

By Terry and Dylan

git clone git@github.com:edev/MakefileDemo.git

Motivation

- Ease of flag organization
 - g++ -g *.cpp -Wall
- Quick control of compiling
- Repeatability
- Ease of Development

- Just type "make" to compile your programs

Version One

A list of **build instructions** that make the compiler work in a specific way.

- Target
- Dependencies
- Recipe

For instance:

```
all: *.cpp *.h
g++ -Wall -o cookiemonster *.cpp
```

Version Two

```
all: *.cpp *.h
g++ -Wall -o cookiemonster *.cpp
clean:
rm cookiemonster
```

git clone git@github.com:edev/MakefileDemo.git

Running a Makefile

make

ls

./cookiemonster

make clean

ls

git clone git@github.com:edev/MakefileDemo.git

Version Three

```
all: *.cpp *.h
g++ -Wall -o cookiemonster *.cpp

test: testThreeTimes

testThreeTimes: all
./cookiemonster < testThreeTimes.input

clean:
rm cookiemonster
```

```
Makefile
  1 all: dir latex dvi ps mv
   3 dir:
      rm -rf build
     mkdir build
   7 latex: *.tex
      latex -output-directory build main.tex
   9
 10 dvi: build/main.dvi
     cd build && dvips main.dvi
 12
 13 ps: build/main.ps
       cd build && ps2pdf main.ps
 15
 16 mv:
      mv build/main.pdf Notes.pdf
```

Questions?

(No, we don't have cookies. Sorry!)

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