Getting Started with `ipd_2017`

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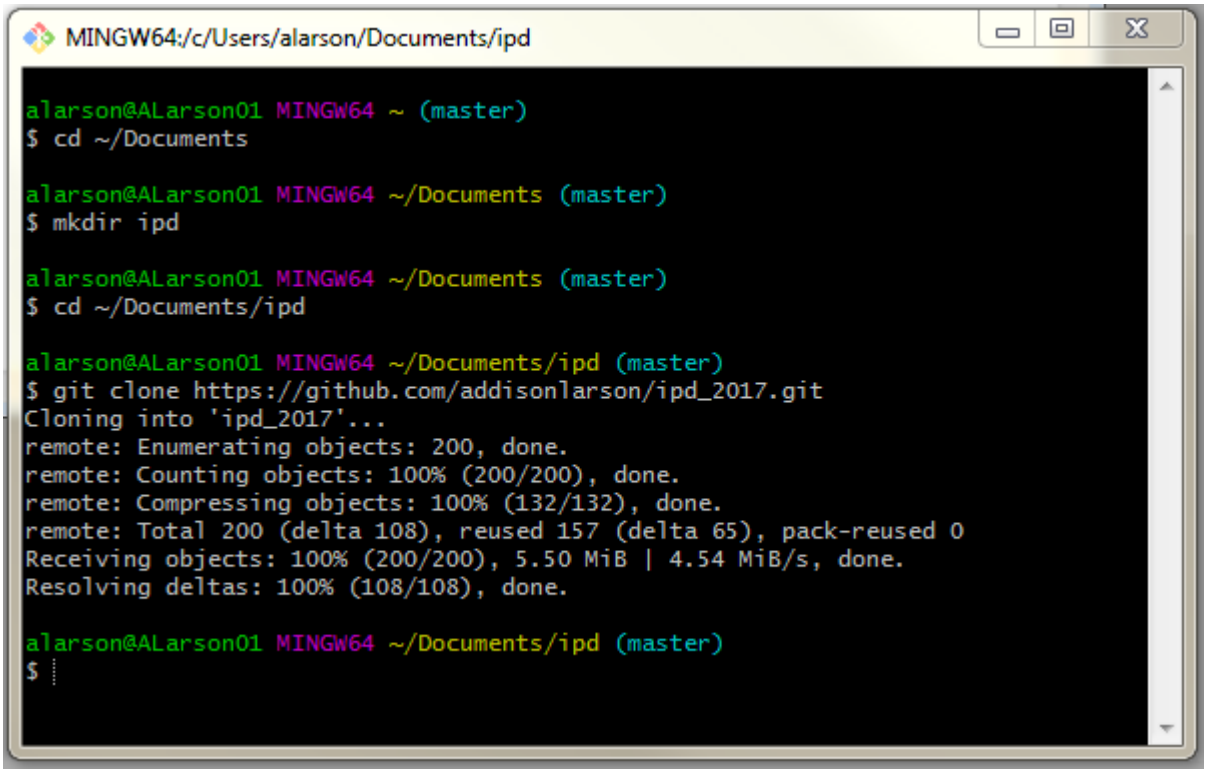
Before getting started

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.

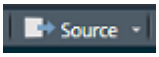


2. Download and install software.

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.
5. Check that the ACS data year is up to date under `Year`, e.g. `ipd_year <- 2011`.
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.