Installation Notes: Mac with Homebrew

Using an 2013 iMac, with 2.9 GHz Intel Core i5

- Install Homebrew
    - Go to http://brew.sh. Copy the command that you find there, and paste it into a terminal window on your Mac
        - The command is this, quotes and all:
        - `/usr/bin/ruby -e "$(curl -fsSL` [`https://raw.githubusercontent.com/Homebrew/install/master/install`](https://raw.githubusercontent.com/Homebrew/install/master/install)`)"`
    - It will ask for your password, to install Homebrew. Takes 5 minutes.

- Install Java
    - Do you have it already? Type `java -v`
    - `brew cask install java`
    - Installs Java JDK, version 10. Takes 4 minutes.

- Install Maven
    - Do you have it already? Type `mvn --version`
    - `brew install maven`
    - Takes less than 1 minute

- Install Git
    - Do you have it already? Type `git --version`
    - `brew install git`
    - Takes less than 1 minute

- Fetch the source code
    - Create a directory, and `cd` into it
    - `mkdir workshop; cd workshop`
    - `git clone https://github.com/j2blake/2018_dev_Vitro Vitro`
    - `git clone https://github.com/j2blake/2018_dev_VIVO VIVO`
    - These are special URLs for the workshop. Takes 2 minutes

- Install Eclipse
    - Do you have it already? Look for `~/Applications/eclipse-java`
    - `brew cask install eclipse-java`
    - Takes about 3 minutes

- Create the Eclipse workspace

- Open `Applications/eclipse-java`
  - If you already have an Eclipse workspace, you should probably create a new one. You can switch back and forth.
- close the Welcome window
- from the menu bar, navigate through to `File / Import… / Maven / Existing Maven Projects / workshop/VIVO`
- Takes about 3 minutes

- Install MySQL
  - Do you already have it? Type `mysql --version`
  - `brew install mysql`
  - `brew tap homebrew/services`
  - `brew services start mysql`
  - Takes about 3 minutes

- Create the MySQL database for VIVO
  - `mysql - u root`
  - `create database vitrodb character set utf8;`
  - `grant all on vitrodb.* to 'vitrodbUsername'@'localhost' identified by 'vitrodbPassword';`
  - `quit`
  - Takes about 2 minutes

- Install Tomcat
  - brew install tomcat
    - puts it into /usr/local/opt/tomcat/libexec
  - Add memory
    - With an editor, create a file called `/usr/local/opt/tomcat/libexec/bin/setenv.sh`
    - Insert this into the file:
      - `export CATALINA_OPTS="-Xms2048m -Xmx2048m"`
  - Takes about 5 minutes

- Configure VIVO
  - In `workshop/VIVO/installer`, use an editor to modify `example-settings.xml`. Change these two lines (you need to know the full path to your `workshop` directory:
  `<vivo-dir>/absolute/path/to/workshop/home</vivo-dir>`
  `<tomcat-dir>/usr/local/opt/tomcat/libexec</tomcat-dir>`

- Build VIVO
  - In workshop/VIVO, run Maven
  - mvn install -s installer/example-settings.xml

- ○ Takes 6 minutes the first time, because Maven must download all of the dependencies. Will take less time after that.

- Configure VIVO again
- Start Tomcat
    - ○ brew services start tomcat