

`./configure; make;
make install`



An introduction to building and installing
software with GNU Autotools

Hierachies



- ❧ A UNIX hierarchy contains standard directories.
- ❧ bin – contains binaries, easy to add to PATH
- ❧ include – contains C and C++ include files
- ❧ lib – contains static and shared libraries
- ❧ etc – contains configuration files
- ❧ src – contains source code

Resource: Filesystem Hierarchy Standard

Requirements



- ✧ A C compiler (GCC/Clang)
- ✧ Build tools (Make)

Debian-based:

```
sudo apt-get install build-essential
```

RedHat-based:

```
sudo yum groupinstall 'Development Tools'
```

The Autotools Process



- ❧ Download the tarball
- ❧ Configure the software (`--prefix`)
- ❧ Build
- ❧ Install

Time for Action



❧ wget

❧ git

❧ emacs

❧ tmux

Conclusions



- ❧ Don't bother your sysadmin
- ❧ Get all the software you want
- ❧ Watching software compile is strangely mesmerizing