

R Notebook

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code and some more code.

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.2.1 --
```

```
## v ggplot2 3.0.0      v purrr 0.2.5
## v tibble 1.4.2       v dplyr 0.7.7
## v tidyr 0.8.1        v stringr 1.3.1
## v readr 1.1.1        v forcats 0.3.0
```

```
## -- Conflicts ----- tidyverse conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(geojsonio)
```

##

```
## Attaching package: 'geojsonio'
```

```
## The following object is masked from 'package:base':
```

##

```
##      pretty
```

```
library(sf)
```

```
## Linking to GEOS 3.6.1, GDAL 2.1.3, proj.4 4.9.3
```

```
library(tmap)
```

```
library(tmaptools)
```

```
#read some data attributes
```

```
LondonData <- read_csv("https://files.datapress.com/london/dataset/ward-profiles-and-atlas/2015-09-24T14:00:00.000Z.csv")
```

```
## Parsed with column specification:
```

```
## cols(
```

```
## .default = col double(),
```

```
## `Ward name` = col character(),
```

```
## `Old code` = col character(),
```

```
## `New code` = col_character()
```

)

```
## See spec(...) for full column specifications.
```

```
#read some geometries
```

```
EW <- geojson_read("http://geoportal.statistics.gov.uk/datasets/8edafbe3276d4b56aec60991cbddda50_2.geoj
```

#pull out London

```
LondonMap <- EW[grep("^E09",EW@data$lad15cd),]
```

```
#convert to a simple features object
```

```
LondonMapSF <- st_as_sf(LondonMap)
```

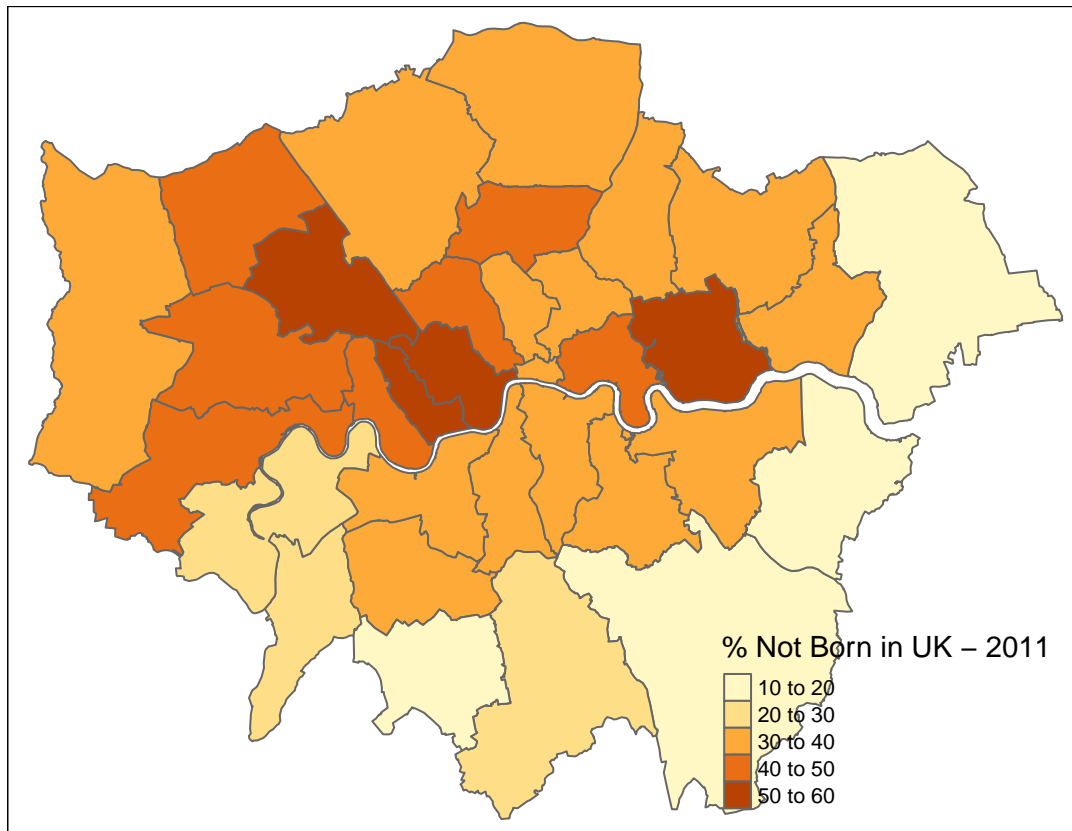
```
#append the data to the geometries
```

