

Getting Started with ipd_2017

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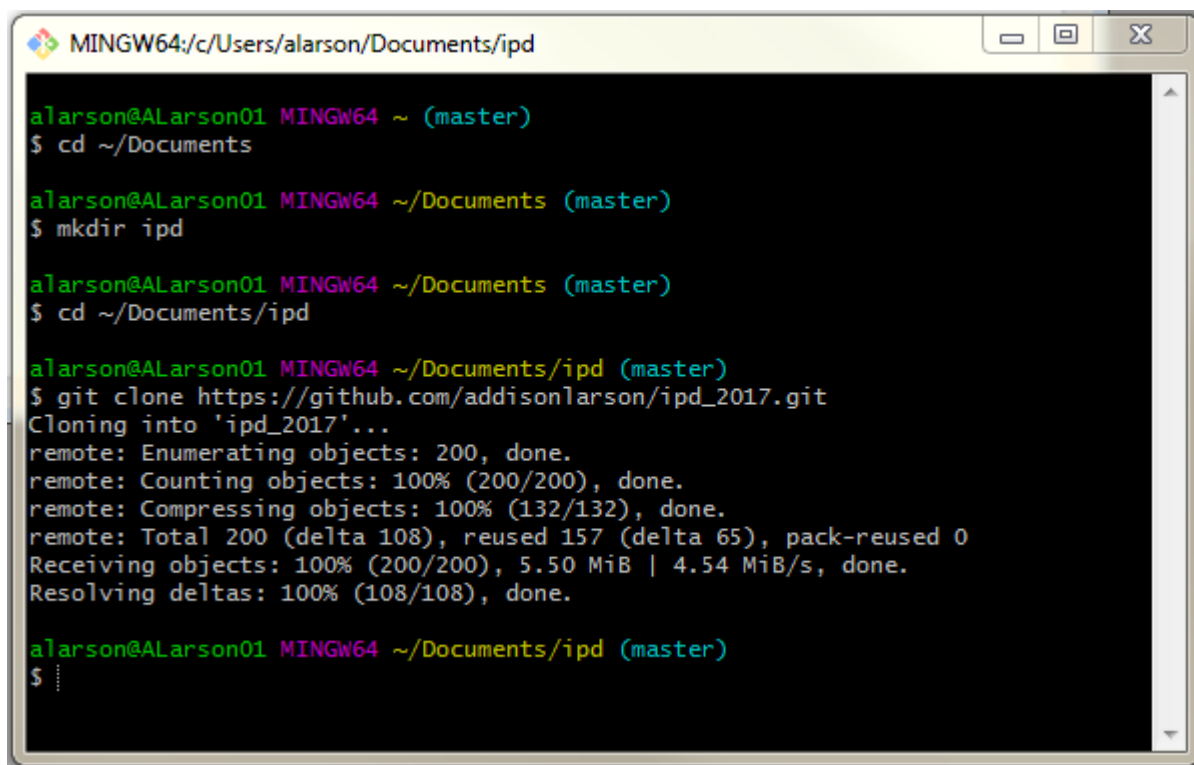
2/12/2019

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.



```
MINGW64:/c/Users/alarson/Documents/ipd

a\arson@ALarson01 MINGW64 ~ (master)
$ cd ~/Documents

a\arson@ALarson01 MINGW64 ~/Documents (master)
$ mkdir ipd

a\arson@ALarson01 MINGW64 ~/Documents (master)
$ cd ~/Documents/ipd

a\arson@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.

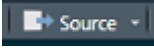
a\arson@ALarson01 MINGW64 ~/Documents/ipd (master)
$ .....
```

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.
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.