLT are in some ways more accurate than those from the ITHIM approach it should be noted that that the average age of death and incident disease will change and thus the disease burden will be on average be shifted later in life (which is a realistic approach).

2 R development

The model is set up as a long script to perform the required mathematical calculations. Where possible, we wrote functions and loops to avoid repetition. We set up the model with Australian data, for Melbourne. Figure 2 is depicts the PMSLT model framework, which was followed in the code development.



Figure 2: Proportional multi-state life-table simplified framework. The simplied PMST shows the interaction between the life table, disease life table and potential impact fraction (PIF). The PIF calculations by age and sex group are the same as those generated for ITHIM. The PIF (or 1-PIF) modifies incidence of disease, which changes prevalence and mortality (disease specific life table). Changes in prevalence and mortality rates from the disease specific life tables feed into the life table by changing all-cause mortality, which in turn changes life years. Change in prevalence of diseases changes total years lived with disability, which in turn modifies health-adjusted life years

In what follows, first, we specify input parameters. Second, we present the code with explaining notes. Third, we present examples of outcomes and lastly we comment on topics related to implementation. Here we only included the physical activity health pathway. In the comments section, implementation of exposure to air pollution and road trauma is discussed. Note that in the presentation of input parameters, those needed to calculate PIFs are excluded, as these are common to the ITHIM, expect if trends are included (refer to comments section).

2.1 Inputs

We specify data requirements for the life table and disease life tables (Figure 2) and potential sources.

2.1.1 Life table

Inputs of the life table are: population numbers by sex (per 1-year or age grouping of interest), mortality rates or probability of all cause mortality by single age group and sex and total prevalent years lived with disability rate per one year by sex. Disease specific disability weights are presented as inputs here as these adjust the total years lived with disability, hence, the health-adjusted life years.

2.1.1.1 Population numbers

These data will be provided by the synthetic population. In the code presented here, we created 5-year age and sex cohorts from one-year age groups data. I left potential data sources below as a reference.

Data source: (1) National census; (2) Worldwide population and mortality data: http://www.mortality.org/(mostly high income countries; and (3) Calculate from the Global Burden of Disease by the Institute of Health Metrics and Evaluation (GBD IHME) data (rates and numbers available from (http://ghdx.healthdata.org/gbd-results-tool).

2.1.1.2 Mortality rates

Mortality rates are needed per single year and sex. These data are available from GBD IHME, however, in age groups (1-4, 5-9, etc). Interpolation can be used to derive in between ages rates (cubic spline).

Note that we need data for population numbers and all cause mortality rates for: (1) PMSLT and (2) Dismod II collection (more in Dismod II section). Population data from the synthetic population is used for the PMSLT. For Dismod II, population and mortality data should be from the same source (GBD IHME)

2.1.1.3 Total years lived with disability rates per single year and sex.

These data is available from the GBD (http://ghdx.healthdata.org/gbd-results-tool) per 5-year age groups. We can use interpolation to derive between ages rates.

2.1.1.4 Disability weights (quality of life weights)

Disability weights (DW) can be derived from disease specific years lived with disability (YLD) and disease specific prevalence by age group (5 years) and sex. Data for YLDs prevalence can be obtained from the online GBD IHME data tool (http://ghdx.healthdata.org/gbd-results-tool). Our calculations of DW in the example here based on the GBD methods for estimating YLDs as the sum of sequelae prevalence multiplied by sequelae disability weights (REF GBD). The GBD has publicly available data at the cause level (e.g. ischemic heart disease) instead of squelae level (e.g. myocardial infarction, angina and heart failure). However, the GBD disability weights are for health states associated with sequelae, hence, we need to calculate DWs. An age and sex specific-correction was introduced to counteract the effects of accumulating comorbid illnesses in the older age groups (Equation 1).

$$(YLDd/Pd)/(1 - YLDt) = DWadjusted for total YLDs$$
(1)

Where YLDd is the YLD mean number per age and sex for a given disease, Pd is the prevalence (as reported in GBD) for a given disease by age and sex and YLDt is total YLD rate per age and sex.

2.1.2 Disease life tables

2.1.2.1 Incidence and case fatality

For each of the modeled diseases the PMSLT needs incidence and case fatality rates per sex and one-year intervals. Data from the GBD IHME studies with Dismod II (free at https://www.epigear.com/index_files/dismod_ii.html) can be used to derive internally consistent data and generate missing data. For example, the GBD studies provide data for incidence, prevalence and disease mortality, however, not case fatality. Other national level sources may also be explored/used, and compare with estimates produce from GBD data and Dismod II.

Dismod II inputs are: (1) population numbers and mortality rates and (2) disease specific inputs.

Population and mortality

Within Dismod II, each setting (e.g. country) has a collection that consists of population numbers (preferably the same as used in GBD IHME studies, due to the mortality envelop) and all- cause mortality rates (numbers and calculate rates). The GBD provides 5-year age groups that are acceptable input parameters for Dismod II.

Disease inputs by age group and sex

Each setting collection has a given number of diseases. Dismod II works with at least three of: case fatality, prevalence, incidence, mortality (disease), case fatality, remission, duration and the relative risk for mortality. So far, we have been assuming that remission is zero for chronic diseases, that is to say, when people become diseased, they do not recover. Special care should be taken with this assumption, as the GBD data assumes remission for some diseases, for example cancers, where after 10 years cases recover, except for long term sequelae. Since GBD now provides prevalence, incidence and mortality, it may be best to use all three as Dismod II input parameters to compare the effect of the remission assumption by the GBD for some diseases.

Table 1: PMSLT inputs

Input	Source	Comments
Life table	Synthetic population per sex and age group	Age grouping in life table to match synthetic population
Life table	Synthetic population per sex and one-year age group	If one year age group is not avabilable it can be derive using interpolation from age groups data
Life table	Global Burden of Disease (GBD) study per one-year age group and sex	GBD data is in five-year age groups, interpolation to derive one-year age groups
Disease life table	GBD data for prevalence, incidence and mortality and DISMOD II	Two step process. First obtain disease and population data from GBD. Second, use Dismod II to derive internally consistent estimates for incidence and case fatality (PMSLT disease life table iputs
Disease life table	Derive from disease prevalence and years lived with disability from GBD	Adjustments for comorbidities in later years of life to be applied

2.2 Code

Following the structure of Figure 2, we developed functions to perform sex and age cohorts calculations for the life table, disease life tables and potential impact fractions: run_life_table, run_disease and and run_pif. We also generated two functions for outputs: plot_outputs and gen_aggregate. The function plot_outputs creates age-group and sex linear plots for specified outcomes (e.g. health-adjusted life years, incidence of diabetes) and gen_aggregate adds up each cohort results. Functions were then used in a code script. In what follows, we explain each step in the development of the script. Here we also include code chunks, however, we also kept them separately in the MSLT folder, in the code file.

In what follows, we start with the **model** script file, and explain the **functions** script file as these are used to perform calculations. The **functions** will be explained in detailed to provide clarity for required inputs.

2.2.1 Set up

We start by cleaning the global environment (#1) to keep track of our works and ensure that the code is generating our outcomes. Then, we set up an option to avoid the use of scientific notation (#2) and lastly we load the functions (#3). The code chunks are shown in the rmarkdown output.

```
#1
rm (list = ls())
#2
options(scipen=999)
#3
source("code/functions.R")
```

2.2.2 Inputs

Table 1 describes data needs for the PMSLT, here we expand on the data needs and mechanisms (Figure 3) to use the PMSLT approach in ITHIMR (Figure 1).

Initial case studies for the ITHIMR are: London, Sao Pablo, Delhi, Accra, Los Angeles and Edinburgh. Here, we will start with **greater London** given the availability of diseases epidemiology data from the GBD IHME study. For the rest of the case study cities data is available at the country level, hence, a scaling method is needed.

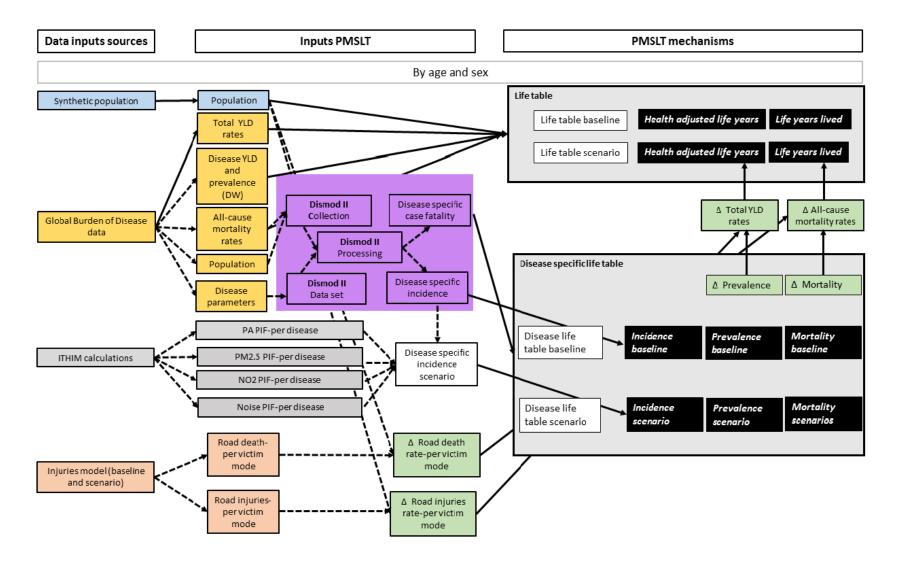


Figure 3: Proportional multi-state life-table model. Three sections are presented in Figure 3: Data input sources, Inputs PMSLT and PMSLT mechanisms. The color coding from Data inputs sources to Inputs PMSLT link sources with inputs for the PMSLT. Solid arrows represent final inputs and dashed-arrows represent intermediate inputs that need further processing. Purple coding means a process and green coding represent change in mortality and disability prevalence rates to modify the life table parameters. Black color coding with white color font represent final model outcomes. For both, the life table and disease life table, two sets of each are simulated, one for the baseline and the other for the scenario. Data inputs are from four sources: Sythetic population, GBD data (from the Institute of Health Metrics and Evaluations (IHME)), ITHIM calculations and Injuries model. The synthetic population provides population numbers by age-groups and sex which are used in the life table (PMSLT Mechanisms) with each age cohort simulated until they die or reach 100 years of age. Population numbers are also used to derive road death rates and road injuries rates from numbers for the baseline and scenario generated by the Injuries model. The difference in road deaths rates modifies all cause-mortally in the scenario life table and the change in injuries rates modifies total YLDs rates (hence, healthy life years). Data from GBD IHME includes: total YLD rates per one, disease specific YLDs (numbers) and prevalence to derive disability weights for the included diseases, all cause mortally rates per one, population

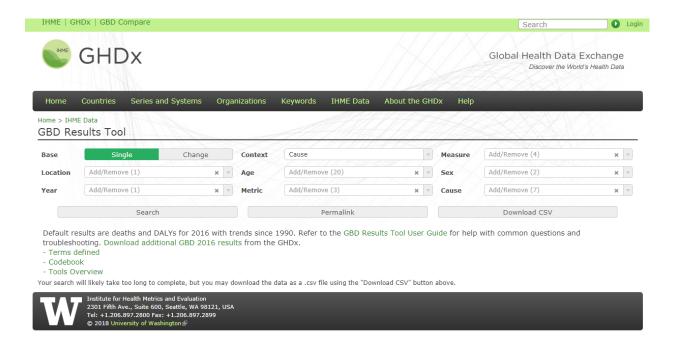


Figure 4: Global Burden of Disease data results tool.

2.2.2.1 Global Burden of Disease data

First, we explain how to obtain the data, second additional processing to derive data not reported (population) and one-year age groups (original data is in five-year age groups) and last procedure to use Dismod II. Data from the *Global Burden of Disease data* in Figure 3 can be download from here: http://ghdx.healthdata.org/gbd-results-tool. Figure 4 is a screenshot of the GHDx.

Table 2 specifies the selections to do for each of the tabs in Figure 2.

Once the selections described in Table 2 are made, the option *Download CVS** in the GHDx website is selected. A prompt comes up asking for an email address. The data is sent to the designated email address (within minutes) in ZIP format, unzip and use the code below to read the data. Here, we selected data for Greater London and England. The aim is to compare and derive scaling factors as for most cities the data is not available from the GBD and country level data may be used and scaled to the city level. Note that the data input requirement for the PMSLT, except population numbers, is in rates. Therefore the scaling is to better reflect the burden of an area, this is a different issue than working with numbers (e.g. total mortality numbers, total YLDs numbers) as in the ITHIM approach.

```
options(scipen=999)
GBDdata <- read.csv("data/IHME-GBD_2016_DATA-8fca12f6-1.csv", stringsAsFactors = F)</pre>
```

The following code serves to sort out the GBD data to the inputs required for the life table, disease life table and Dismod II

ALSO PART OF THE BELOW CODE WILL BE NEEDED FOR THE MSLT AND DISMOD COLLECTION. GENERATE DATA INPUTS FOR DISMOD II FROM HERE. These data should be used to generate the general life table and disease life tables (Figure 3).

Table 2: Global burden of disease data

Tab	Selection
Base	Single
Location	Case study city
Year	Latest available
Context	Cause
Age	Under 5, 5 to 9, 10 to 14, 15 to 19, 20 to 24, 25 to 29, 30 to 34, 35 to 39, 40 to 49, 50 to 54, 55 to 59, 60 to 64, 65 to 69, 70 to 74, 75 to 79, 80 to 84, 89 to 89, 90 to 95, 95 plus
Metric	Number, Rate
Measure	Deaths, YLDs, Prevalence, Incidence
Sex	Male, Female
Cause	Total All causes, ischemic heart disease, etc

```
#Data preparation (generate age groups, change capitals to lower case)
##All upper cases to lower cases
GBDdata <- mutate_all(GBDdata, funs(tolower))</pre>
##Create age categories index in GBDdata (rounding mid age), total of 20 age groups. These are the age
GBDdata$age_cat [GBDdata$age =="under 5"] <- 2</pre>
GBDdata$age_cat [GBDdata$age =="5 to 9"] <- 7</pre>
GBDdata$age_cat [GBDdata$age =="10 to 14"] <- 12</pre>
GBDdata$age_cat [GBDdata$age =="15 to 19"] <- 17
GBDdata$age_cat [GBDdata$age =="20 to 24"] <- 22</pre>
GBDdata$age_cat [GBDdata$age =="25 to 29"] <- 27
GBDdata$age_cat [GBDdata$age =="30 to 34"] <- 32</pre>
GBDdata$age_cat [GBDdata$age =="35 to 39"] <- 37
GBDdata$age_cat [GBDdata$age =="40 to 44"] <- 42
GBDdata$age_cat [GBDdata$age =="45 to 49"] <- 47</pre>
GBDdata$age_cat [GBDdata$age =="50 to 54"] <- 52</pre>
GBDdata$age_cat [GBDdata$age =="55 to 59"] <- 57
GBDdata$age_cat [GBDdata$age =="60 to 64"] <- 62</pre>
GBDdata$age_cat [GBDdata$age =="65 to 69"] <- 67</pre>
GBDdata$age_cat [GBDdata$age =="70 to 74"] <- 72
GBDdata$age_cat [GBDdata$age =="75 to 79"] <- 77
GBDdata$age_cat [GBDdata$age =="80 to 84"] <- 82
GBDdata$age_cat [GBDdata$age =="85 to 89"] <- 87
GBDdata$age_cat [GBDdata$age =="90 to 94"] <- 92
GBDdata$age_cat [GBDdata$age =="95 plus"] <- 97</pre>
```

```
##Create age and sex categories to obtain population numbers. Population numbers from GBD are used in
##Dismod II. For the Life table (Figure 3), the numbers may be from the synthetic population.
GBDdata$sex_age_cat <- paste(GBDdata$age_cat,GBDdata$sex, sep = "_" )</pre>
##Convert variable "val" to numeric as its latter used in calculations.
GBDdata$val <- as.numeric(as.character(GBDdata$val))</pre>
##Generate population numbers for England and Greater London in a new data frame ("GBD_population") and
GBD_population <- filter(GBDdata, measure == "deaths", cause == "all causes", metric == "rate" | metric
###Generate population numbers from given number of cases and rates per 100,000 people.
for (i in 1:nrow(GBD_population)) {
   if (GBD_population$metric[i] == "number") {
      GBD_population$val_pop[i] <- GBD_population$val[i] * 100000/ GBD_population$val[i + 2]}
  else {GBD_population$val_pop[i] <- NA}</pre>
}
##Remove rows with zero
GBD_population <- GBD_population[!is.na(GBD_population$val_pop),]</pre>
##Keep relevant variables
GBD_population <- filter(GBD_population) %>% select(sex_age_cat, val_pop, location)
##Create data frames for Greater London and England population to be later used as inputs for PMSLT cal
GBD_population_GL <- filter(GBD_population, location == "greater london") %>% select(sex_age_cat, val_
GBD_population_England <- filter(GBD_population, location == "england") %% select(sex_age_cat, val_po
##Check population total numbers
GreaterLondon <- sum(GBD_population_GL$val_pop)</pre>
England <- sum(GBD_population_England$val_pop)</pre>
##Generate data frames for England and Grater London with per person rates (per 100,000 in original dat
#England
GBDEngland <- filter(GBDdata, location == "england" & metric == "rate") %>% select(measure, location, s
```

```
GBDEngland$one_rate <- GBDEngland$val/100000

#Greater London (GL)

GBDGL <- filter(GBDdata, location == "greater london" & metric == "rate") %>% select(measure, location,
GBDGL$one_rate <- GBDGL$val/100000</pre>
```

These graphs are to compare GBD data for England and Greater London.

