Title Placeholder

Load in Specific Packages

```
library(readr)
library(tidyr)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(here)
## here() starts at C:/Users/romin/ToyRepo
library(lemon)
## Warning: package 'lemon' was built under R version 4.4.2
library(kableExtra)
## Warning: package 'kableExtra' was built under R version 4.4.2
##
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
       group_rows
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.4.2
library(reshape())
## Warning: package 'reshape' was built under R version 4.4.2
##
## Attaching package: 'reshape'
## The following object is masked from 'package:dplyr':
##
##
       rename
## The following objects are masked from 'package:tidyr':
##
##
       expand, smiths
```

```
library(hexbin)
## Warning: package 'hexbin' was built under R version 4.4.2
library(data.table)
##
## Attaching package: 'data.table'
## The following object is masked from 'package:reshape':
##
##
       melt
## The following objects are masked from 'package:dplyr':
##
##
       between, first, last
library(GGally)
## Warning: package 'GGally' was built under R version 4.4.2
## Registered S3 method overwritten by 'GGally':
     method from
##
     +.gg
            ggplot2
library(formattable)
## Warning: package 'formattable' was built under R version 4.4.2
library(viridis)
## Warning: package 'viridis' was built under R version 4.4.2
## Loading required package: viridisLite
Load in the data
cancerReg <- read.csv("C:\\Users\\romin\\ToyRepo\\Models\\cancerReg.csv")</pre>
```

Remove Uncessary Data for Analysis

```
cancerReg <- cancerReg %>% select(-period,-area_type,-type_definition,-indicator, -upper_confidence_int
cancerReg
```

```
##
       area_code
                                   area_name year measure
## 1
      S08000015
                        NHS Ayrshire & Arran 2003
                                                    649.7
## 2
      S08000016
                                 NHS Borders 2003
                                                    614.6
## 3
      S08000017
                     NHS Dumfries & Galloway 2003
                                                    620.5
## 4
      S08000019
                            NHS Forth Valley 2003
                                                    651.8
## 5
      S08000020
                                NHS Grampian 2003
                                                    617.8
## 6
      S08000022
                                NHS Highland 2003
                                                    602.9
## 7
      S08000024
                                 NHS Lothian 2003
                                                    655.1
## 8
      S08000025
                                  NHS Orkney 2003
                                                    589.0
## 9
                                                    616.0
      S08000026
                                NHS Shetland 2003
## 10 S08000028
                           NHS Western Isles 2003
                                                    652.0
## 11 S08000029
                                    NHS Fife 2003
                                                    611.4
## 12 S08000030
                                 NHS Tayside 2003
                                                    611.2
## 13 S08000031 NHS Greater Glasgow & Clyde 2003
                                                    697.3
```

```
## 14
       S08000032
                              NHS Lanarkshire 2003
                                                       633.7
## 15
       S08000015
                         NHS Ayrshire & Arran 2004
                                                       642.8
                                   NHS Borders 2004
##
  16
       S08000016
                                                       616.8
##
  17
                      NHS Dumfries & Galloway 2004
                                                       645.2
       S08000017
##
   18
       S08000019
                             NHS Forth Valley 2004
                                                       648.2
##
  19
                                  NHS Grampian 2004
       S08000020
                                                       601.5
## 20
                                  NHS Highland 2004
       S08000022
                                                       594.5
## 21
       S08000024
                                   NHS Lothian 2004
                                                       660.8
##
  22
       S08000025
                                    NHS Orkney 2004
                                                       582.4
##
  23
       S08000026
                                  NHS Shetland 2004
                                                       636.7
   24
       S08000028
                            NHS Western Isles 2004
                                                       628.1
##
  25
                                      NHS Fife 2004
       S08000029
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##
   26
       S08000030
                                   NHS Tayside 2004
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   27
##
       S08000031 NHS Greater Glasgow & Clyde 2004
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##
  28
                                                       632.7
       S08000032
                              NHS Lanarkshire 2004
##
  29
       S08000015
                         NHS Ayrshire & Arran 2005
                                                       631.6
##
  30
       S08000016
                                   NHS Borders 2005
                                                       632.7
##
   31
       S08000017
                      NHS Dumfries & Galloway 2005
                                                       639.4
##
  32
       S08000019
                             NHS Forth Valley 2005
                                                       642.8
##
  33
       S08000020
                                  NHS Grampian 2005
                                                       589.7
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   34
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                                 NHS Highland 2005
                                                       598.9
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                                   NHS Lothian 2005
                                                       659.4
## 36
                                    NHS Orkney 2005
                                                       587.1
       S08000025
   37
                                 NHS Shetland 2005
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       S08000026
                                                       571.8
  38
       S08000028
##
                            NHS Western Isles 2005
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   39
       S08000029
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                                                       630.7
##
   40
                                   NHS Tayside 2005
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       S08000030
##
   41
       S08000031 NHS Greater Glasgow & Clyde 2005
                                                       695.0
##
  42
       S08000032
                              NHS Lanarkshire 2005
                                                       643.5
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  43
       S08000015
                         NHS Ayrshire & Arran 2006
                                                       626.1
## 44
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                                   NHS Borders 2006
                                                       641.5
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  45
       S08000017
                      NHS Dumfries & Galloway 2006
                                                       642.1
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   46
       S08000019
                             NHS Forth Valley 2006
                                                       618.3
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                                  NHS Grampian 2006
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       S08000020
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   48
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                                                       613.3
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  49
                                   NHS Lothian 2006
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                                    NHS Orkney 2006
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## 51
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                                 NHS Shetland 2006
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## 52
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                            NHS Western Isles 2006
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                                   NHS Borders 2007
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## 59
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                      NHS Dumfries & Galloway 2007
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                             NHS Forth Valley 2007
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                                  NHS Grampian 2007
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  62
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                                  NHS Highland 2007
                                                       627.4
##
   63
       S08000024
                                   NHS Lothian 2007
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       S08000025
                                    NHS Orkney 2007
                                                       587.4
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                                                       562.6
## 66
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S08000030
                                  NHS Tayside 2007
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       S08000031 NHS Greater Glasgow & Clyde 2007
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  71
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  73
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## 122 S08000028
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## 155 S08000015
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## 172 S08000019
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## 175 S08000024
                                  NHS Lothian 2015
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## 176 S08000025
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## 177 S08000026
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                                     NHS Fife 2015
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## 180 S08000030
                                  NHS Tayside 2015
                                                      632.1
## 181 S08000031 NHS Greater Glasgow & Clyde 2015
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                              NHS Lanarkshire 2015
## 182 S08000032
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## 183 S08000015
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## 184 S08000016
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                     NHS Dumfries & Galloway 2016
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## 186 S08000019
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## 187 S08000020
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## 188 S08000022
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## 189 S08000024
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## 191 S08000026
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## 192 S08000028
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## 193 S08000029
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## 194 S08000030
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## 195 S08000031 NHS Greater Glasgow & Clyde 2016
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## 196 S08000032
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## 198 S08000016
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## 199 S08000017
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## 200 S08000019
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## 201 S08000020
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                                                      637.4
## 202 S08000022
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                                                      598.8
## 203 S08000024
                                  NHS Lothian 2017
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## 204 S08000025
                                   NHS Orkney 2017
                                                      516.3
## 205 S08000026
                                 NHS Shetland 2017
                                                      696.2
## 206 S08000028
                            NHS Western Isles 2017
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## 207 S08000029
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## 208 S08000030
                                  NHS Tayside 2017
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## 209 S08000031 NHS Greater Glasgow & Clyde 2017
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                              NHS Lanarkshire 2017
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## 211 S08000015
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## 213 S08000017
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## 216 S08000022
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## 217 S08000024
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## 218 S08000025
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## 219 S08000026
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## 220 S08000028
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## 221 S08000029
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## 223 S08000031 NHS Greater Glasgow & Clyde 2018
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## 225 S08000015
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## 226 S08000016
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                                                      575.6
                     NHS Dumfries & Galloway 2019
## 227 S08000017
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## 228 S08000019
                            NHS Forth Valley 2019
                                                      643.7
## 229 S08000020
                                 NHS Grampian 2019
                                                      623.3
```

