



syntax	
target	
dependency	
up to date	
makefile	

## What a Rule Looks Like

A simple makefile consists of "rules" with the following shape:

target ... : prerequisites ... command

... ...

sample makefile		
# a sample makefile		
# targets begin at the left margin and followed with ":"		
# shell command lines begin with a tab, often overlooked		
stimul	ate:	
# one or more commands to create		
	stimulate gcc -o stimulate -O stimulate.c inputs.c outputs.c	
stimulate.db: gcc -DDEBUG -g -o stimulate.db stimulate.c inputs.c outputs.c		
inputs	inputs.do: inputs.c headerfile.c gcc -o inputs.do -c -DDEBUG -g inputs.c	
clean:	rm *.o *.do stimulate stimulate.db	

- another with macros
- # another make file
- # with macros

DEPENDS= inputs.o outputs.o stimulate.o DBDEPENDS= inputs.do outputs.do stimulate.do

stimulate: \$(DEPENDS)

gcc -o \$@ \$(DEPENDS)

stimulate.db: \$(DBDEPENDS) gcc -o \$@ \$(DBDEPENDS)

## invoking make

checks to see if files on which target depends are up to date creates a new version of any file that is out of date checks if target is up to date on files which it depends on creates a new version of the target if out of date

\$ make

\$ make clean