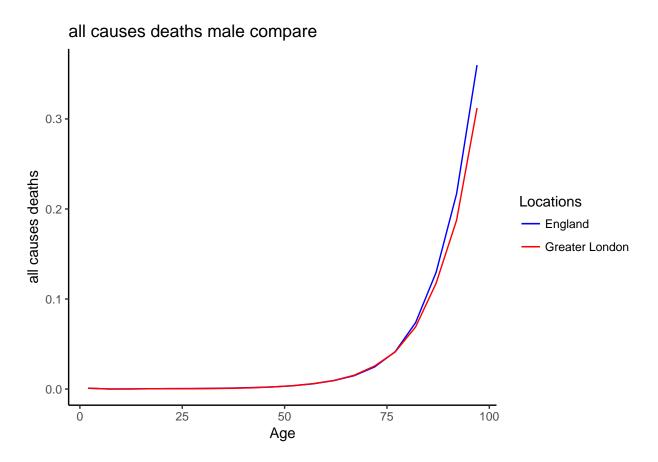


Figure 5: TRUE

```
## $data
## $data[[1]]
##
      colour
                             y PANEL group size linetype alpha
## 1
        blue
             2 0.00101402196
                                             0.5
                                                              NA
## 2
        blue 7 0.00008654044
                                             0.5
                                                         1
                                                              NA
        blue 12 0.00010135338
## 3
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 4
        blue 17 0.00032174108
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
        blue 22 0.00050592257
## 5
                                             0.5
                                                         1
                                                              NA
## 6
        blue 27 0.00059452223
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 7
        blue 32 0.00078365038
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
        blue 37 0.00111705924
## 8
                                    1
                                             0.5
                                                         1
                                                              NA
```

```
## 9
        blue 42 0.00163481609
                                              0.5
                                                          1
                                                                NA
## 10
        blue 47 0.00238141575
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 11
        blue 52 0.00366957609
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 12
        blue 57 0.00586912782
                                           1
                                              0.5
                                                          1
                                                                NA
## 13
        blue 62 0.00941032149
                                              0.5
                                                                NA
                                     1
                                           1
                                                          1
## 14
        blue 67 0.01484988622
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
        blue 72 0.02461984672
                                              0.5
## 15
                                     1
                                           1
                                                          1
                                                                NA
## 16
        blue 77 0.04147476287
                                           1
                                              0.5
                                                                NA
                                     1
                                                          1
## 17
        blue 82 0.07382320405
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 18
        blue 87 0.12955140620
                                           1
                                              0.5
                                                          1
                                                                NA
## 19
        blue 92 0.21683705416
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 20
        blue 97 0.35982913992
                                     1
                                              0.5
                                                                NA
##
## $data[[2]]
##
      colour x
                              y PANEL group size linetype alpha
                                     1
                                           1
                                              0.5
## 1
         red 2 0.00088290978
                                                          1
                                                                NA
## 2
         red 7 0.00009264618
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
                                              0.5
## 3
         red 12 0.00008731911
                                                          1
                                                                NA
         red 17 0.00032146988
## 4
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
         red 22 0.00045482322
                                              0.5
                                                                NA
## 5
                                     1
                                           1
                                                          1
## 6
         red 27 0.00043791898
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
         red 32 0.00054821102
                                              0.5
## 7
                                     1
                                           1
                                                          1
                                                                NA
                                              0.5
## 8
         red 37 0.00084923917
                                     1
                                           1
                                                          1
                                                                NA
## 9
         red 42 0.00138109639
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
         red 47 0.00232329275
                                              0.5
## 10
                                     1
                                           1
                                                          1
                                                                NA
## 11
         red 52 0.00377558912
                                              0.5
                                     1
                                           1
                                                          1
                                                                NA
## 12
         red 57 0.00601481669
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 13
         red 62 0.00951177536
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
## 14
         red 67 0.01536409192
                                           1
                                              0.5
                                                          1
                                                                NA
                                     1
                                              0.5
## 15
         red 72 0.02563687040
                                                          1
                                                                NA
         red 77 0.04120637418
                                              0.5
## 16
                                     1
                                           1
                                                          1
                                                                NA
## 17
         red 82 0.06907934486
                                           1
                                              0.5
                                                          1
                                                                NA
                                     1
## 18
         red 87 0.11747458333
                                              0.5
                                                                NA
         red 92 0.18753877934
## 19
                                     1
                                           1
                                              0.5
                                                          1
                                                                NA
         red 97 0.31208076856
## 20
                                     1
                                           1 0.5
                                                          1
                                                                NA
##
##
## $layout
   <ggproto object: Class Layout>
##
       facet: <ggproto object: Class FacetNull, Facet>
##
##
            compute_layout: function
##
           draw back: function
           draw_front: function
##
```

```
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
           params: list
##
##
           render_back: function
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train positions: function
##
           train_scales: function
##
           vars: function
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish data: function
##
##
       get_scales: function
       map: function
##
##
       map_position: function
       panel_layout: data.frame
##
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
       render_labels: function
##
##
       reset_scales: function
##
       setup: function
       train_position: function
##
##
       train_ranges: function
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
##
## $plot
```



Figure 6: TRUE

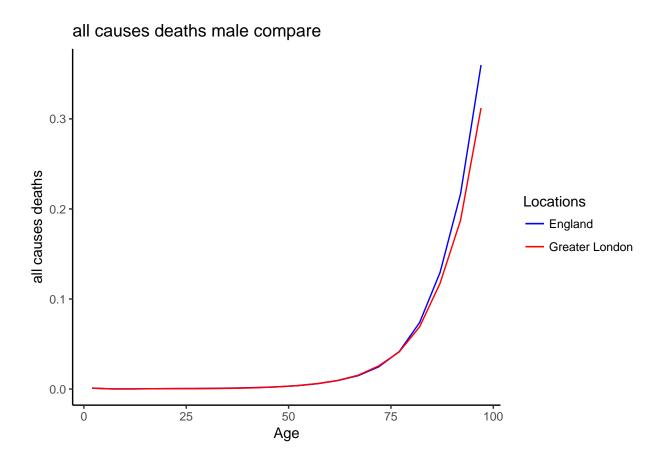


Figure 7: TRUE

##	\$data									
##	\$da	\$data[[1]]								
##		colour	x	у	PANEL	group	size	linetype	alpha	
##	1	blue	2	0.00101402196	1	1	0.5	1	NA	
##	2	blue	7	0.00008654044	1	1	0.5	1	NA	
##	3	blue	12	0.00010135338	1	1	0.5	1	NA	
##	4	blue	17	0.00032174108	1	1	0.5	1	NA	
##	5	blue	22	0.00050592257	1	1	0.5	1	NA	
##	6	blue	27	0.00059452223	1	1	0.5	1	NA	
##	7	blue	32	0.00078365038	1	1	0.5	1	NA	
##	8	blue	37	0.00111705924	1	1	0.5	1	NA	
##	9	blue	42	0.00163481609	1	1	0.5	1	NA	
##	10	blue	47	0.00238141575	1	1	0.5	1	NA	
##	11	blue	52	0.00366957609	1	1	0.5	1	NA	
##	12	blue	57	0.00586912782	1	1	0.5	1	NA	
##	13	blue	62	0.00941032149	1	1	0.5	1	NA	
##	14	blue	67	0.01484988622	1	1	0.5	1	NA	
##	15	blue	72	0.02461984672	1	1	0.5	1	NA	
##	16	blue	77	0.04147476287	1	1	0.5	1	NA	

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 8: TRUE

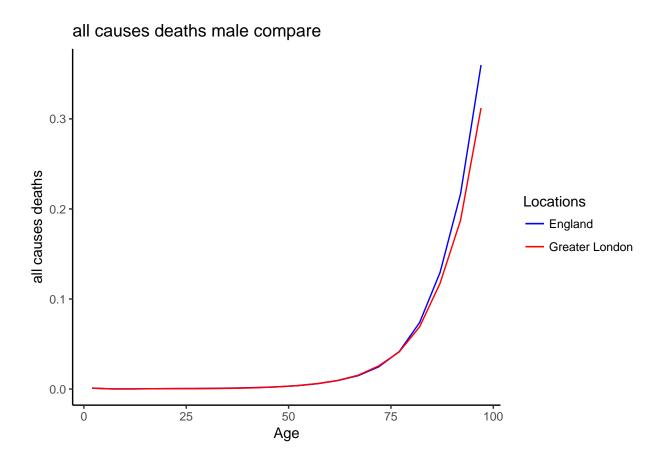


Figure 9: TRUE

##	\$da	ata									
##	\$da	\$data[[1]]									
##		colour	х	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 10: TRUE

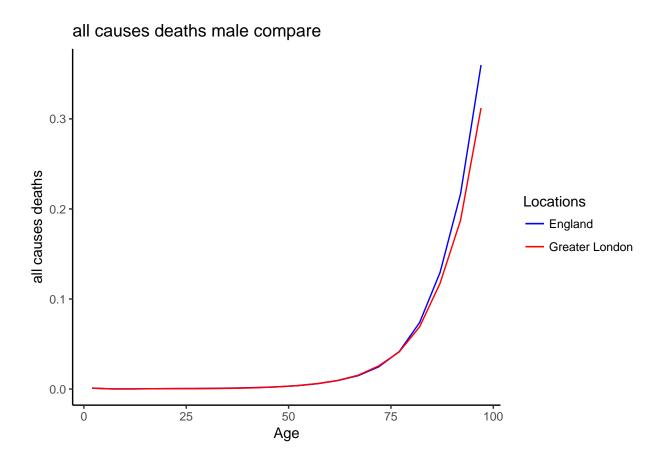


Figure 11: TRUE

##	\$data									
##	\$da	\$data[[1]]								
##		colour	x	у	PANEL	group	size	linetype	alpha	
##	1	blue	2	0.00101402196	1	1	0.5	1	NA	
##	2	blue	7	0.00008654044	1	1	0.5	1	NA	
##	3	blue	12	0.00010135338	1	1	0.5	1	NA	
##	4	blue	17	0.00032174108	1	1	0.5	1	NA	
##	5	blue	22	0.00050592257	1	1	0.5	1	NA	
##	6	blue	27	0.00059452223	1	1	0.5	1	NA	
##	7	blue	32	0.00078365038	1	1	0.5	1	NA	
##	8	blue	37	0.00111705924	1	1	0.5	1	NA	
##	9	blue	42	0.00163481609	1	1	0.5	1	NA	
##	10	blue	47	0.00238141575	1	1	0.5	1	NA	
##	11	blue	52	0.00366957609	1	1	0.5	1	NA	
##	12	blue	57	0.00586912782	1	1	0.5	1	NA	
##	13	blue	62	0.00941032149	1	1	0.5	1	NA	
##	14	blue	67	0.01484988622	1	1	0.5	1	NA	
##	15	blue	72	0.02461984672	1	1	0.5	1	NA	
##	16	blue	77	0.04147476287	1	1	0.5	1	NA	

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
        blue 97 0.35982913992
## 20
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
         red 27 0.00043791898
                                             0.5
## 6
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 14
         red 67 0.01536409192
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
         red 82 0.06907934486
## 17
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
           map: function
##
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

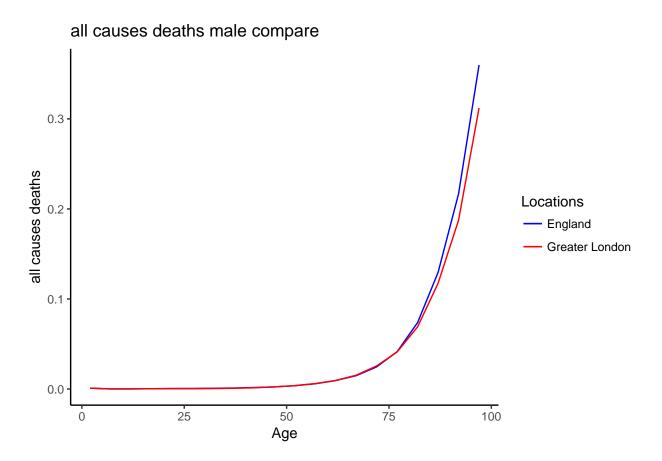


Figure 12: TRUE

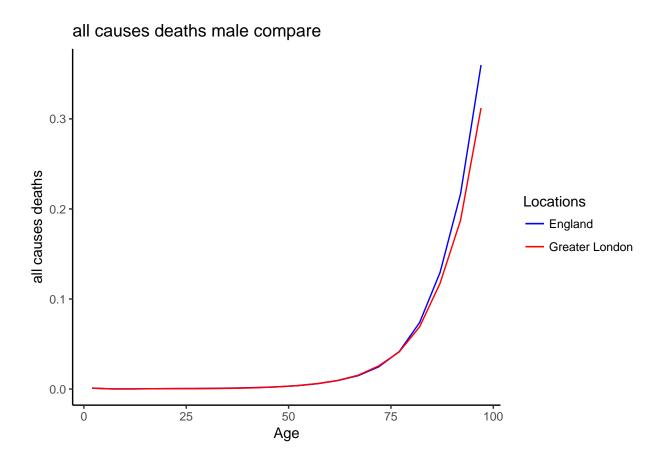


Figure 13: TRUE

##	\$data									
##	\$da	\$data[[1]]								
##		colour	x	У	PANEL	group	size	linetype	alpha	
##	1	blue	2	0.00101402196	1	1	0.5	1	NA	
##	2	blue	7	0.00008654044	1	1	0.5	1	NA	
##	3	blue	12	0.00010135338	1	1	0.5	1	NA	
##	4	blue	17	0.00032174108	1	1	0.5	1	NA	
##	5	blue	22	0.00050592257	1	1	0.5	1	NA	
##	6	blue	27	0.00059452223	1	1	0.5	1	NA	
##	7	blue	32	0.00078365038	1	1	0.5	1	NA	
##	8	blue	37	0.00111705924	1	1	0.5	1	NA	
##	9	blue	42	0.00163481609	1	1	0.5	1	NA	
##	10	blue	47	0.00238141575	1	1	0.5	1	NA	
##	11	blue	52	0.00366957609	1	1	0.5	1	NA	
##	12	blue	57	0.00586912782	1	1	0.5	1	NA	
##	13	blue	62	0.00941032149	1	1	0.5	1	NA	
##	14	blue	67	0.01484988622	1	1	0.5	1	NA	
##	15	blue	72	0.02461984672	1	1	0.5	1	NA	
##	16	blue	77	0.04147476287	1	1	0.5	1	NA	

