# Getting Started with ipd\_2017

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## Before getting started

#### 1. Download the code.

There are two ways to do it:

- 1. From online, visit https://github.com/addisonlarson/ipd\_2017, click Clone or Download, save the ZIP file somewhere on your PC, and unzip it.
- 2. From Git BASH, clone the repository with https://github.com/addisonlarson/ipd\_2017.git or git@github.com:addisonlarson/ipd\_2017.git. The few lines of sample code below create a folder called "ipd" in My Documents and download the repository's contents there.

```
_ 0
MINGW64:/c/Users/alarson/Documents/ipd
alarson@ALarson01 MINGW64 ~ (master)
$ cd ~/Documents
alarson@ALarson01 MINGW64 ~/Documents (master)
$ mkdir ipd
alarson@ALarson01 MINGW64 ~/Documents (master)
$ cd ~/Documents/ipd
alarson@ALarson01 MINGW64 ~/Documents/ipd (master)
$ git clone https://github.com/addisonlarson/ipd_2017.git
Cloning into 'ipd_2017'...
remote: Enumerating objects: 200, done.
remote: Counting objects: 100% (200/200), done.
remote: Compressing objects: 100% (132/132), done.
remote: Total 200 (delta 108), reused 157 (delta 65), pack-reused 0
Receiving objects: 100% (200/200), 5.50 MiB | 4.54 MiB/s, done.
Resolving deltas: 100% (108/108), done.
alarson@ALarson01 MINGW64 ~/Documents/ipd (master)
```

#### 2. Download and install software.

- 1. Get R from https://www.r-project.org/.
- 2. Get RStudio from https://www.rstudio.com/products/rstudio/#Desktop.

## Next steps

Now that you have the code and software:

- 1. Open RStudio.
- 2. Open ipd\_2017.Rproj from File -> Open Project -> <Folder where you saved the repository>
   -> ipd\_2017.Rproj.
- 3. Open script.R.
- 4. Check that the input fields listed under Fields are up to date by verifying the newest data schemata on American FactFinder and Census Developers. Save any changes.
- 5. Check that the ACS data year is up to date under Year, and that States and Counties correspond to your desired study area. If you're updating IPD for the DVRPC region, then you won't need to touch States or Counties. Save any changes.

- 6. Run the code by clicking the Source button or Ctrl+A followed by Ctrl+Enter. If you see the error message Error in library(<name of package>): there is no package called '<name of package>', go to Package Dependencies below.
- 7. Outputs are saved in <Folder where you saved the repository>/outputs.

### Package dependencies

The error message Error in library (<name of package>): there is no package called '<name of package>' appears when the required packages aren't installed. script.R has five package dependencies:

```
library(plyr); library(here); library(sf); library(summarytools);
library(tidycensus); library(tidyverse); library(tigris)
```

It's easy to install packages. Open RStudio if it's not open already, go to the console (typically it's shown on the bottom of the screen), and type install.packages('<name of package>'). One package at a time; quotation marks required. You may have to do this seven times—once for each package—if you've never run R before.