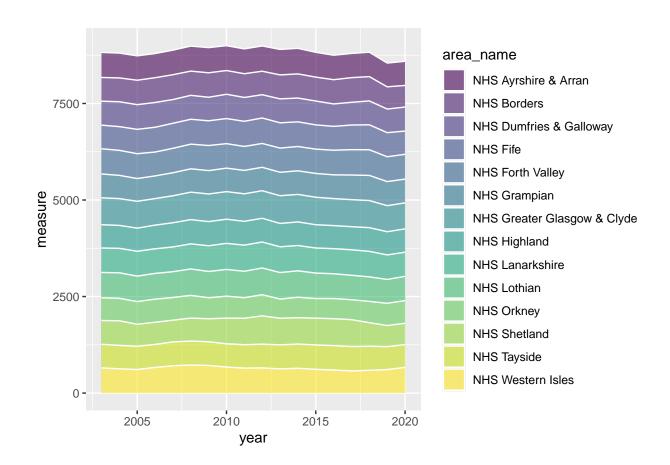
```
## 230 S08000022
                                NHS Highland 2019
                                                     600.8
## 231 S08000024
                                NHS Lothian 2019
                                                     617.5
## 232 S08000025
                                 NHS Orkney 2019
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## 233 S08000026
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## 234 S08000028
                           NHS Western Isles 2019
                                                     609.0
## 235 S08000029
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## 236 S08000030
                                 NHS Tayside 2019
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## 237 S08000031 NHS Greater Glasgow & Clyde 2019
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## 238 S08000032
                             NHS Lanarkshire 2019
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## 239 S08000015
                        NHS Ayrshire & Arran 2020
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## 240 S08000016
                                 NHS Borders 2020
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## 241 S08000017
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                            NHS Forth Valley 2020
## 242 S08000019
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## 243 S08000020
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## 244 S08000022
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## 245 S08000024
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## 246 S08000025
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## 247 S08000026
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## 248 S08000028
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## 251 S08000031 NHS Greater Glasgow & Clyde 2020
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## 252 S08000032
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## 253 S08000015
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## 254 S08000016
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## 255 S08000017
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## 264 S08000030
                                 NHS Tayside 2021
## 265 S08000031 NHS Greater Glasgow & Clyde 2021
                                                        NA
## 266 S08000032
                             NHS Lanarkshire 2021
```

