

# Getting Started

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## Installation

1. (Linux/Ubuntu)
  - a. Download tar.gz file for current version of PAT e.g. PAT\_0.5.tar.gz The package was built on Ubuntu/Linux. To install the package you need the gcc compiler to compile the one C routine. On Ubuntu to install gcc:  
``sudo apt-get install build-essential``
  - b. (Windows) Download zip file for current version of PAT e.g. PAT\_0.5.zip

## After download

2. Decide on and create the folder where you want to store files.
3. Create sub-folders/directories:
  - a. logs
  - b. data
  - c. output

## Setup Within R

### Once in an R session

1. (Windows)  
``install.packages(pkgs="path_to PAT_<vers>.zip",repos=NULL);``
2. (Ubuntu/Linux)  
``install.packages(pkgs="path_to PAT_<vers>.tar.gz",repos=NULL);``

## Initialization

1. `require(PAT)`
2. Set your census key `PAT.census.key("your_key_here")` You can get your census key at Census key request [https://api.census.gov/data/key\\_signup.html](https://api.census.gov/data/key_signup.html)
3. Set your root folder/directory `PAT.root("path_to_base_folder");`  
The default for the root folder is your working directory `getwd()` Your working folder/directory is probably not what you want unless you start R in your PAT folder/directory.
4. Optionally set nraces (number of race categories) for PUMS derived variables and Detail/Subject/DataProfile tables.
  - a. To see current value use `PAT.race.code()`
  - b. To change `PAT.race.code("new_value");`

- c. To see choices `help(PAT.race.code)`
- 5. Optionally set nages (number of ages categories) for PUMS derived variables and Detail/Subject/DataProfile tables.
  - a. To see current value use `PAT.age.code()`;
  - b. To change `PAT.age.code("new_value")`;
  - c. To see choices `help(PAT.age.code)`;
- 6. Check/Set other options:
  - a. `PAT.vintage()`
  - b. `PAT.period()`
  - c. `PAT.pums.vintage()`
  - d. `PAT.pums.period()`
  - e. `PAT.verbose()`

## Help Files

``help(package="PAT")``

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