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 14: TRUE

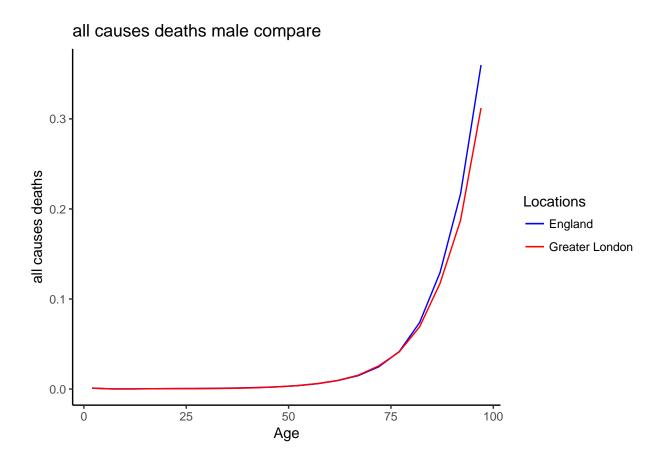


Figure 15: TRUE

##	\$data									
##	\$da	\$data[[1]]								
##		colour	x	у	PANEL	group	size	linetype	alpha	
##	1	blue	2	0.00101402196	1	1	0.5	1	NA	
##	2	blue	7	0.00008654044	1	1	0.5	1	NA	
##	3	blue	12	0.00010135338	1	1	0.5	1	NA	
##	4	blue	17	0.00032174108	1	1	0.5	1	NA	
##	5	blue	22	0.00050592257	1	1	0.5	1	NA	
##	6	blue	27	0.00059452223	1	1	0.5	1	NA	
##	7	blue	32	0.00078365038	1	1	0.5	1	NA	
##	8	blue	37	0.00111705924	1	1	0.5	1	NA	
##	9	blue	42	0.00163481609	1	1	0.5	1	NA	
##	10	blue	47	0.00238141575	1	1	0.5	1	NA	
##	11	blue	52	0.00366957609	1	1	0.5	1	NA	
##	12	blue	57	0.00586912782	1	1	0.5	1	NA	
##	13	blue	62	0.00941032149	1	1	0.5	1	NA	
##	14	blue	67	0.01484988622	1	1	0.5	1	NA	
##	15	blue	72	0.02461984672	1	1	0.5	1	NA	
##	16	blue	77	0.04147476287	1	1	0.5	1	NA	

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 16: TRUE

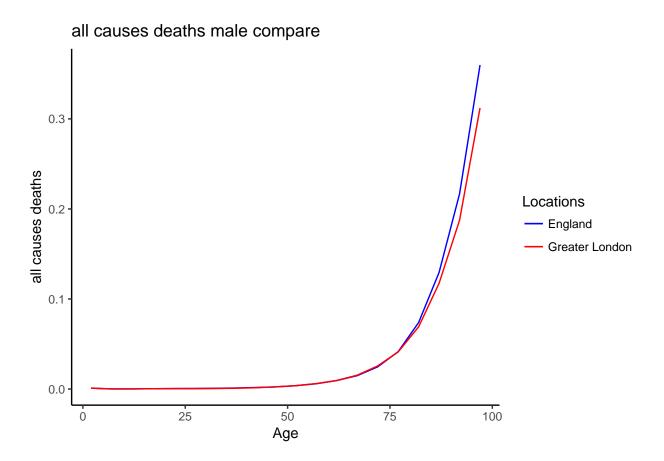


Figure 17: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 18: TRUE

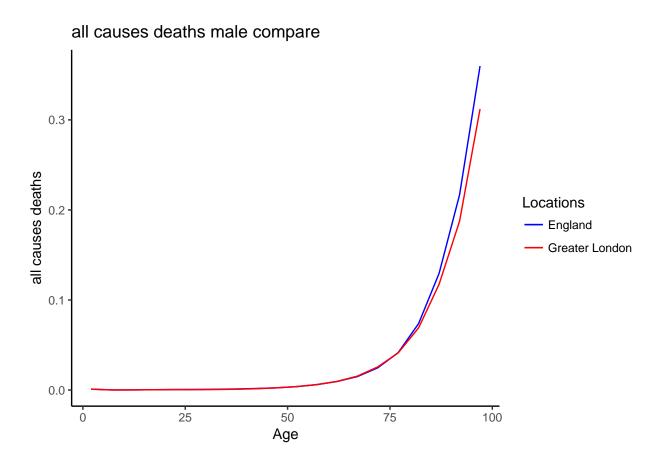


Figure 19: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	х	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

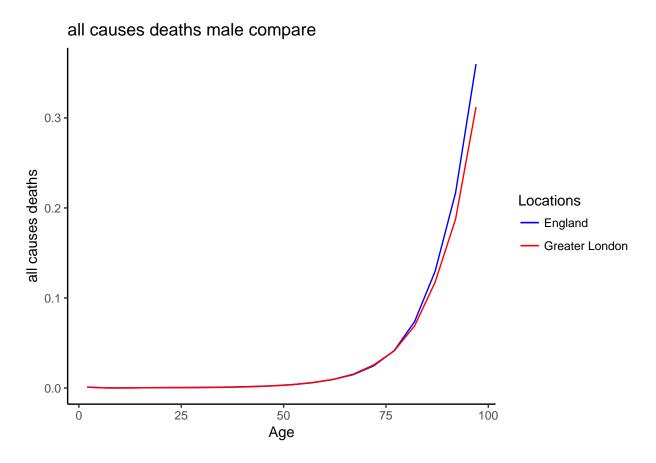


Figure 20: TRUE

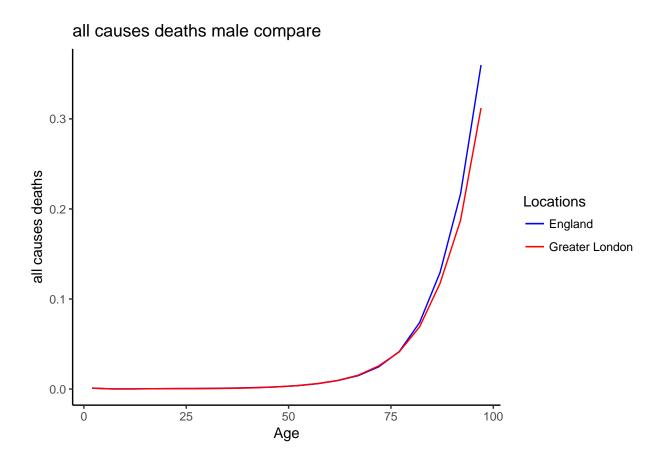


Figure 21: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                         1
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
        blue 97 0.35982913992
## 20
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
         red 27 0.00043791898
                                             0.5
## 6
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
                                             0.5
## 12
                                    1
                                          1
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 14
         red 67 0.01536409192
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
         red 82 0.06907934486
## 17
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
  <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
           map: function
##
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 22: TRUE

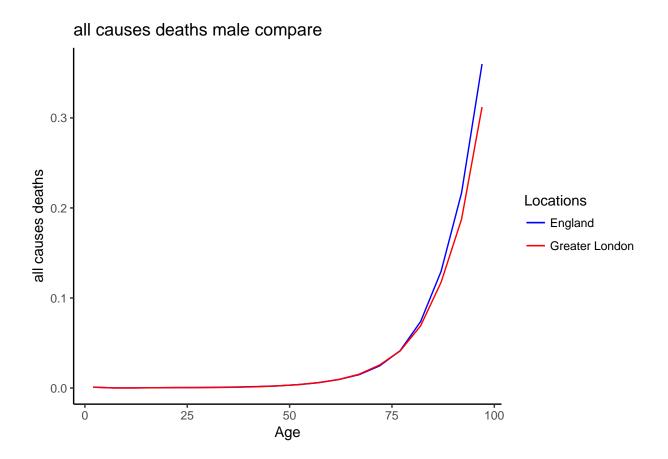


Figure 23: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	х	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

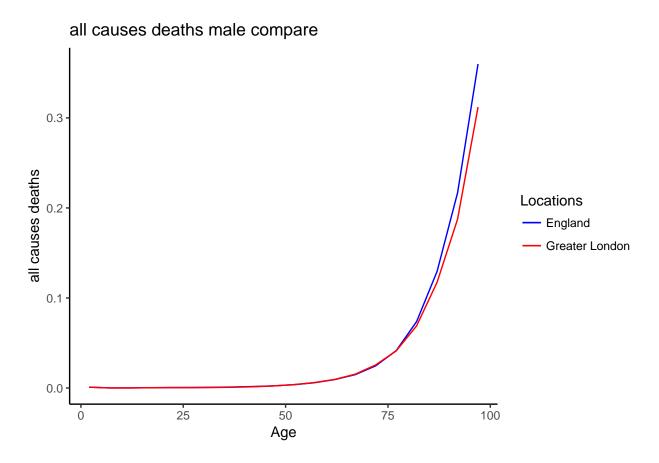


Figure 24: TRUE

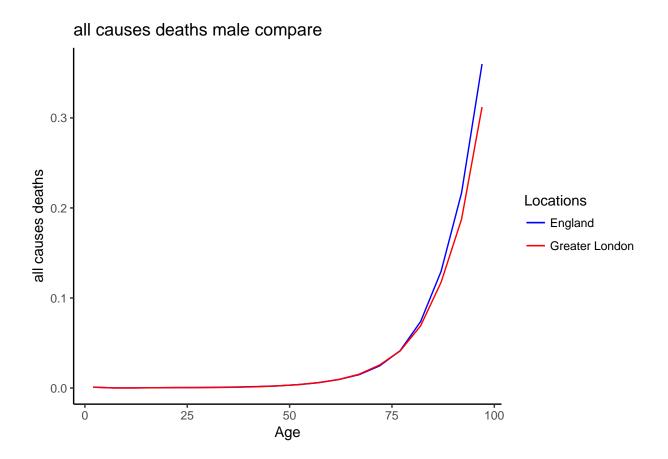


Figure 25: TRUE

##	\$da	+-										
	•											
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	${\tt linetype}$	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

