

Pre-Workshop Setup



Dear R-Ladies Miami members:

For the upcoming Intro Hands-On Workshop next August 23rd you are required to install R, RStudio and Github. Please find below the installation instructions according to your OS along with video tutorials. In case you encounter any difficulties, please let us know and do not hesitate to approach us prior to the workshop.

We are looking forward to seeing you!
R-Ladies Miami

Video Tutorials:

- **R & RStudio:**

- Windows: <https://medium.com/@GalarnykMichael/install-r-and-rstudio-on-windows-5f503f708027>
- Mac: <https://www.coursera.org/learn/r-programming/lecture/9Aepc/installing-r-on-a-mac>
<https://www.coursera.org/learn/r-programming/lecture/qYDfT/installing-r-studio-mac>
- Ubuntu: <https://medium.com/@GalarnykMichael/install-r-and-rstudio-on-ubuntu-12-04-14-04-16-04-b6b3107f7779>

- **Git:** <https://gist.github.com/derhuerst/1b15ff4652a867391f03>

What is R:

R is an open source programming language and software environment for statistical computing and graphics that is supported by the R Foundation for Statistical Computing.

What is RStudio:

RStudio is a free and open-source integrated development environment (IDE) for R, a programming language for statistical computing and graphics.

What is Github:

GitHub is a web-based Git or version control repository and Internet hosting service. It is mostly used for code. It offers all of the distributed version control and source code management functionality of Git as well as adding its own features.

| Windows | Mac | Ubuntu (Linux) |
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| <p>To Install R:</p> <ol style="list-style-type: none"> 1. Open an internet browser and go to www.r-project.org. 2. Click the "download R" link in the middle of the page under "Getting Started." 3. Select a CRAN location (a mirror site) and click the corresponding link. 4. Click on the "Download R for Windows" link at the top of the page. 5. Click on the "install R for the first time" link at the top of the page. 6. Click "Download R for Windows" and save the executable file somewhere on your computer. Run the (.exe) file and follow the installation instructions. | <p>To Install R:</p> <ol style="list-style-type: none"> 1. Open an internet browser and go to www.r-project.org. 2. Click the "download R" link in the middle of the page under "Getting Started." 3. Select a CRAN location (a mirror site) and click the corresponding link. 4. Click on the "Download R for (Mac) OS X" link at the top of the page. 5. Click on the file containing the latest version of R under "Files." 6. Save the (.pkg) file, double-click it to open, and follow the installation instructions. | <p>To Install R:</p> <ol style="list-style-type: none"> 1. Open your Shell and copy/paste following code: (for Version 16.04). <pre> sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys E084DAB9 # Ubuntu 12.04: precise # Ubuntu 14.04: trusty # Ubuntu 16.04: xenial </pre> 2. Adapt the code to the respective Ubuntu version <pre> sudo add-apt-repository 'deb https://ftp.ussg.iu.edu/CRAN/bin/linux /ubuntu xenial/' sudo apt-get update sudo apt-get install r-base sudo apt-get install r-base-dev </pre> |
| <p>To Install RStudio:</p> <ol style="list-style-type: none"> 1. Go to www.rstudio.com and click on the "Download RStudio" button. 2. Click on "Download RStudio Desktop." 3. Click on the version recommended for your system, or the latest Windows version, and save the executable file. | <p>To Install RStudio:</p> <ol style="list-style-type: none"> 1. Go to www.rstudio.com and click on the "Download RStudio" button. 2. Click on "Download RStudio Desktop." 3. Click on the version recommended for your system, or the latest Mac version, | <p>To Install RStudio:</p> <p>Open your Shell and copy/paste following code:</p> <pre> sudo apt-get install gdebi-core wget https://download1.rstudio.org/rstudio-1.0.44- amd64.deb </pre> |

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| <p>4. Run the .exe file and follow the installation instructions.</p> | <p>save the .dmg file on your computer, double-click it to open</p> <p>4. Drag and drop it to your applications folder.</p> | <pre>sudo gdebi rstudio-1.0.44-amd64.deb rm rstudio-1.0.44-amd64.deb</pre> |
| <p>Install Github:</p> <ol style="list-style-type: none"> 1. Create a Github account. Go to https://github.com/ and sign up 2. Install Git on your computer https://git-scm.com/download/win 3. Optional: Install Github Desktop on your computer https://desktop.github.com/ | <p>Install Github:</p> <ol style="list-style-type: none"> 1. Create a Github account. Go to https://github.com/ and sign up 2. Install Git on your computer https://git-scm.com/download/mac 3. Optional: Install Github Desktop on your computer https://desktop.github.com/ | <p>Install Github:</p> <ol style="list-style-type: none"> 1. Create a Github account. Go to https://github.com/ and sign up 2. Install Git on your computer https://gist.github.com/derhuerst/1b15ff4652a867391f03#file-linux-md 3. Optional: Install Github Desktop on your computer https://desktop.github.com/ |

Source: <https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/56c5437b88fa43cf828bff5371c6a924/>