28 C Compiler

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cc - C ompiler

```
#include <stdio.h>
#include <stdlib.h>

Int main(void) {
        Puts("Hi there!");
        Return EXIT_SUCCESS;
}
```

cc creates an executable file called a.out

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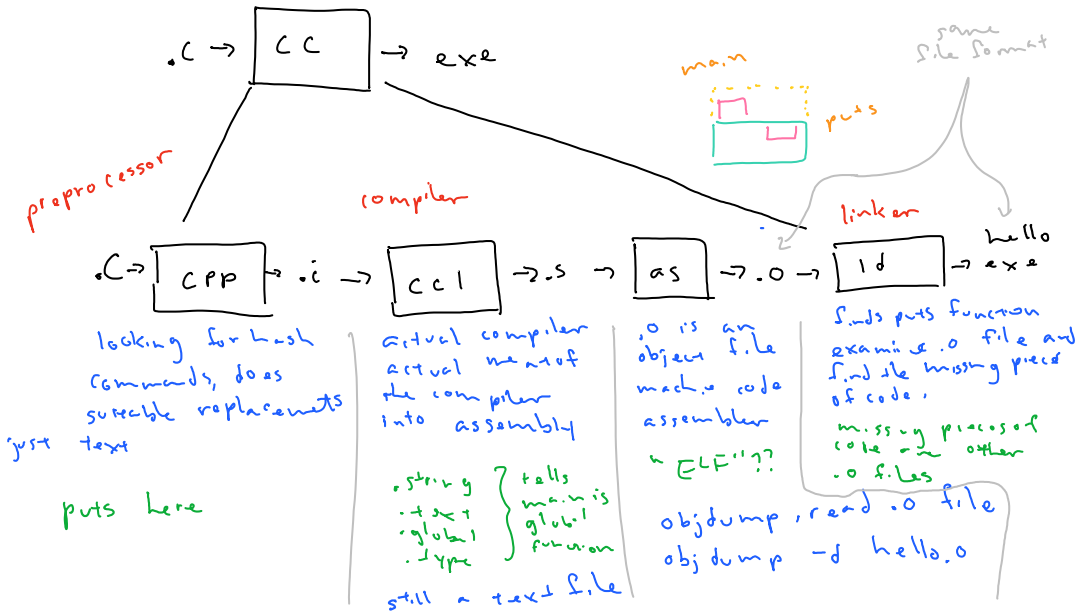
Temp files for c compiler



.o file doesn't actually have "Hello there!" string. Actually stored in read only data, .rodata not in .text

Could have written w/o the includes

```
//#include <stdio.h>
//#include <stdlib.h>

Int main(void) {
```

```
        Puts("Hi there!");
        Return 0; //EXIT_SUCCESS;
}
```

We never tell it what puts is, (in include)
It "invents" puts
Code still runs

Cci still puts "puts" in code, linker just sticks a suitable function in
Can put extra arguments

```
        Puts("Hi there!", 23, 645, "yo");
```

Because function parameters put on stack then taken off after function completes
If put nothing, or put something now a string will get a segmentation fault

Linker is not very smart, used by a bunch of different languages