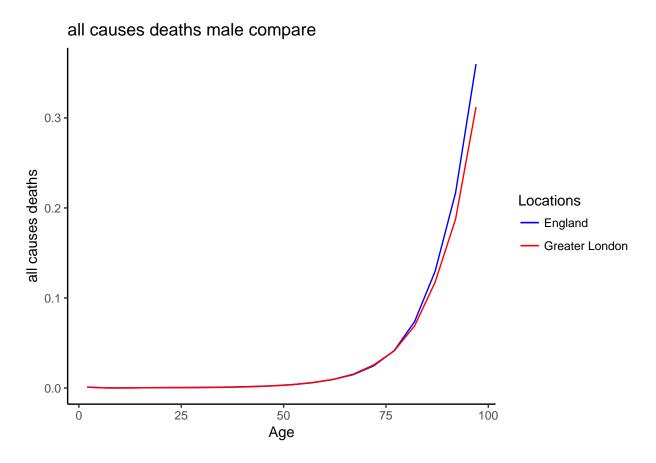


Figure 26: TRUE

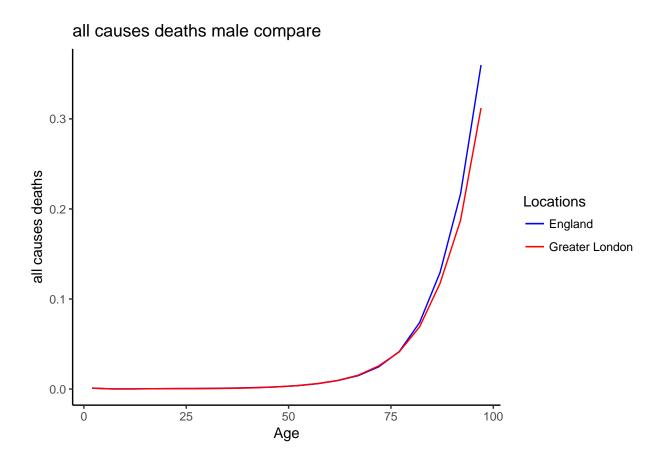


Figure 27: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

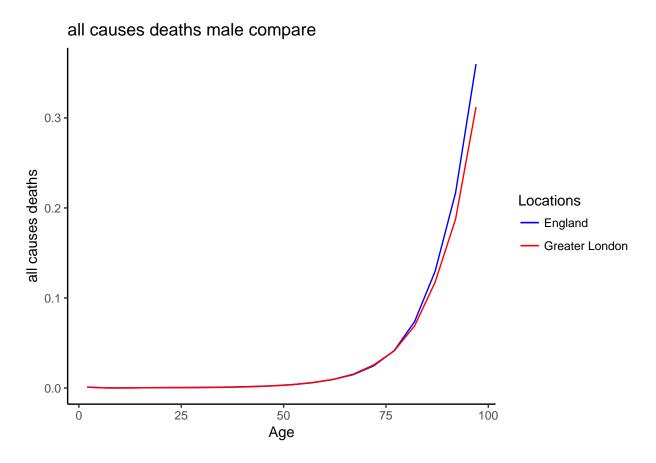


Figure 28: TRUE

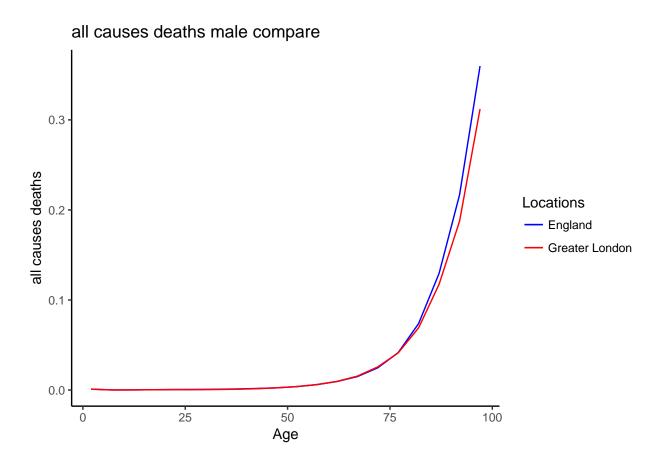


Figure 29: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

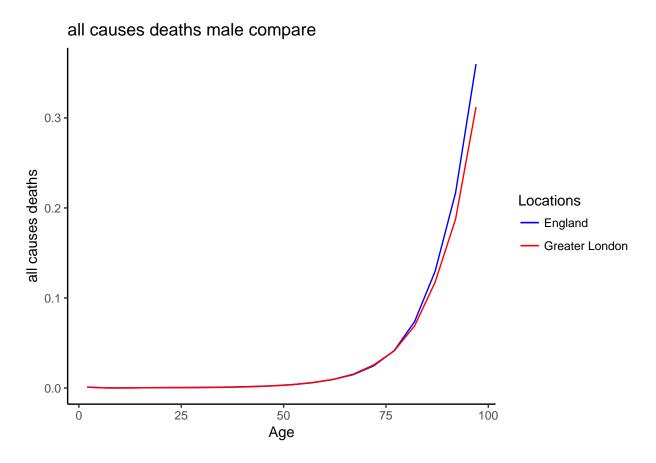


Figure 30: TRUE

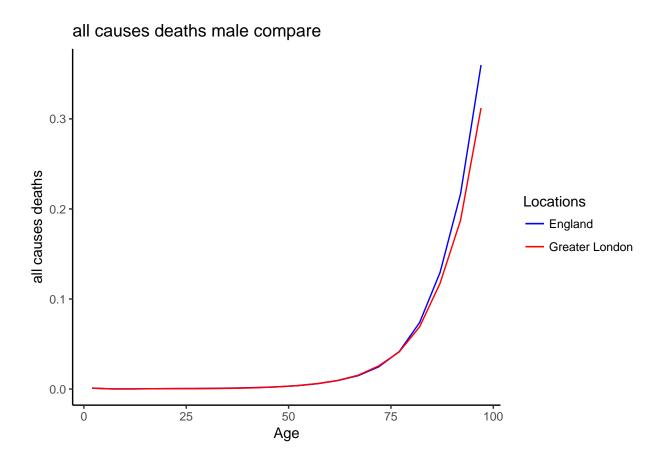


Figure 31: TRUE

##	\$da	ata									
##	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

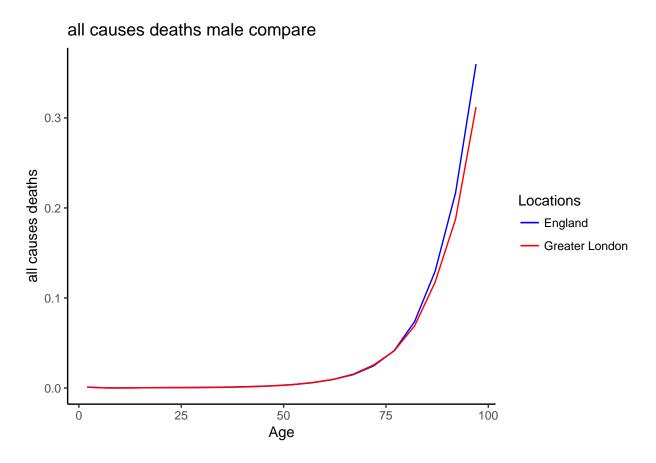


Figure 32: TRUE

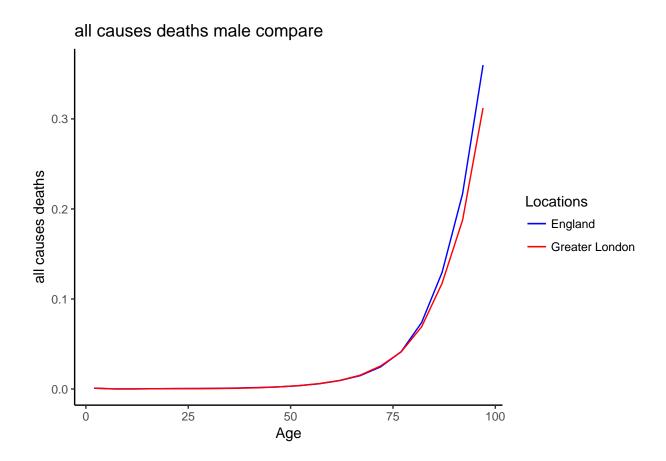


Figure 33: TRUE

##	\$da	ata									
##	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
         red 82 0.06907934486
## 17
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
  <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
           map: function
##
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 34: TRUE

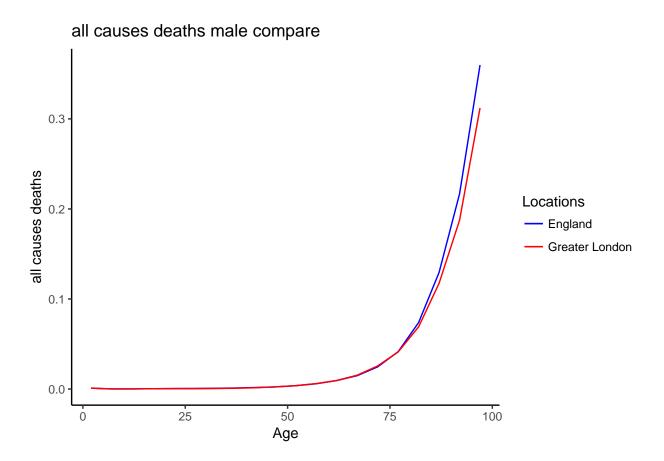


Figure 35: TRUE

##	\$da	+-										
	•											
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	${\tt linetype}$	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 14
         red 67 0.01536409192
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
         red 82 0.06907934486
## 17
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
           map: function
##
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 36: TRUE

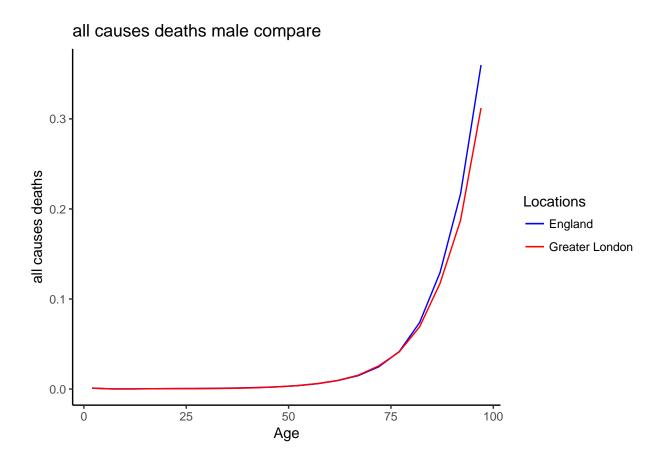


Figure 37: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	х	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

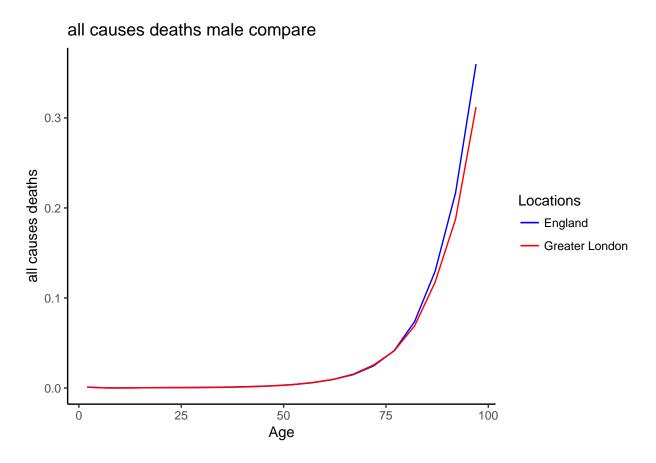


Figure 38: TRUE

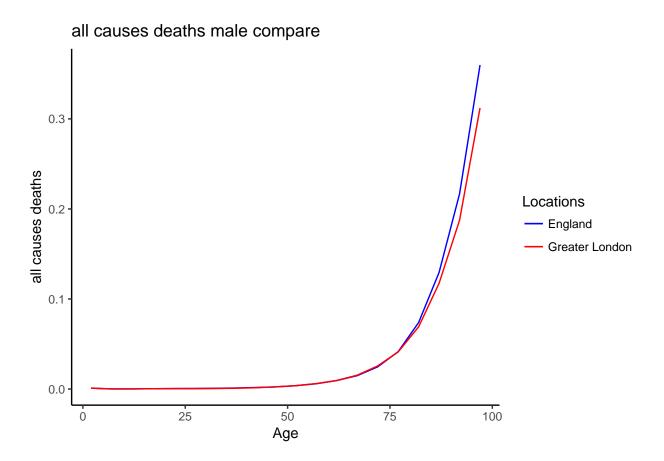


Figure 39: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
           render_panels: function
##
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

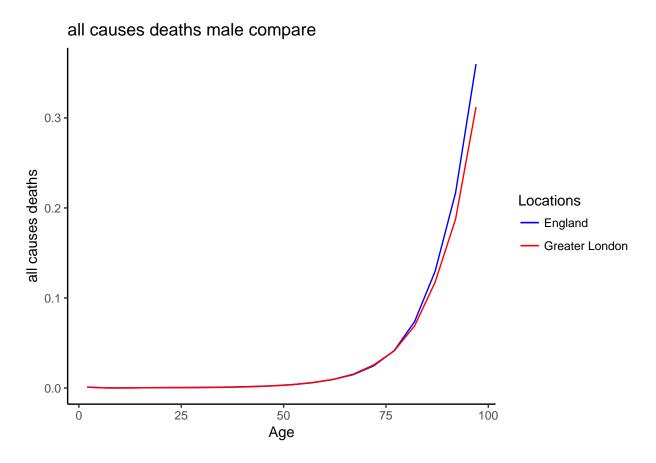


Figure 40: TRUE

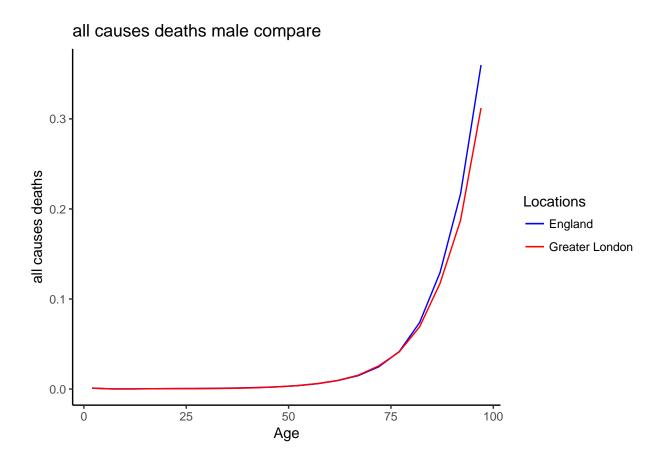


Figure 41: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 37 0.00084923917
## 8
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                          1
                                                         1
                                                              NA
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
##
           draw_panels: function
##
           finish_data: function
##
           init_scales: function
           map: function
##
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
       setup: function
##
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

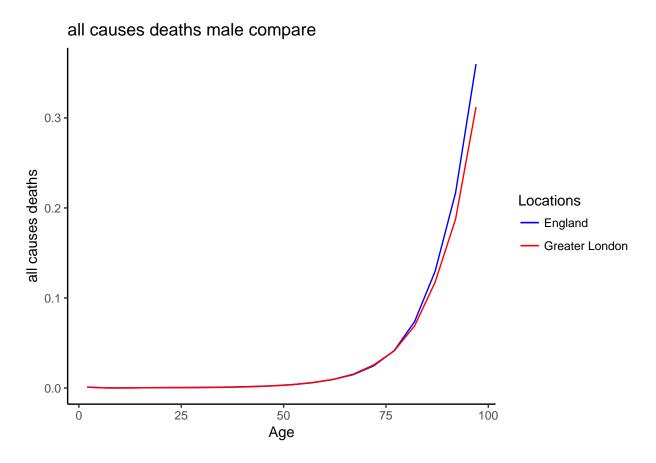


Figure 42: TRUE

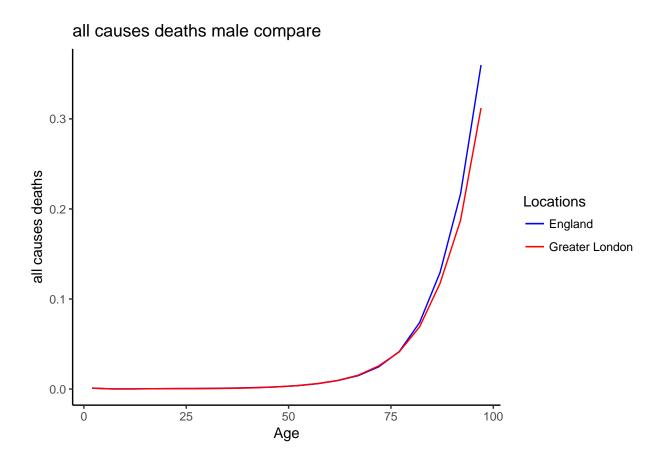


Figure 43: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
           draw_back: function
##
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 44: TRUE

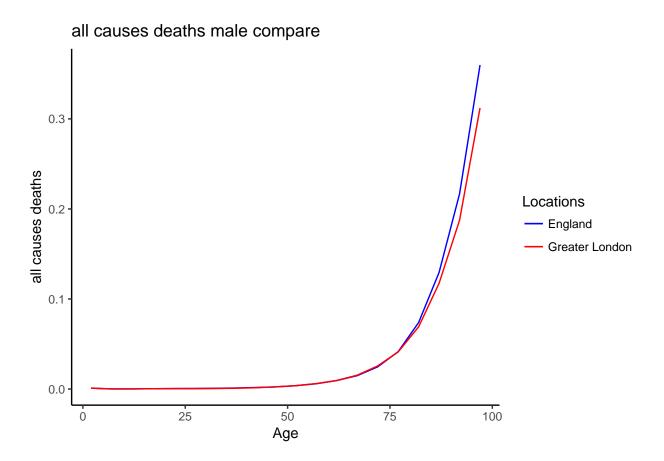


Figure 45: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
##
           setup_params: function
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

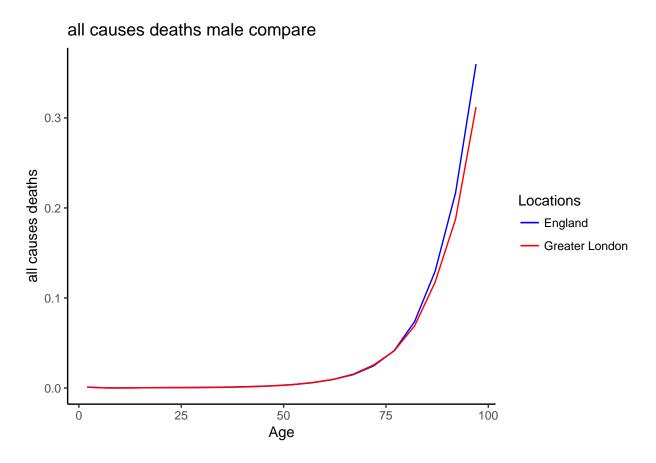


Figure 46: TRUE

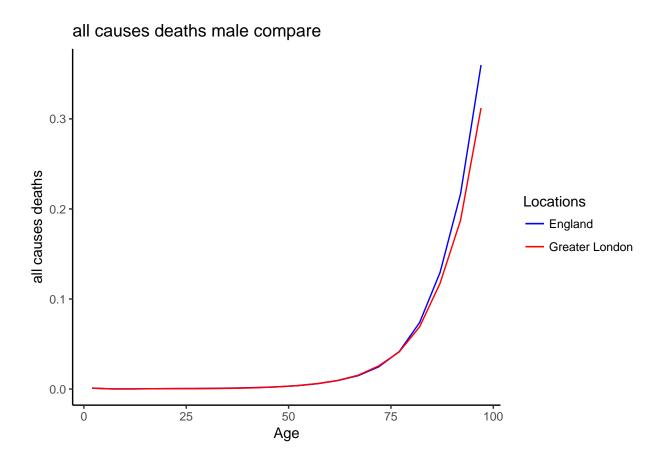


Figure 47: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                         1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

