Creating the First C App

C code ← text readable

Compile

C object code ← binary file

Standard C libraries

User / 3rd Party Libraries

link

C executable binary. ← binary file.
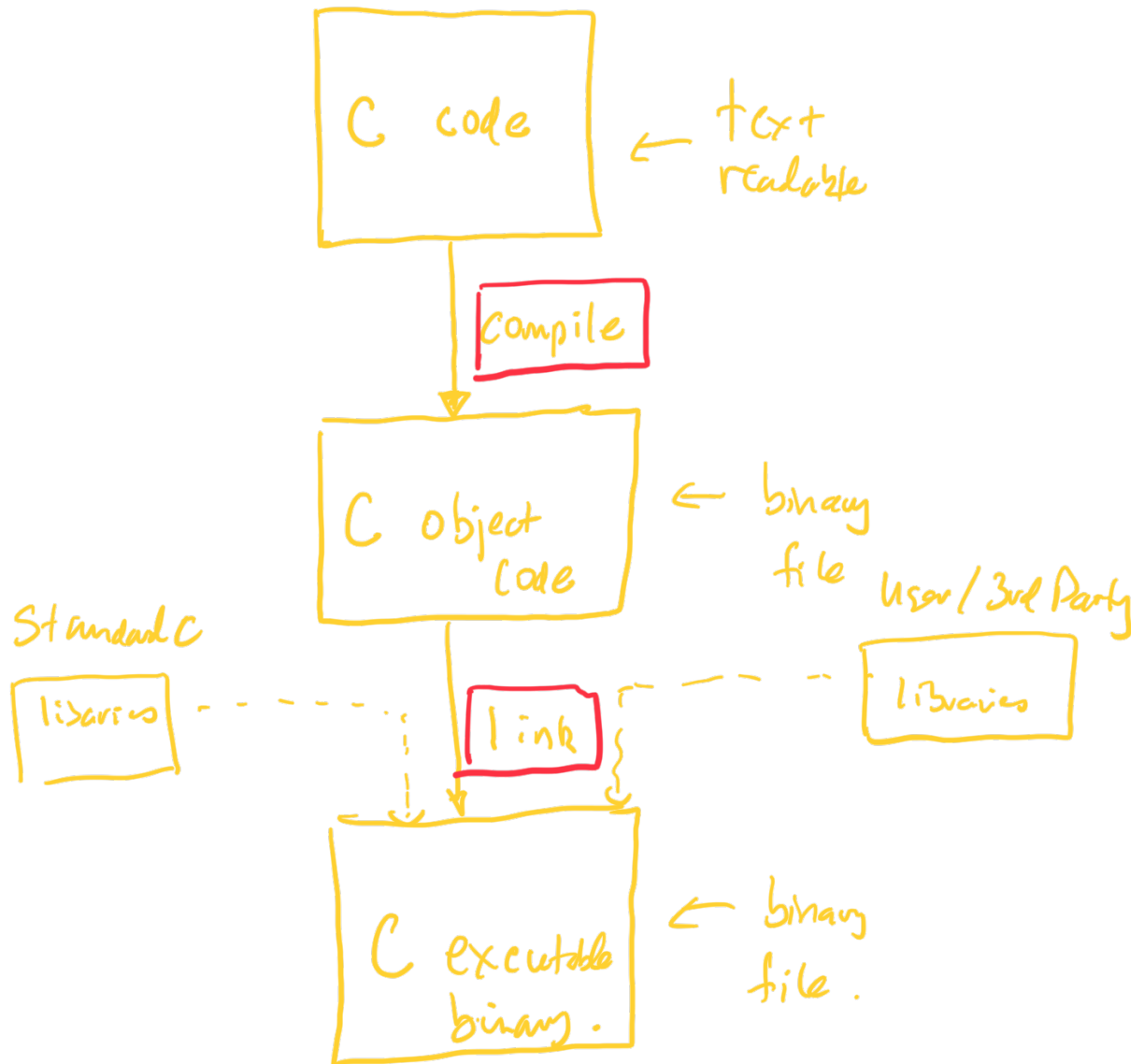
Step 1: Create a text file with our C code in it.

(Note pad
vi
emacs
nedit
⋮)

→ edit mycode.c

→ enter C instructions

→ save file.

Step2 : Compile our text code into a binary object code.

→ `gcc -c mycode.c`

→ This creates a file mycode.o

Step 3 : Link with standard C libraries and extend libraries.

→ `gcc -o mycode mycode.o`

→ This creates a binary executable, mycode, which can be "run" by the C

Simplest C Program → HelloWork

/* This is a commet */

/*
*
* This is a multiline Comment
*
*/

⌐ I/O meth

part
of
standard
C

include   \<stdio.h\>

include   \<stdlib.h\>

← (Generic
   methods &
   parameters

often #'s = error code.
φ = success

/ return a value to the OS
   after running.

more later!

int |main| (int argc , char**

required in all C programs.   argv

start of
method/
function → {

end
of → }
method/
function.

✓ defined in stdio.h LINEFE
printf (" Hello World \n ");
                  ‾‾‾‾‾‾‾‾‾‾‾‾
                  string to output
return (EXIT_SUCCESS

all statement
in C end
with a ";"
(I'm dre !)

‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾

that's it! We should be able to create
and execute the app!

Requirements!   Must have a
‾‾‾‾‾‾‾‾‾‾‾‾‾

C compiler installed → See instruction
in the Development Environment Setup

document.!!!