```
LondonMapSF <- append_data(LondonMapSF, LondonData, key.shp = "lad15cd", key.data = "New code", ignore.d
```

```
## Data contains duplicated keys: E09000001
```

```
## Over coverage: 626 out of 659 data records were not appended. Run over_coverage() to get the correspon
```

```
#plot a choropleth  
qtm(LondonMapSF, fill = "% Not Born in UK - 2011")
```



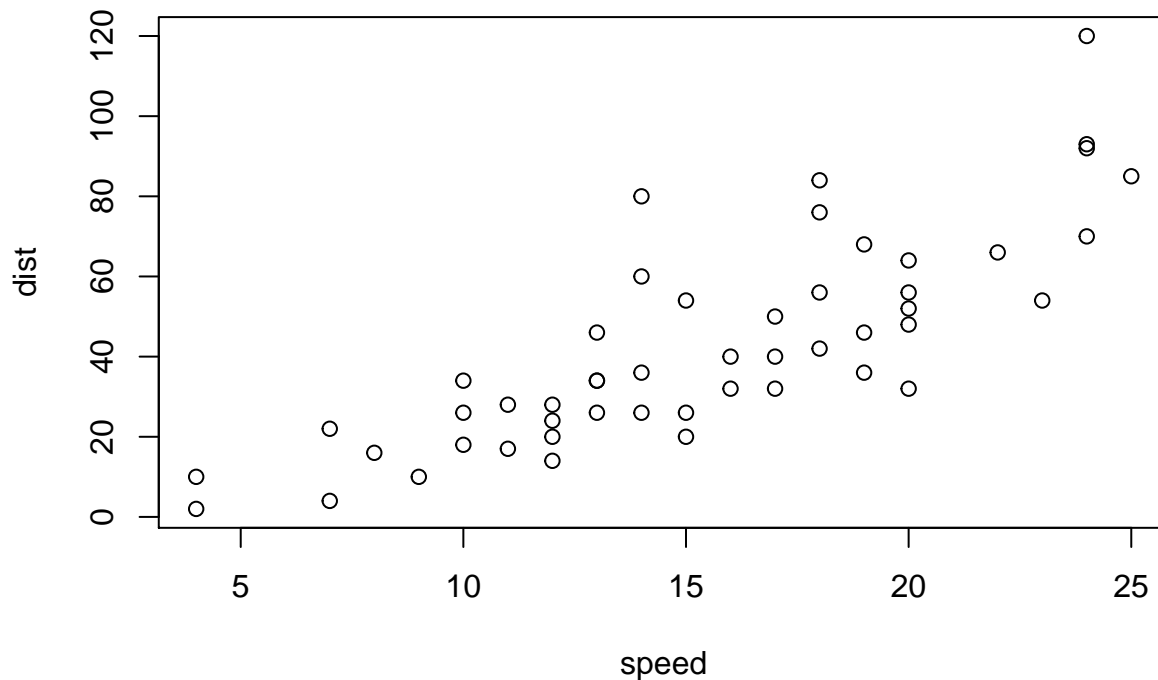
output: html_notebook

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Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Cmd+Shift+Enter*.

(ben, n.d.; hannah, n.d.)

```
plot(cars)
```



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ben, ben ben. n.d. *Hello.*

hannah, hannah, gumble. n.d. *Test2.*