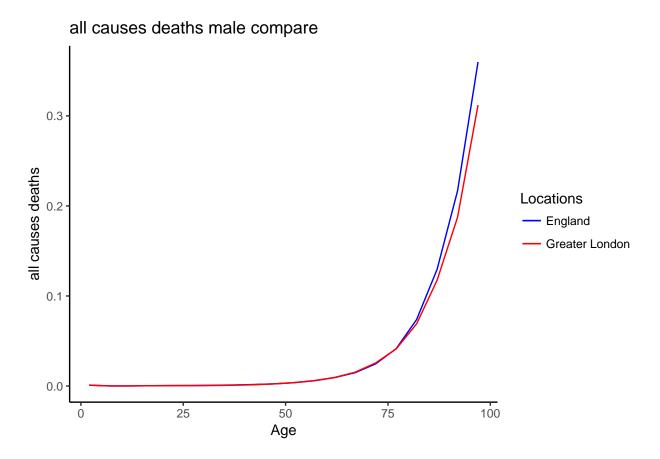


Figure 48: TRUE

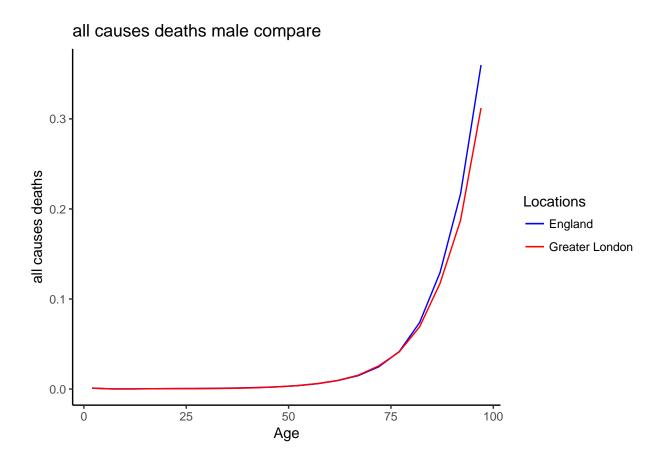


Figure 49: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                              0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                              0.5
                                                          1
                                                               NA
##
## $data[[2]]
##
      colour
                              y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                              0.5
                                                          1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                              0.5
                                                          1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                              0.5
                                                          1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 8
         red 37 0.00084923917
                                              0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                              0.5
                                                          1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 13
         red 62 0.00951177536
                                              0.5
                                                               NA
                                    1
                                          1
                                                          1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
         red 72 0.02563687040
                                              0.5
                                                               NA
## 15
                                    1
                                           1
                                                          1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                          1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                              0.5
                                                          1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                          1
                                                               NA
## 19
         red 92 0.18753877934
                                              0.5
                                                          1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                              0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 50: TRUE

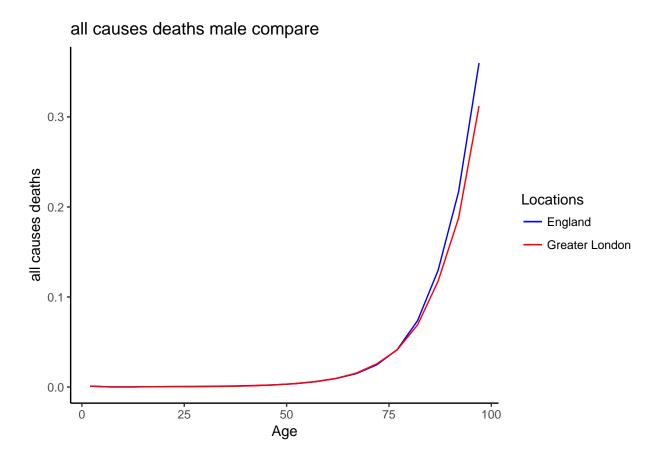


Figure 51: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

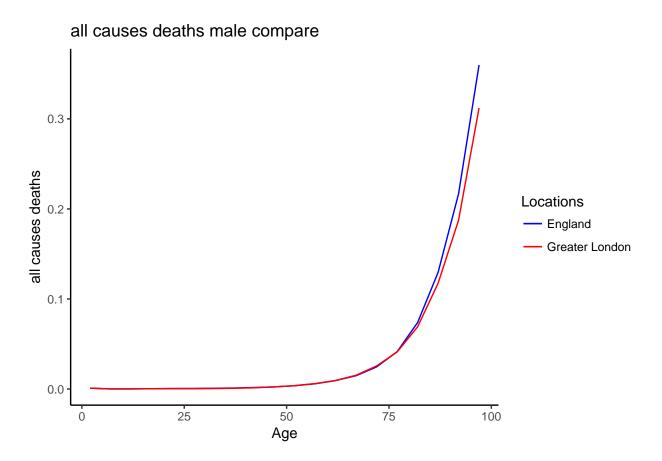


Figure 52: TRUE

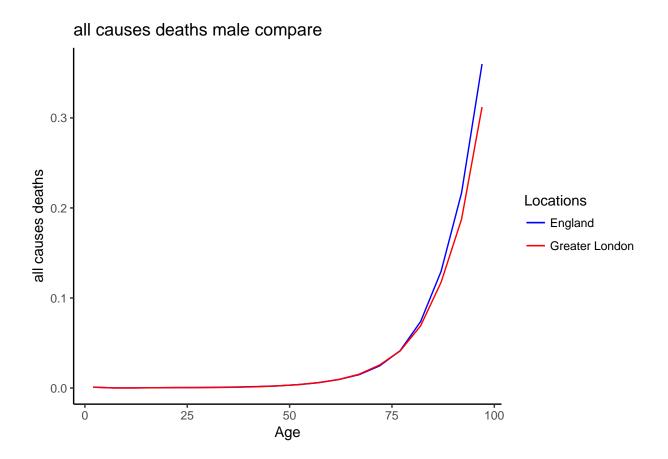


Figure 53: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```

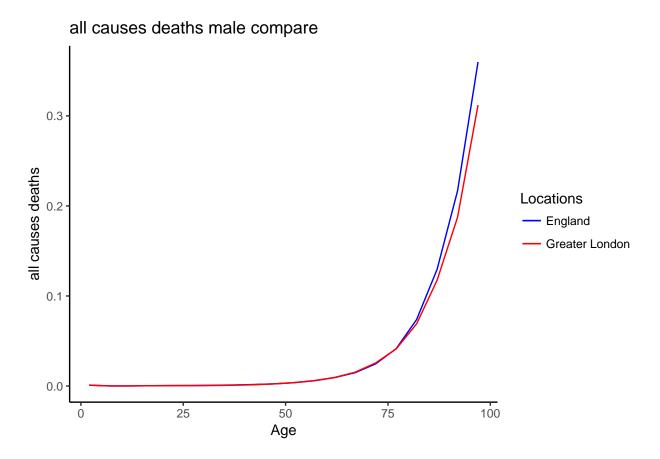


Figure 54: TRUE

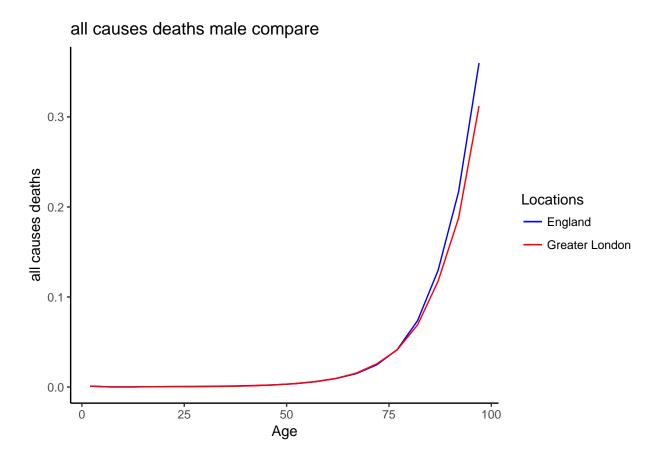


Figure 55: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

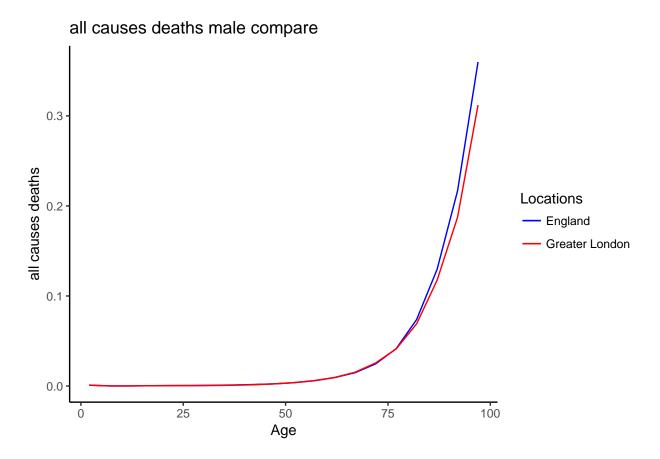


Figure 56: TRUE

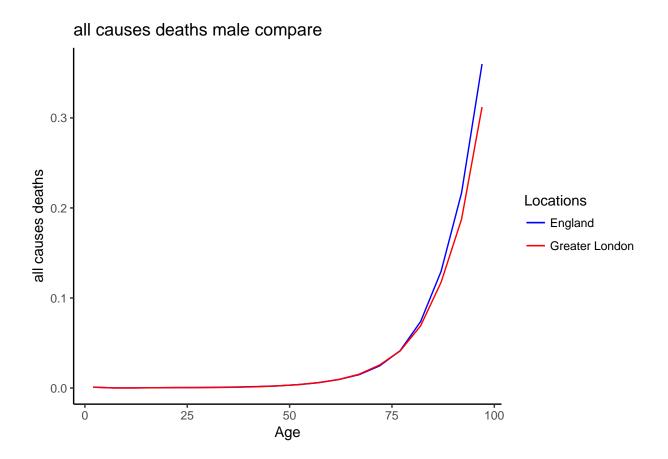


Figure 57: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour x
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                          1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 58: TRUE

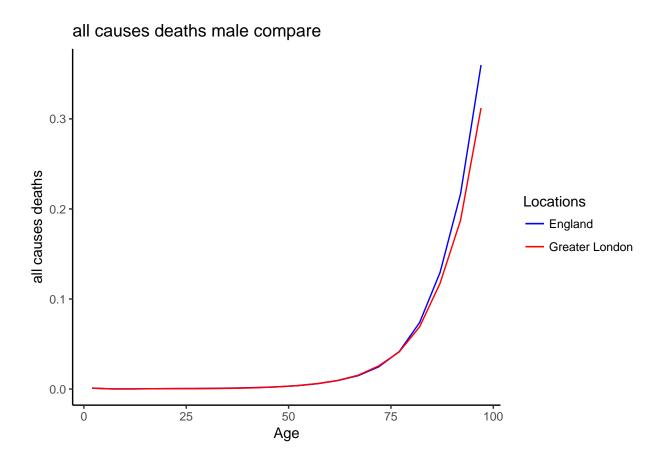


Figure 59: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 60: TRUE

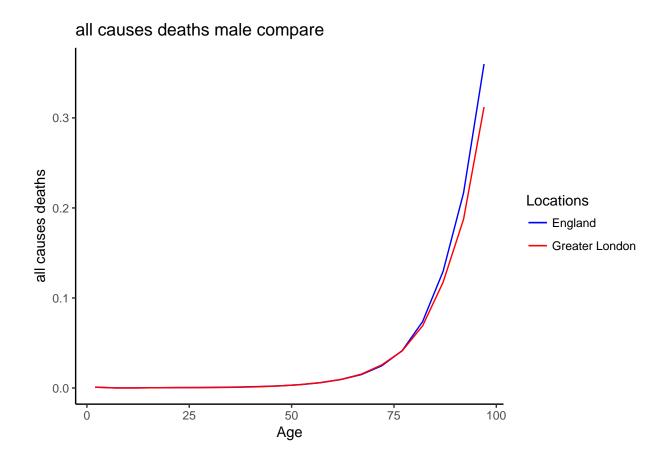


Figure 61: TRUE

##	\$da	ata									
##	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 62: TRUE

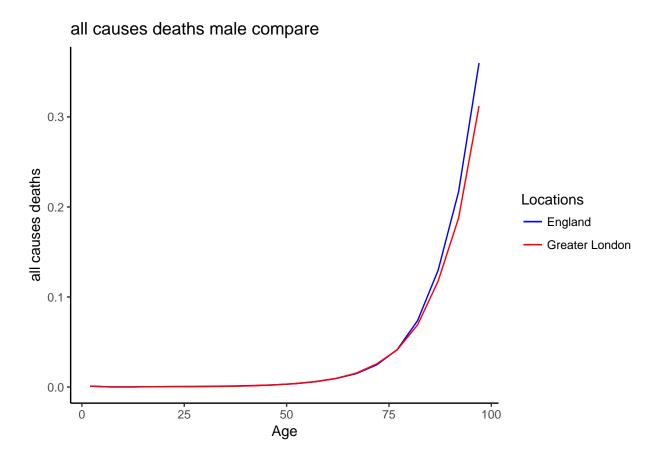


Figure 63: TRUE

##	\$da	ata									
##	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 64: TRUE

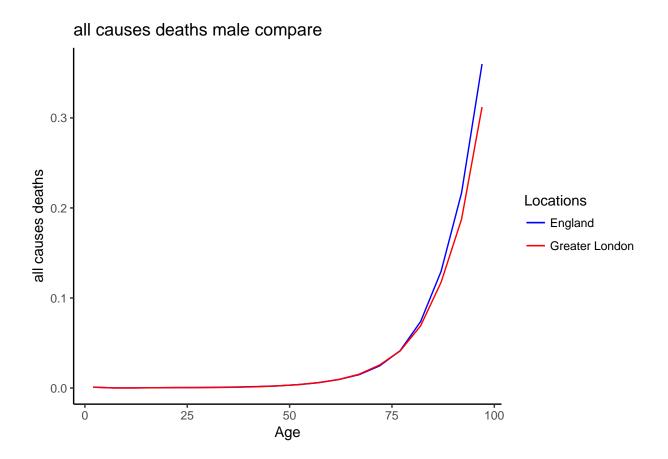


Figure 65: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

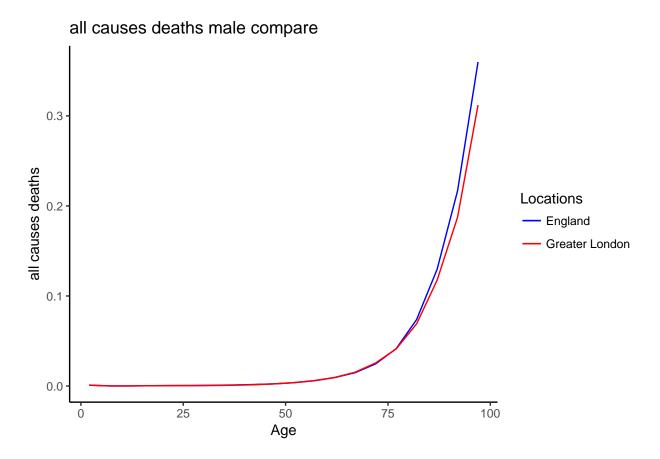


Figure 66: TRUE

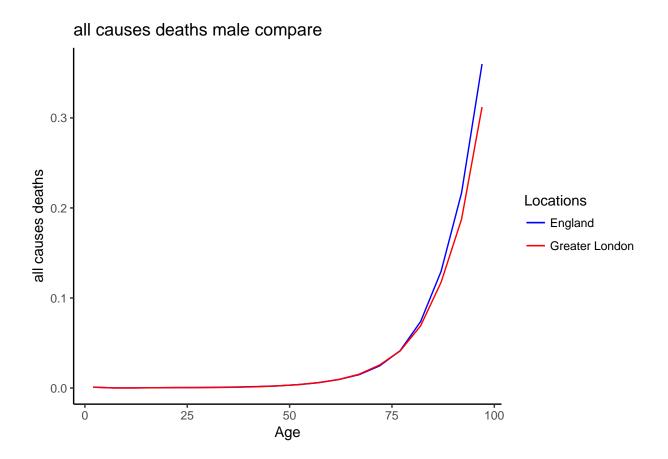


Figure 67: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
blue 82 0.07382320405
                                             0.5
## 17
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                               NA
                                           1
                                                         1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 68: TRUE

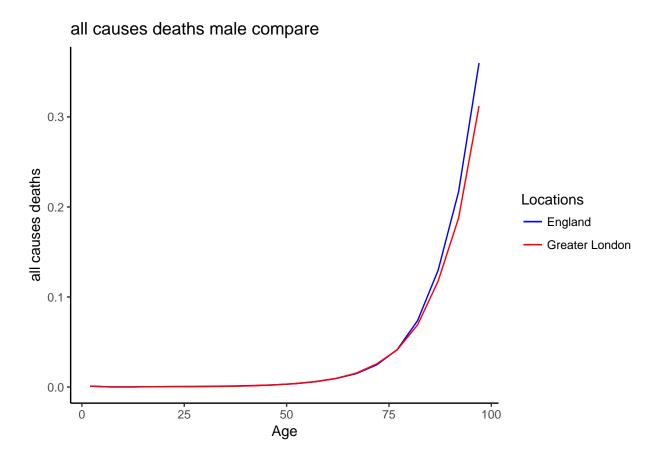


Figure 69: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                           1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

