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# OS X Setup for Data Science - R, MySQL, IPython, Git

***Command to install Homebrew via OS X terminal:***
$ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
Homebrew will be installed in the /usr/local directory


***Useful Homebrew Commands for OSX:***
-- Updates for OSX: $brew update # (updates list of available packages)
-- Upgrades for OSX: $brew upgrade # (installs newer versions of packages)
-- List all the packages installed by brew: $brew list
-- List broken packages/installers: $brew doctor


***Install R in OSX via terminal:***
-- $brew tap homebrew/science
-- $brew install gcc
-- $brew install Caskroom/cask/xquartz
-- $brew install r


***Install R-Studio:***
-- Website: https://www.rstudio.com/products/rstudio/download/


***Install MySQl & MySQL Workbench:***
-- Website: https://coderwall.com/p/os6woq/uninstall-all-those-broken-versions-of-mysql-and-re-install-it-with-brew-on-mac-mavericks
-- Access mysql from terminal: mysql -u root -p
-- Install MySql workbench: $brew cask install mysqlworkbench


***Install Python v2.7, Anaconda and Jupyter:***
-- Anaconda Installer 32/64 bit for Python 2.7: https://www.continuum.io/downloads
-- Copy downloaded file to the desired directory and execute the command below via terminal:
  $bash Anaconda2-2.4.0-Linux-x86_64.sh
-- Restart the terminal.
-- Check python version: $python --version
-- Install jupyter via Anaconda: $conda install jupyter
-- Update Conda Installer: $conda update conda
-- Update Anaconda: $conda update anaconda
-- Check ipython notebook: $ipython notebook
-- Pymysql databse connectors for python: $conda install pymysql

***Install R Kernel for Jupyter:***
-- Install zmq package: $brew install zmq
-- Update/Upgrade brew
-- Open R via Ubuntu terminal (type R in the terminal) and execute the following commands:

       #1. Install New Packages:
       install.packages(
            c('rzmq','repr','IRkernel','IRdisplay'),
            repos = c('http://irkernel.github.io/', getOption('repos'))
       )

       #2. Install IR Kernel
       IRkernel::installspec()


***Basic Conda Commands:***
-- Conda version: $conda --version
-- Update Anaconda: $conda update anaconda
-- Update Conda Installer:  $conda update conda
-- List all installed Conda packages: $conda list
-- Search for a package: $conda search packageName
-- Install Conda packages: $conda install packageName or $pip install packageName
-- Remove installed Conda package: $conda remove packageName

***Install Git:***
-- $brew update
-- $brew install git

***Check command history:***
-- Terminal command history from start till shutdown: $history > history.txt
-- View terminal history: $cat history.txt