Follow the instructions on <http://docs.basho.com/riak/1.2.0/tutorials/fast-track/>

1. Go to the path on your computer where you want to install the riak (say the folder for your project)
2. Open terminal on this path and run the following commands to get Erlang from source:

$ wget http://erlang.org/download/otp\_src\_R15B01.tar.gz

$ tar zxvf otp\_src\_R15B01.tar.gz

$ cd otp\_src\_R15B01

Then,

$ ./configure --disable-hipe --enable-smp-support --enable-threads --enable-kernel-poll --enable-darwin-64bit --with-ssl=/usr/local/opt/openssl

Then say:

$ touch lib/wx/SKIP lib/odbc/SKIP

$ make && sudo make install

and give your sudo password when prompted

Check that *erl*has found the crypto module ok

$ erl  
Erlang R16B01 (erts-5.10.2) [64-bit] [smp:4:4] [async-threads:10] [kernel-poll:false]  
Eshell V5.10.2 (abort with ^G)  
  
1> crypto:start().  
ok

Or different version as:

$ wget http://erlang.org/download/otp\_src\_R16B01.tar.gz

$ tar zxvf otp\_src\_R16B01.tar.gz

$ cd otp\_src\_R16B01

Then,

$ ./configure --disable-hipe --enable-smp-support --enable-threads --enable-kernel-poll --enable-darwin-64bit --with-ssl=/usr/local/opt/openssl

Then say:

$ touch lib/wx/SKIP lib/odbc/SKIP

$ make && sudo make install

and give your sudo password when prompted

Check that *erl*has found the crypto module ok

$ erl  
Erlang R16B01 (erts-5.10.2) [64-bit] [smp:4:4] [async-threads:10] [kernel-poll:false]  
Eshell V5.10.2 (abort with ^G)  
  
1> crypto:start().  
ok

User switch command  
 --> q

Now for Elixir, it’s just a matter of going back to using homebrew and all should behave as expected.

$ brew install elixir  
$ iex  
Erlang R16B01 (erts-5.10.2) [64-bit] [smp:4:4] [async-threads:10] [kernel-poll:false]  
Interactive Elixir (0.10.1) - press Ctrl+C to exit (type h() ENTER for help)  
iex(1)> IO.puts("Woot  
Woot  
\:ok  
iex(2)>

1. Get Riak from source using the following commands to the same path as you did for above (so as to get erlang and riak at the same level):

$ wget https://files.tiot.jp/riak/kv/2.2/2.2.3/riak-2.2.3.tar.gz

$ tar zxvf riak-2.2.3.tar.gz

$ cd riak-2.2.3

$ make rel

With riak 2.2.3:

Problem: It gives public key or SSH problem to get fuse from git. Solve it with: riak-2.2.3 -> deps -> yokozuna -> rebar.config

Change: {fuse, "2.1.0", {git, "git@github.com:jlouis/fuse.git", {tag, "v2.1.0"}}},

To: {fuse, "2.1.0", {git, "git://github.com/jlouis/fuse.git", {tag, "v2.1.0"}}},

Also, if you get the version problem, change the riak-2.2.3 -> rebar.config

From: {require\_otp\_vsn, "R16|17"}.

To: {require\_otp\_vsn, "R15|16"}.

After $ make all

Say:

Now, that the makefile is riak2.2.3 is configured to create 8 dev nodes. We will be creating only 4. So, open this makefile in riak2.2.3 folder and change:

DEVNODES ?= 8

To:

DEVNODES ?= 4

Then say:

$ make devrel

$ cd dev

$ ls

dev1 dev2 dev3 dev4

$ dev1/bin/riak start

If it gives the limit warning for open files, say :

$ launchctl limit maxfiles 2048 unlimited

This will set the limit until the next time you reboot. To make the change permanent add the line below to /etc/launchd.conf (superuser access required):

$ limit maxfiles 2048 unlimited

If launchd.conf does not exist, then create it using:

$ sudo touch /etc/launchd.conf

touch creates an empty file “launchd.conf”

then go to this path and say :

$ sudo vi launchd.conf

and edit the file to add the following to it:

cpu unlimited unlimited

**filesize** unlimited unlimited

data unlimited unlimited

stack 8388608 67104768

core 0 unlimited

rss unlimited unlimited

memlock unlimited unlimited

maxproc 709 1064

maxfiles 16384 32768

Then save and exit saying:

Esc:wq!

Say:

$ cat launchd.conf

to see the changes being reflected in the file .

Say

$ launchctl limit

to see if the changes are actually reflected in the system or that only saved to file

Seems that this file is not working for MacOS Sierra,

Then if you want, you can delete this file saying:

$ sudo rm –i launchd.conf

Simply say:

$ sudo launchctl limit maxfiles 16384 32768

or rather:

$ sudo launchctl limit maxfiles 65536 32768

And see the changes reflected by saying:

$ launchctl limit

Start riak.

// TBD: creating cluster.