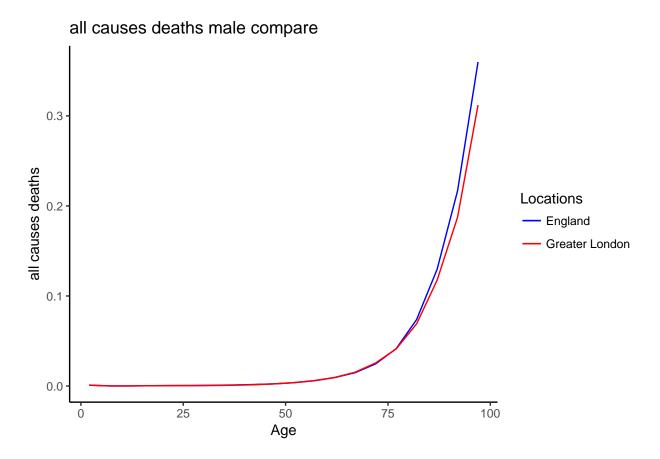


Figure 70: TRUE

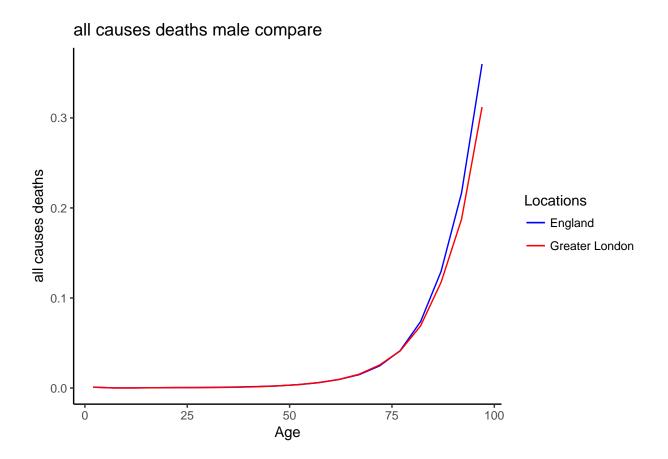


Figure 71: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 72: TRUE

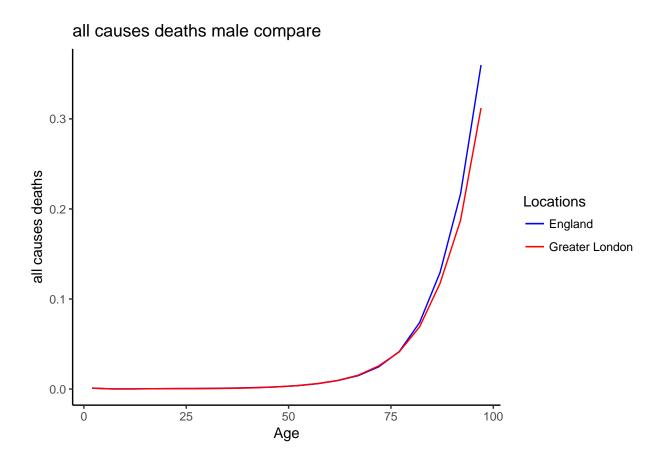


Figure 73: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 74: TRUE

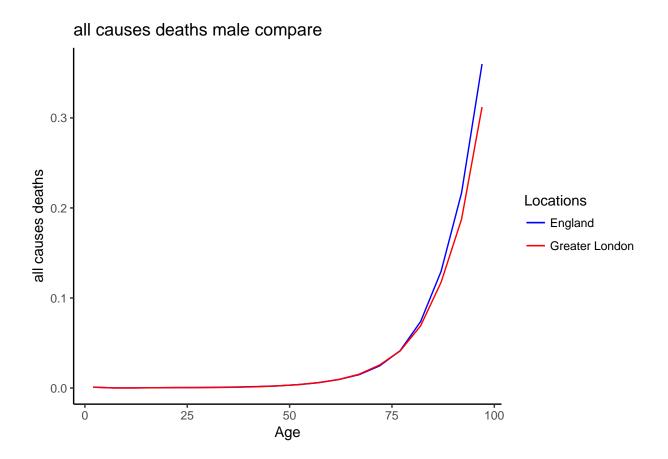


Figure 75: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                           1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                           1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

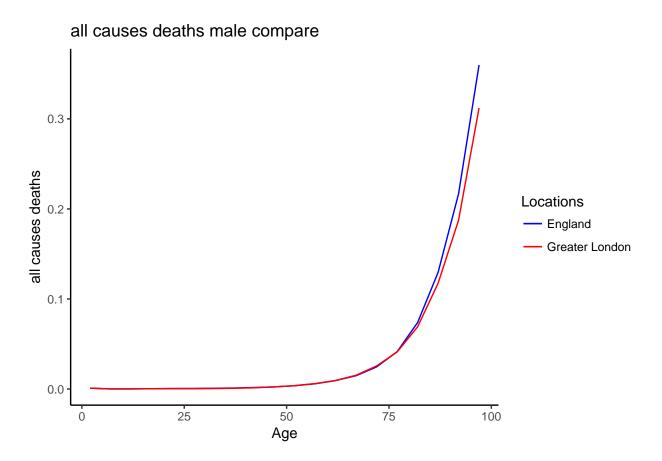


Figure 76: TRUE

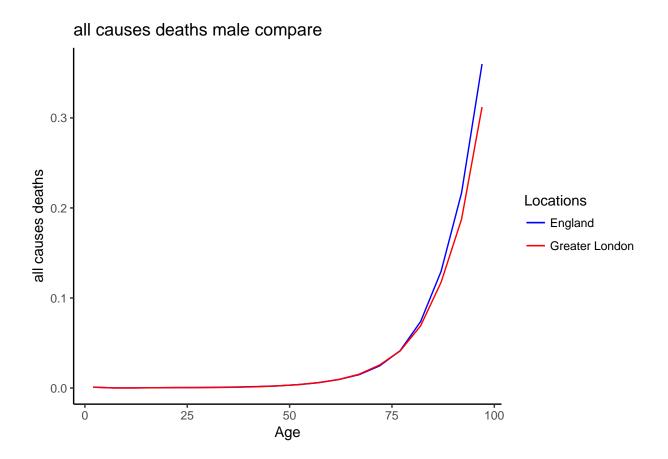


Figure 77: TRUE

##	\$da	ata							
##	\$da	ata[[1]]]						
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

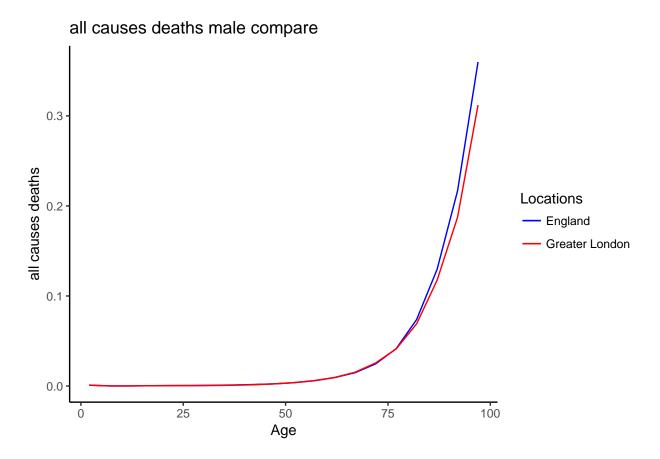


Figure 78: TRUE

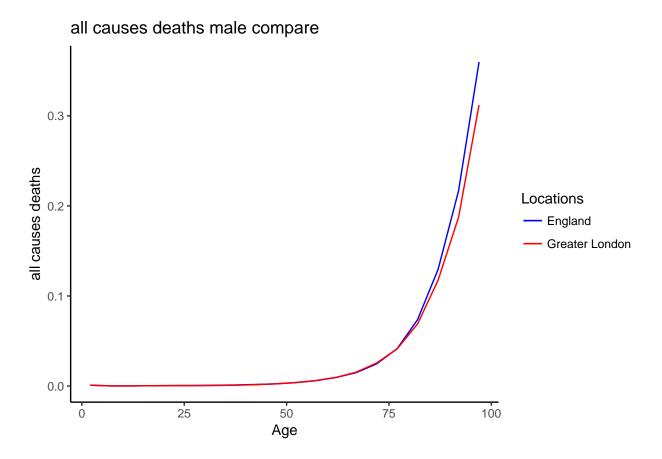


Figure 79: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

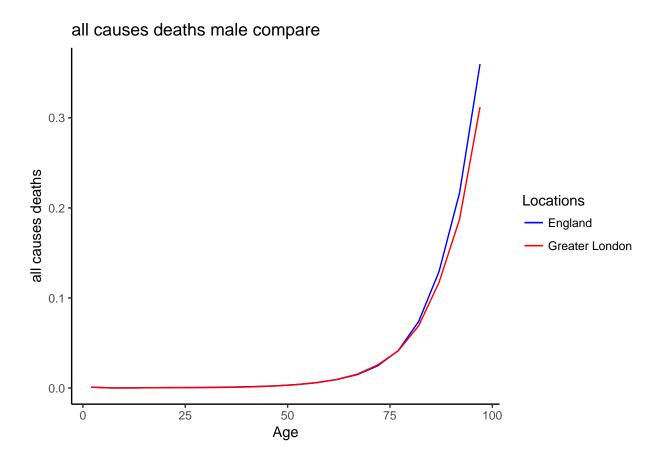


Figure 80: TRUE

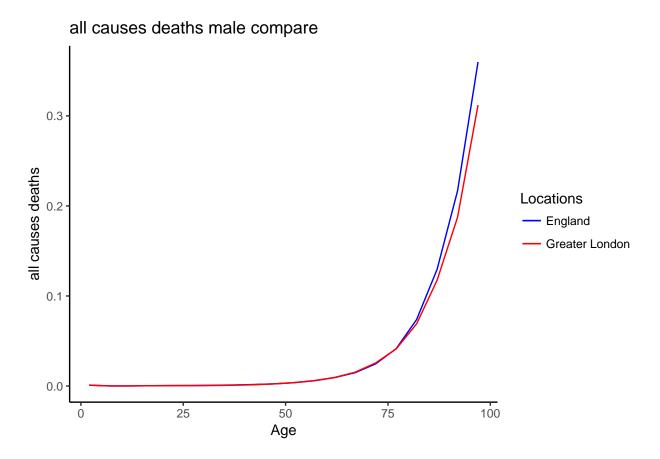


Figure 81: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 82: TRUE

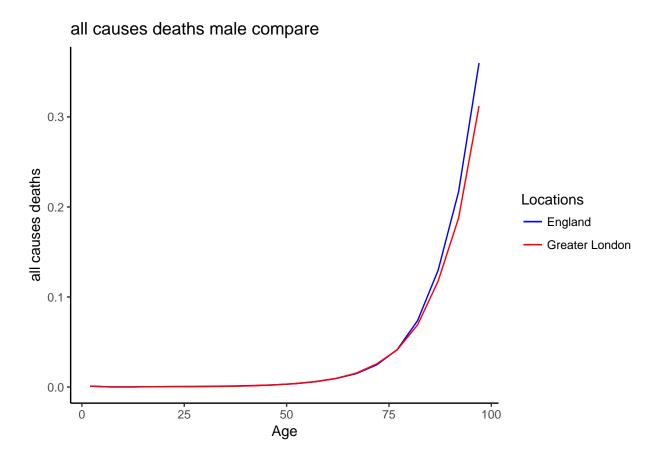


Figure 83: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                              NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
##
       ylabel: function
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 84: TRUE

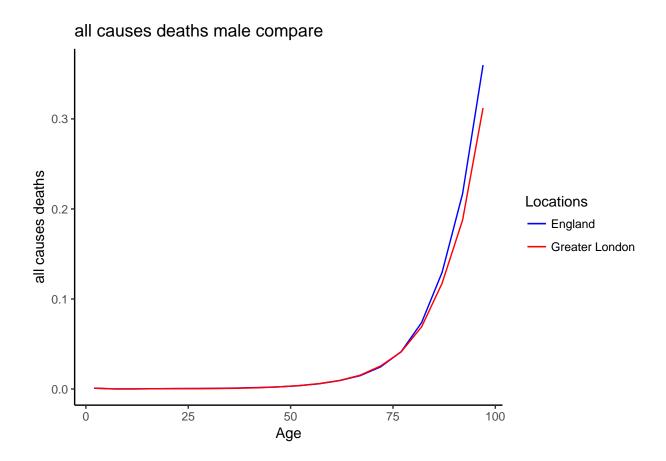


Figure 85: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                    1
                                             0.5
                                                         1
                                                               NA
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

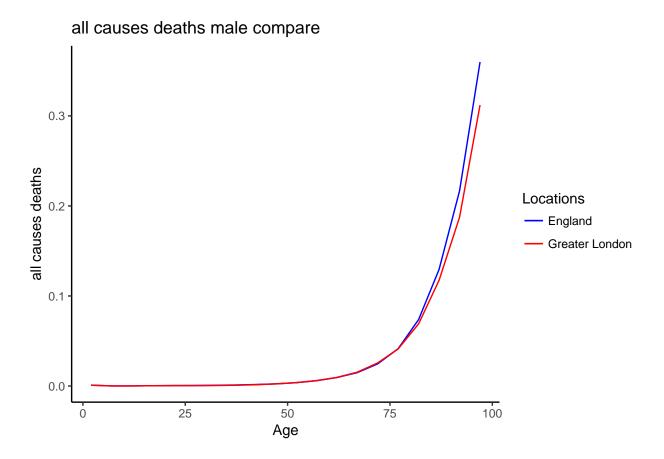


Figure 86: TRUE

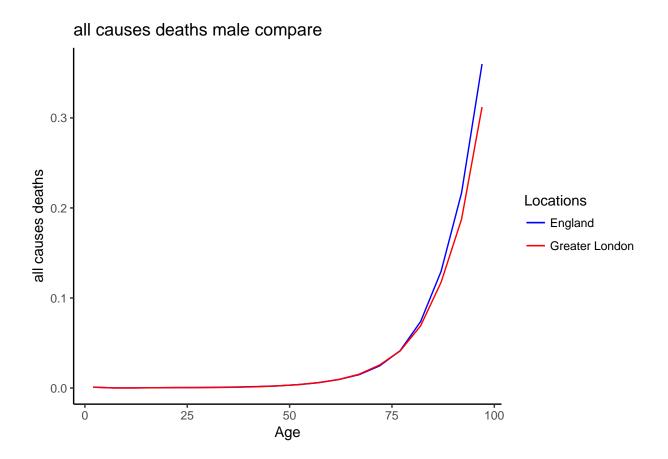


Figure 87: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	У	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                          1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 88: TRUE

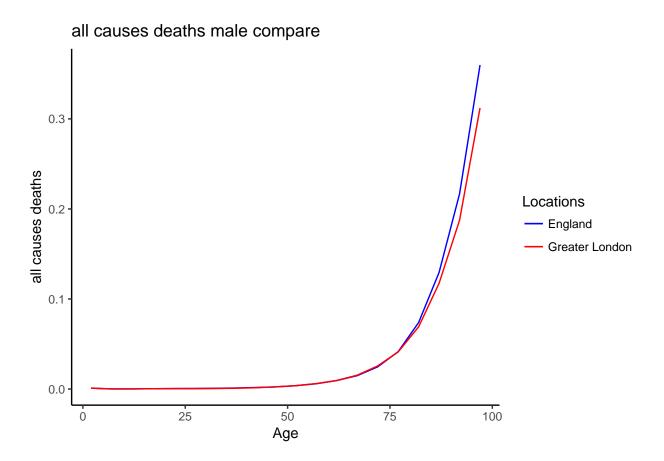


Figure 89: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	х	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 90: TRUE

