

Introduction to C

Compilation

C code file

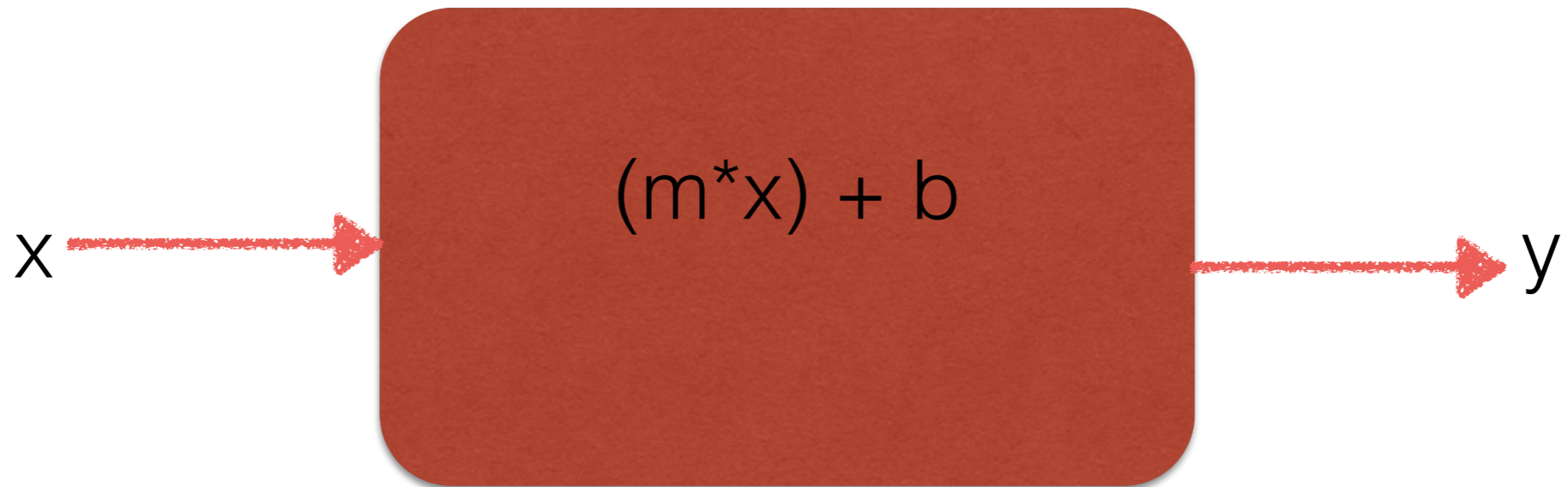


Machine language file

executable



$$f(x) = mx + b$$



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

where inputs
go

```
int
```

```
main( )
```

```
{
```

```
printf("hello, world!");
```

```
return 0;
```

```
}
```

where outputs go

name of
function

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

```
int
```

```
main( )
```

```
{
```

```
printf("hello, world!");
```

```
return 0;
```

```
}
```

Main function

Main returns
an integer

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

```
int
```

```
main()
```

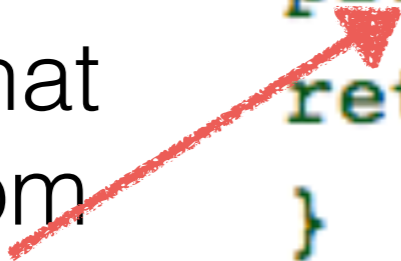
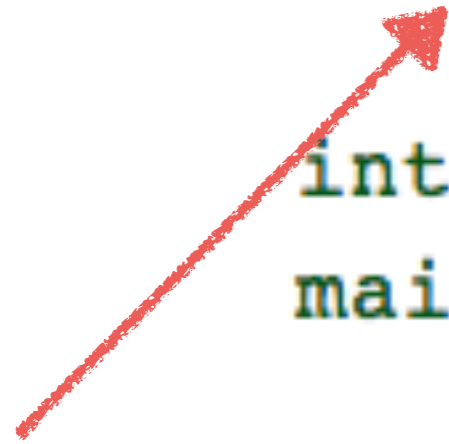
```
{
```

```
printf("hello, world!");
```

```
return 0;
```

```
}
```

printf is
function that
comes from
stdio



display all
warnings

your program

gcc -Wall -g hello.c -o hello

compiler

save debug
info

name of
executable

Color code Vim Macro

[http://troll.cs.ua.edu/cs150/book/
index_3.html](http://troll.cs.ua.edu/cs150/book/index_3.html)