Display Summary of All Data

(`stat_align()`).

```
# ggplot(cancerReg, aes(x=year, y= measure, col=area_name)) + geom_line() + geom_point()
# ggplot(cancerReg, aes(x=area_name, y=measure, fill=area_name)) + geom_violin()
# ggparcoord(data= cancerReg, columns = c(), groupColumn = "area_name")
# ggplot(cancerReg, aes(fill=year, y=measure, x=area_name)) + geom_bar(position = "stack", stat = "iden
ggplot(cancerReg, aes(x = year, y = measure, fill = area_name)) + geom_area(alpha=0.6, size=.5, colous scale_fill_viridis(discrete = T)

## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use `linewidth` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## Warning: Removed 14 rows containing non-finite outside the scale range
```



Summary Table of Data Within Graph

```
customGreen0 = "#DeF7E9"
customGreen = "#71CA97"
customRed = "#ff7f7f"
# colnames(healthBoardData)
# healthBoardData <- healthBoardData %>%
#
      mutate(
#
          Average = round(rowMeans(select(., starts_with("measure.")), na.rm = TRUE), 2),
### This one works for creating some weird random diff
# healthBoardData <- reshape(cancerReg, idvar = "area_name", timevar = "year", v.names = "measure", dir
# healthBoardData <- cancerReg %>%
#
      arrange(area_name, year) %>%
#
      group_by(area_name) %>%
      mutate(measure\_diff = c(NA, diff(measure)))
# healthBoardData
healthBoardData <- cancerReg %>% pivot_wider(names_from = year, values_from = measure)
healthBoardData <- healthBoardData %>%
```

```
##
##
      <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
                                                 <dbl>
                                                        <dbl>
                                                                <dbl>
## 1 NA
            NA
                  NA
                        NA
                               NA
                                     NA
                                            NA
                                                  NA
                                                         NA
## 2 -35.1
            -26
                   1.10 15.4
                               7.10 - 20.7
                                           -18.4 -29
                                                        -28.7
                                                               -45.8
## 3 5.90 28.4
                   6.70
                        0.600 - 30.1
                                    -7.70 -24.7
                                                 14.1
                                                         3.10
                                                               -5.80
## 4 31.3
            3
                   3.40 -23.8
                               19.8
                                    19.1
                                            40.7
                                                 5.20
                                                          2.70
                                                               14.6
## 5 -34
            -46.7 -53.1 -31.7
                              -37.3 -33.9
                                           -44.4 -25.6 -14.1
                                                               -10.5
## 6 -14.9
           -7
                  9.20 26.7
                                    22.6
                                            20.4 16.9
                                                               7.5
                             31.5
                                                       10.6
## 7 52.2 66.3 60.5 52.8
                             41.3
                                    55.8
                                            55.8 66.4
                                                       67.5
                                                               77.3
                                                       -153
## 8 -66.1 -78.4 -72.3 -68
                              -81.3 -94.1 -139. -123.
                                                              -142.
## 9 27
           54.3 -15.3 -23.8
                             -24.8
                                    5.60 53
                                                  94.2 154.
                                                               183.
                                                              -80.1
## 10 36
            -8.60 38.5 90.1
                             145.
                                                        -39.6
                                    131.
                                           119
                                                 11
## 11 -40.6 -14.1
                  20.4 - 22.7
                              -58.3 -82.1 -74.6 -24.4
                                                        5.30
                                                               7.80
## 12 -0.200 -6.70 -30.1 -45.7
                             -31.3 -22.8 -26.7 -46.9
                                                      -44.4
                                                              -43.3
                                    89.8 102.
## 13 86.1
            86.6
                  94.4 91.6
                               80.5
                                                 111.
                                                        105.
                                                               97.2
## 14 -63.6 -61.2 -51.5 -50.3 -57.6 -61.1 -49.8 -39.4
                                                       -34.8 -40.6
## # i 8 more variables: `2013` <dbl>, `2014` <dbl>, `2015` <dbl>, `2016` <dbl>,
## # `2017` <dbl>, `2018` <dbl>, `2019` <dbl>, `2020` <dbl>
```