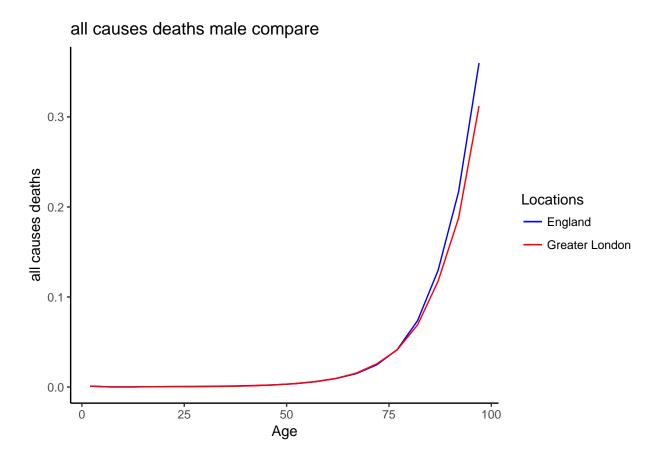


Figure 91: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                              NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                              NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                              NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                              NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                              NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 8
         red 37 0.00084923917
                                             0.5
                                                              NA
## 9
         red 42 0.00138109639
                                             0.5
                                    1
                                          1
                                                         1
                                                              NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                              NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
## 13
         red 62 0.00951177536
                                             0.5
                                                              NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                              NA
         red 72 0.02563687040
                                             0.5
                                                              NA
## 15
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                              NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                              NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                              NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                              NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                              NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

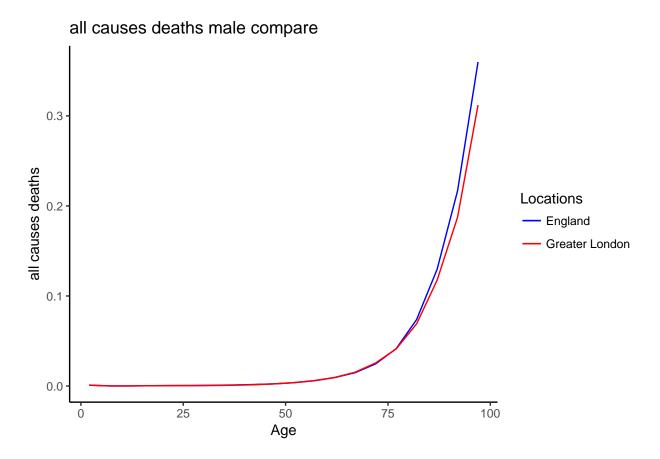


Figure 92: TRUE

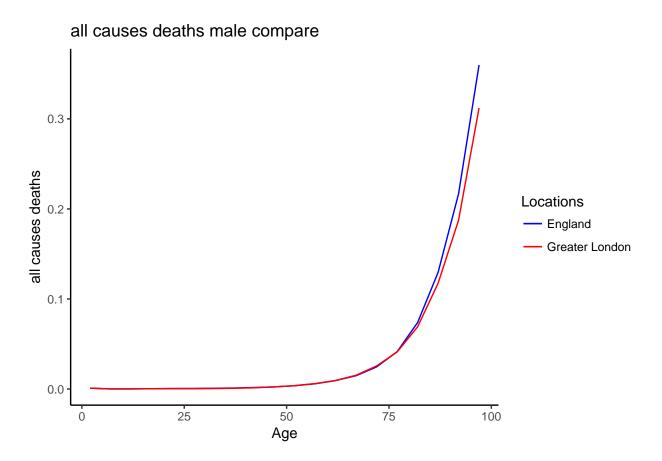


Figure 93: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 94: TRUE

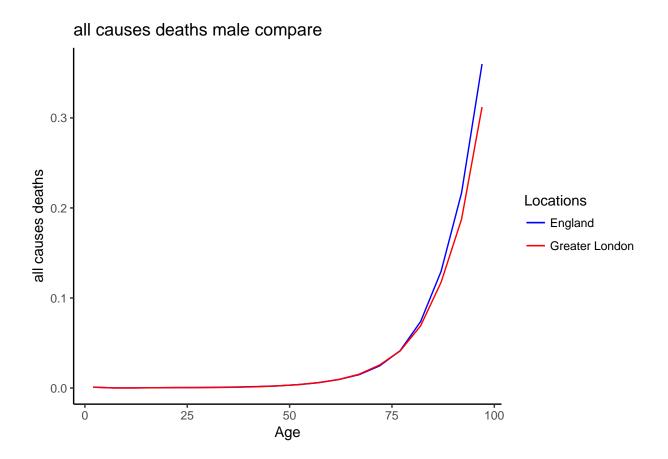


Figure 95: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

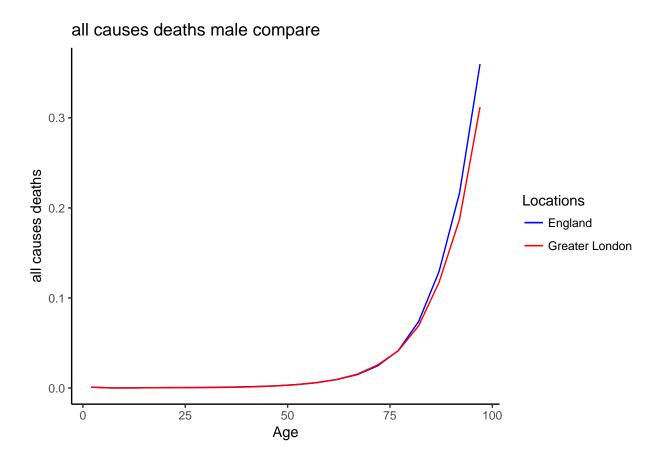


Figure 96: TRUE

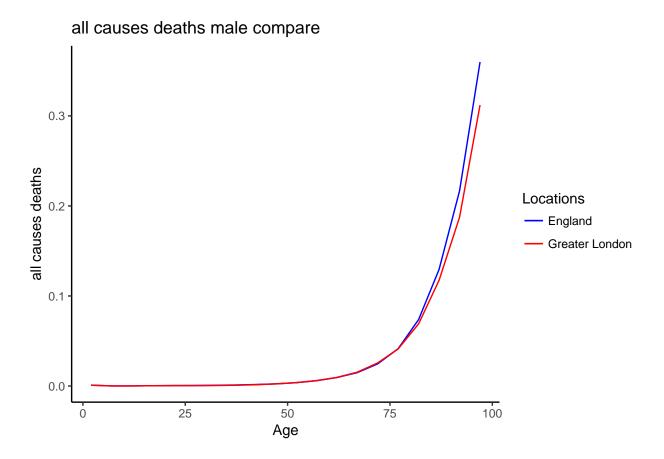


Figure 97: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

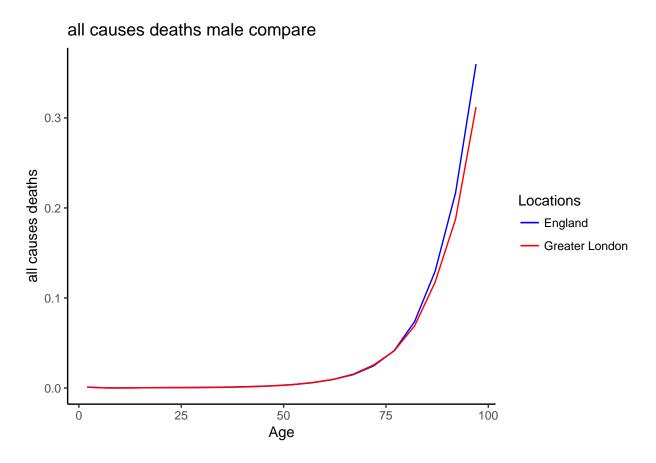


Figure 98: TRUE

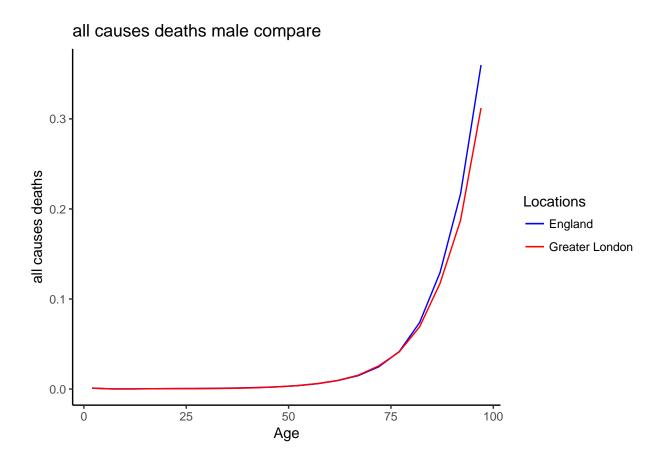


Figure 99: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
blue 82 0.07382320405
                                              0.5
## 17
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                              0.5
                                                          1
                                                               NA
##
## $data[[2]]
##
      colour
                              y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                              0.5
                                                          1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                              0.5
                                                          1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 8
         red 37 0.00084923917
                                              0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                              0.5
                                                          1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                              0.5
                                                          1
                                                               NA
## 13
         red 62 0.00951177536
                                              0.5
                                                               NA
                                    1
                                          1
                                                          1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                              0.5
                                                          1
                                                               NA
         red 72 0.02563687040
                                              0.5
                                                               NA
## 15
                                    1
                                           1
                                                          1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                          1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                              0.5
                                                          1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                          1
                                                               NA
## 19
         red 92 0.18753877934
                                              0.5
                                                          1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                              0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 100: TRUE

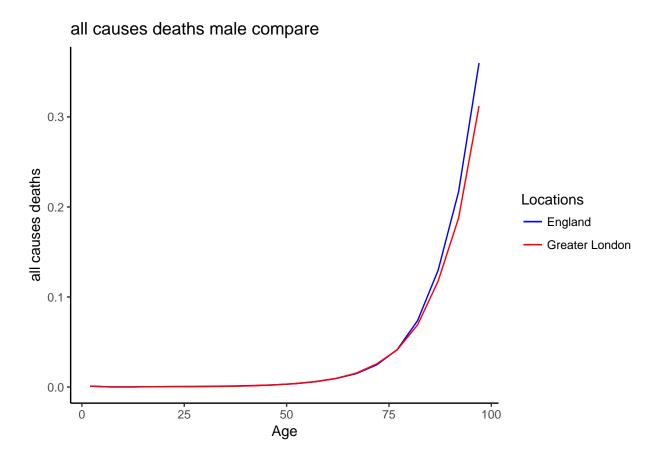


Figure 101: TRUE

##	\$da	ata							
##	\$da	ata[[1]]							
##		colour	x	у	PANEL	group	size	linetype	alpha
##	1	blue	2	0.00101402196	1	1	0.5	1	NA
##	2	blue	7	0.00008654044	1	1	0.5	1	NA
##	3	blue	12	0.00010135338	1	1	0.5	1	NA
##	4	blue	17	0.00032174108	1	1	0.5	1	NA
##	5	blue	22	0.00050592257	1	1	0.5	1	NA
##	6	blue	27	0.00059452223	1	1	0.5	1	NA
##	7	blue	32	0.00078365038	1	1	0.5	1	NA
##	8	blue	37	0.00111705924	1	1	0.5	1	NA
##	9	blue	42	0.00163481609	1	1	0.5	1	NA
##	10	blue	47	0.00238141575	1	1	0.5	1	NA
##	11	blue	52	0.00366957609	1	1	0.5	1	NA
##	12	blue	57	0.00586912782	1	1	0.5	1	NA
##	13	blue	62	0.00941032149	1	1	0.5	1	NA
##	14	blue	67	0.01484988622	1	1	0.5	1	NA
##	15	blue	72	0.02461984672	1	1	0.5	1	NA
##	16	blue	77	0.04147476287	1	1	0.5	1	NA

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                          1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 102: TRUE

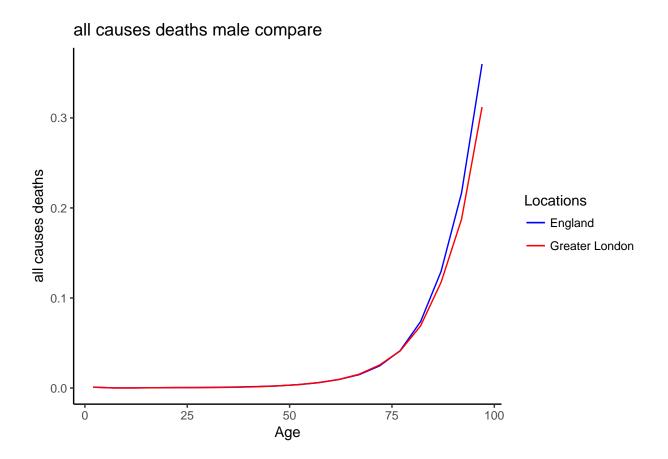


Figure 103: TRUE

##	\$da	ata										
##	\$da	\$data[[1]]										
##		colour	x	У	PANEL	group	size	linetype	alpha			
##	1	blue	2	0.00101402196	1	1	0.5	1	NA			
##	2	blue	7	0.00008654044	1	1	0.5	1	NA			
##	3	blue	12	0.00010135338	1	1	0.5	1	NA			
##	4	blue	17	0.00032174108	1	1	0.5	1	NA			
##	5	blue	22	0.00050592257	1	1	0.5	1	NA			
##	6	blue	27	0.00059452223	1	1	0.5	1	NA			
##	7	blue	32	0.00078365038	1	1	0.5	1	NA			
##	8	blue	37	0.00111705924	1	1	0.5	1	NA			
##	9	blue	42	0.00163481609	1	1	0.5	1	NA			
##	10	blue	47	0.00238141575	1	1	0.5	1	NA			
##	11	blue	52	0.00366957609	1	1	0.5	1	NA			
##	12	blue	57	0.00586912782	1	1	0.5	1	NA			
##	13	blue	62	0.00941032149	1	1	0.5	1	NA			
##	14	blue	67	0.01484988622	1	1	0.5	1	NA			
##	15	blue	72	0.02461984672	1	1	0.5	1	NA			
##	16	blue	77	0.04147476287	1	1	0.5	1	NA			

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

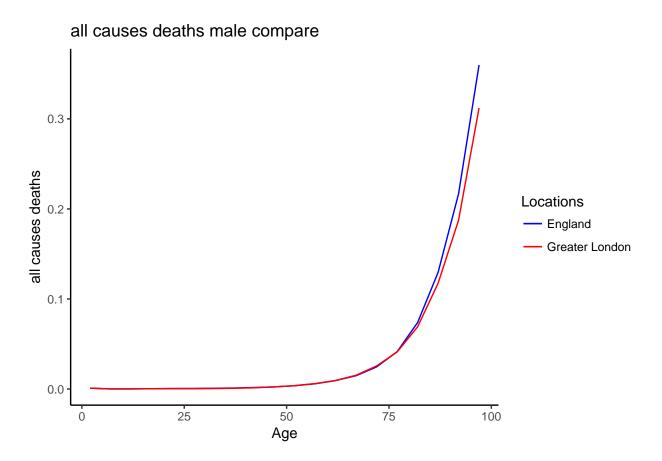


Figure 104: TRUE

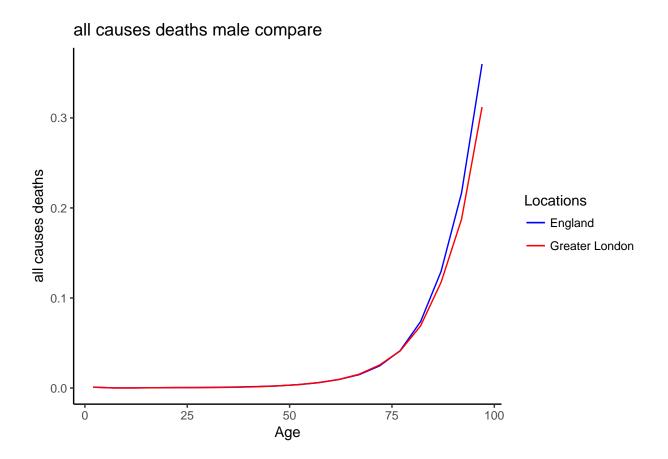


Figure 105: TRUE

##	\$da	ata									
##	\$data[[1]]										
##		colour	x	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                           1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                           1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 106: TRUE

