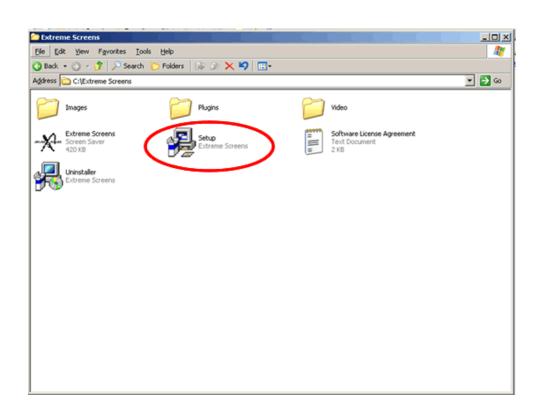
Build and Package

CSE 403 section, 2011 Feb 3, Hao Lu

How can others run your code?

- Build from code?
- Installation?
- Resources or dependencies?
- Options?
- Documentation

- Precompiled distribution
- Run setup.exe



- Download source code tarball
- \$./configure
- \$ make
- \$ make install

```
makefile:
all: hello

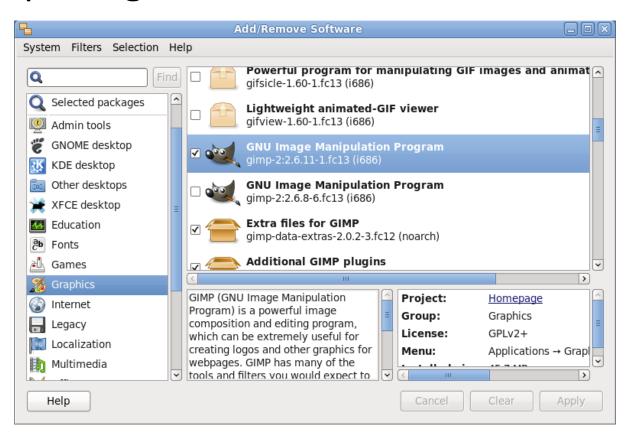
clean:
    -rm main.o hello.exe hello

hello: main.o
    g++ -g -o hello main.o

main.o: main.cpp
    g++ -c -g main.cpp
```

- Download package.deb
- \$ dpkg -i package.deb

From package list



App store



Example 6 (WordPress)

- Download and unzip the WordPress package
- Create a database for on your web server
- Copy the WordPress files to your web server
- Open wp-admin/install.php in a web browser



Build

- Automation
 - Autoconf, GNU make, Cmake, Ant, Maven, Rake, ...
 - Xcode, Visual Studio, ...
- Dependencies!
- Documentation!

Package Format

- source tarball
- .app
- .jar
- .apk
- .rpm
- .xpm
- setup.exe
- .dll; .so; ...
- ...

Install

- Windows Installer
- Package manager





Guidelines

- Instructions
- Requirements
- Automate
- Clear, flexible configuration

Release(s) we'd like

- Stuff for both users and developers
 - Often easier in one package
 - Sometimes the same
- Complete instructions

Setup we'd like

- README in your code repository
- Tell us where everything is
- One step build script to generate all releases