## Title

#### insert 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 2.2.3, 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/2015-09-24T14:21:24/ward-profiles-excel-version.csv", na = "n/a")

## 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.geojson", what = "sp")  
#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.duplicates = TRUE)

## Data contains duplicated keys: E09000001

## Over coverage: 626 out of 659 data records were not appended. Run over\_coverage() to get the corresponding data row numbers and key values.

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