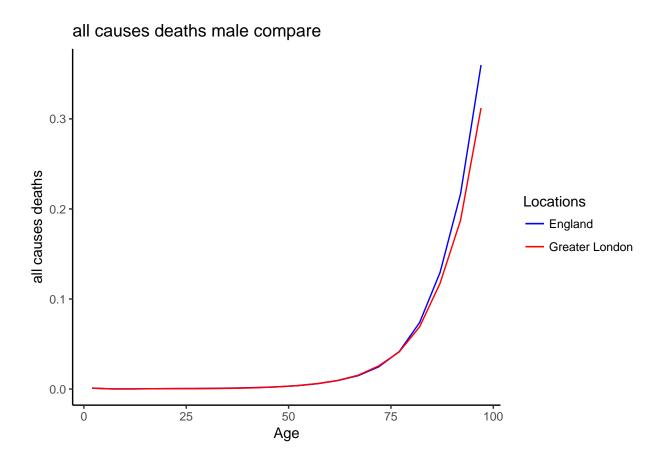


Figure 107: TRUE

##	\$da	ata									
##	\$da	\$data[[1]]									
##		colour	x	У	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                           1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```



Figure 108: TRUE

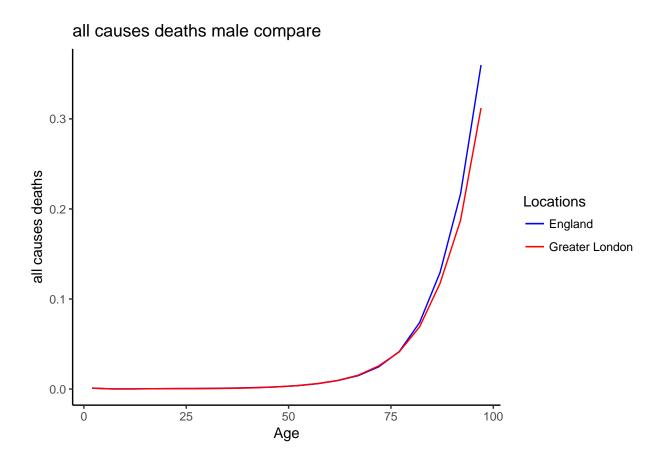


Figure 109: TRUE

##	\$da	ata									
##	\$da	\$data[[1]]									
##		colour	x	У	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

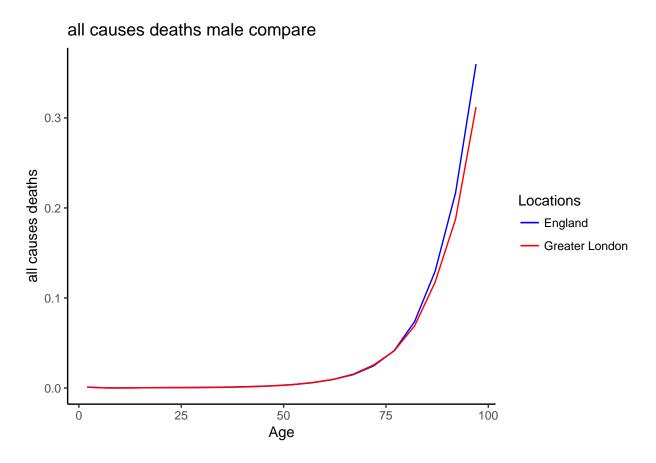


Figure 110: TRUE

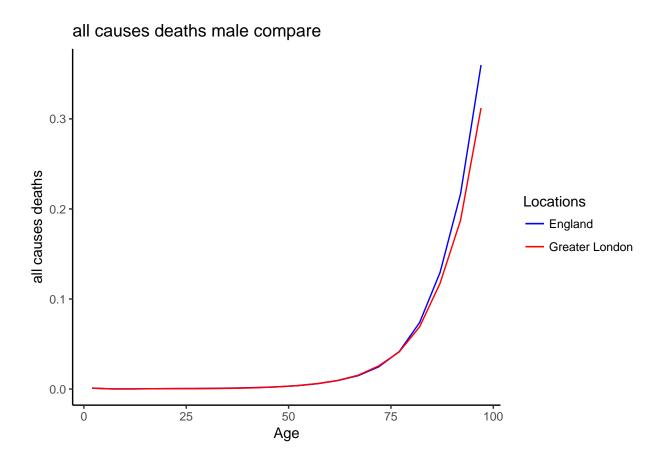


Figure 111: TRUE

##	\$da	ata								
##	\$data[[1]]									
##		colour	х	у	PANEL	group	size	linetype	alpha	
##	1	blue	2	0.00101402196	1	1	0.5	1	NA	
##	2	blue	7	0.00008654044	1	1	0.5	1	NA	
##	3	blue	12	0.00010135338	1	1	0.5	1	NA	
##	4	blue	17	0.00032174108	1	1	0.5	1	NA	
##	5	blue	22	0.00050592257	1	1	0.5	1	NA	
##	6	blue	27	0.00059452223	1	1	0.5	1	NA	
##	7	blue	32	0.00078365038	1	1	0.5	1	NA	
##	8	blue	37	0.00111705924	1	1	0.5	1	NA	
##	9	blue	42	0.00163481609	1	1	0.5	1	NA	
##	10	blue	47	0.00238141575	1	1	0.5	1	NA	
##	11	blue	52	0.00366957609	1	1	0.5	1	NA	
##	12	blue	57	0.00586912782	1	1	0.5	1	NA	
##	13	blue	62	0.00941032149	1	1	0.5	1	NA	
##	14	blue	67	0.01484988622	1	1	0.5	1	NA	
##	15	blue	72	0.02461984672	1	1	0.5	1	NA	
##	16	blue	77	0.04147476287	1	1	0.5	1	NA	

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                          1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
      colour x
##
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 6
         red 27 0.00043791898
                                    1
                                          1
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
                                             0.5
         red 42 0.00138109639
                                    1
                                          1
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 11
         red 52 0.00377558912
                                    1
                                                               NA
         red 57 0.00601481669
## 12
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                          1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                          1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                          1 0.5
## 18
                                    1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                          1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
##
           render_back: function
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
       train_ranges: function
##
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
```

\$plot



Figure 112: TRUE

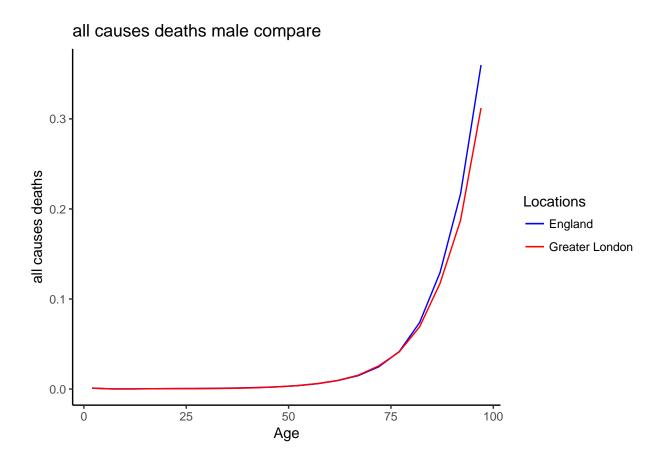


Figure 113: TRUE

##	\$da	ata									
##	\$da	\$data[[1]]									
##		colour	х	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
         red 87 0.11747458333
                                             0.5
## 18
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
```

\$plot

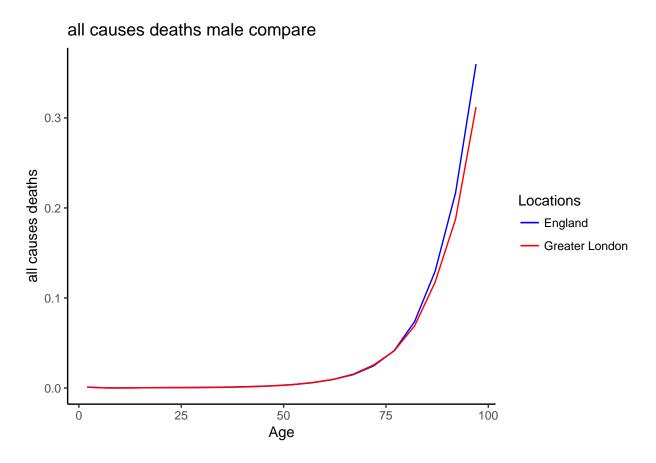


Figure 114: TRUE

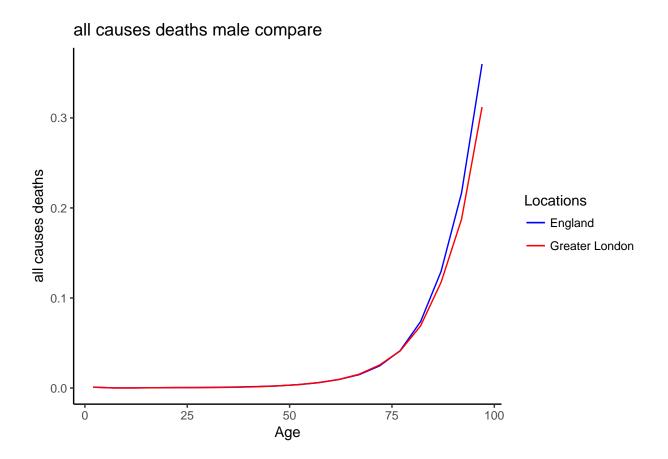


Figure 115: TRUE

##	\$da	ata									
##	\$da	\$data[[1]]									
##		colour	х	у	PANEL	group	size	linetype	alpha		
##	1	blue	2	0.00101402196	1	1	0.5	1	NA		
##	2	blue	7	0.00008654044	1	1	0.5	1	NA		
##	3	blue	12	0.00010135338	1	1	0.5	1	NA		
##	4	blue	17	0.00032174108	1	1	0.5	1	NA		
##	5	blue	22	0.00050592257	1	1	0.5	1	NA		
##	6	blue	27	0.00059452223	1	1	0.5	1	NA		
##	7	blue	32	0.00078365038	1	1	0.5	1	NA		
##	8	blue	37	0.00111705924	1	1	0.5	1	NA		
##	9	blue	42	0.00163481609	1	1	0.5	1	NA		
##	10	blue	47	0.00238141575	1	1	0.5	1	NA		
##	11	blue	52	0.00366957609	1	1	0.5	1	NA		
##	12	blue	57	0.00586912782	1	1	0.5	1	NA		
##	13	blue	62	0.00941032149	1	1	0.5	1	NA		
##	14	blue	67	0.01484988622	1	1	0.5	1	NA		
##	15	blue	72	0.02461984672	1	1	0.5	1	NA		
##	16	blue	77	0.04147476287	1	1	0.5	1	NA		

```
## 17
        blue 82 0.07382320405
                                             0.5
                                                               NA
## 18
        blue 87 0.12955140620
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 19
        blue 92 0.21683705416
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 20
        blue 97 0.35982913992
                                           1
                                             0.5
                                                         1
                                                               NA
##
## $data[[2]]
##
      colour
                             y PANEL group size linetype alpha
## 1
         red 2 0.00088290978
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 2
         red 7 0.00009264618
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 3
         red 12 0.00008731911
                                           1
                                             0.5
                                                         1
                                                               NA
## 4
         red 17 0.00032146988
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 5
         red 22 0.00045482322
                                          1
                                             0.5
                                                         1
                                                               NA
## 6
         red 27 0.00043791898
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 7
         red 32 0.00054821102
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 8
         red 37 0.00084923917
                                             0.5
                                                               NA
## 9
         red 42 0.00138109639
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 10
         red 47 0.00232329275
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
## 11
         red 52 0.00377558912
                                    1
                                             0.5
                                                         1
                                                               NA
## 12
         red 57 0.00601481669
                                    1
                                           1
                                             0.5
                                                         1
                                                               NA
## 13
         red 62 0.00951177536
                                             0.5
                                                               NA
                                    1
                                          1
                                                         1
## 14
         red 67 0.01536409192
                                    1
                                          1
                                             0.5
                                                         1
                                                               NA
         red 72 0.02563687040
                                             0.5
                                                               NA
## 15
                                    1
                                           1
                                                         1
                                             0.5
## 16
         red 77 0.04120637418
                                    1
                                                         1
                                                               NA
                                           1
## 17
         red 82 0.06907934486
                                          1
                                             0.5
                                                         1
                                                               NA
                                             0.5
## 18
         red 87 0.11747458333
                                    1
                                           1
                                                         1
                                                               NA
## 19
         red 92 0.18753877934
                                             0.5
                                                         1
                                                               NA
                                    1
                                           1
## 20
         red 97 0.31208076856
                                             0.5
                                                               NA
##
##
## $layout
   <ggproto object: Class Layout>
##
##
       facet: <ggproto object: Class FacetNull, Facet>
##
           compute_layout: function
##
           draw_back: function
##
           draw_front: function
##
           draw_labels: function
           draw_panels: function
##
##
           finish_data: function
##
           init_scales: function
##
           map: function
##
           map_data: function
##
           params: list
           render_back: function
##
```

```
##
           render_front: function
##
           render_panels: function
##
           setup_data: function
           setup_params: function
##
           shrink: TRUE
##
##
           train: function
           train_positions: function
##
##
           train_scales: function
           vars: function
##
##
           super: <ggproto object: Class FacetNull, Facet>
##
       finish_data: function
##
       get_scales: function
##
       map: function
##
       map_position: function
       panel_layout: data.frame
##
       panel_ranges: list
##
       panel_scales: list
##
       render: function
##
       render labels: function
##
       reset_scales: function
##
##
       setup: function
       train_position: function
##
##
       train_ranges: function
##
       xlabel: function
       ylabel: function
##
##
       super: <ggproto object: Class Layout>
##
## $plot
```

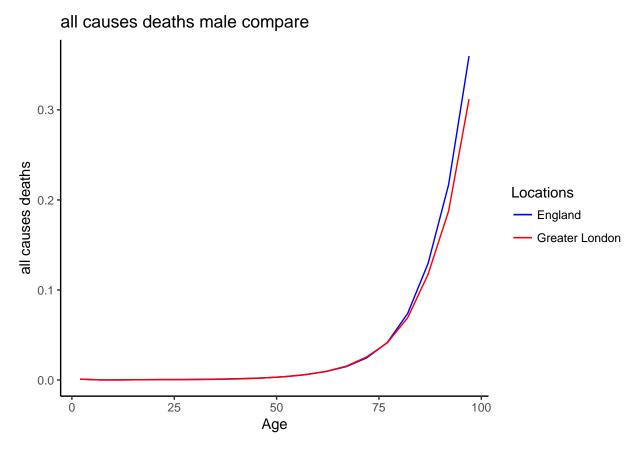


Figure 116: TRUE

Health outcomes included in leisure time meta-analysis: all-cause mortality, cardiovascular disease, stroke, coronary heart disease, total cancer, colon, lung, endometrial, and breast cancer.

${\bf 2.2.2.2} \quad {\bf Model \ parameters}$

3 Comments

3.1 Road injuries in the PMsLT

The disease model used in each of the disease life table is not directly applicable to road injuries, however, similar concept can be follow. Firstly, changes in road fatalities impact on the overall mortality rate, hence, by knowing the road fatality rates for baseline and scenarios, we will be able to incorporate changes to mortality attributable to road fatalities. For road injuries, methods developed by Kavi Bhalla and Marko Tanio (REFS) that derive the average YLD attributable to life long and short term injuries can be applied to derive the change in total YLDs (CHECK THAT THESE WERE DEVELOPED AS INCIDENCE YLDs).MT's methods assumes that injuries do not reduce the life expectancy of the injured person.

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