Chapter 19 - Installing Software from Source Code

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Open source Licensing

- BSD License
    - Source code can be modified
    - Modification can not be redistributed
    - Adverteised so that it's clear that BSD code is used
    - Can be used as proprietary or commercial software
- GNU Public License (GPL)
    - "Copyright license"
    - Modified Software can be distributed under the same license

Install Lynx Software

Lynx is a Text Browser

- Downloaded from lynx.isc.org
- unzip

```
$ PATH=$PATH:/usr/sfw/bin:/usr/ccs/bin:.
$ export PATH
$ ./configure
$ make
$ make install
```

Run Lynx

Compile C Program

```
$ gcc hello.c # complies hello.c file
$ gcc -o hello hello.c # compiles hello.c and names the output file hello
$ gcc -c main.c sub1.c sub2.c # compiles 3 files in one command
$ gcc -o maketest main.o sub1.o sub2.o
$ make -f make.my # executes makefile
```

makefile/Makefile

Schema:
<default target>: dependency list
<tab>command
<target>: depencdency list
<tab>: dependency list

...
 <label>:
<tab>: command

Example:

```
maketest: main.o sub.o sub2.o
    gcc -o maketest main.o sub1.o sub2.o
main.o : main.c my.h
    gcc -c main.c
sub1.o : sub1.c my.h
    gcc -c sub1.c
sub2.o : sub2.c my.h
    gcc -c sub2.c
clean :
    rm -f *.o maketest
```