

C is a thin wrapper around ASM

{

;

}

```
.c
int f(int x) {
  int y = x >> 2;
  // comment
  return x+y;
}
/*
comment
*/
```

Pre-processor
CPP

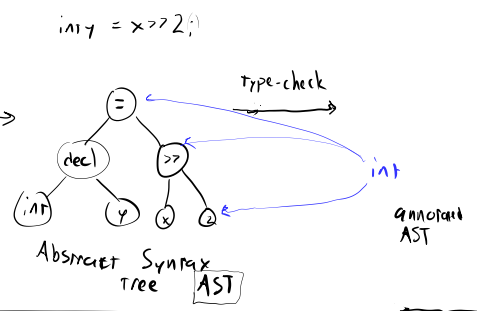
```
int f(int x) {
  int y = x >> 2;
  return x+y;
}
```

tokenizer
lex



remain
Spaces
disambiguation
1.2 1.2
x.y

Parser



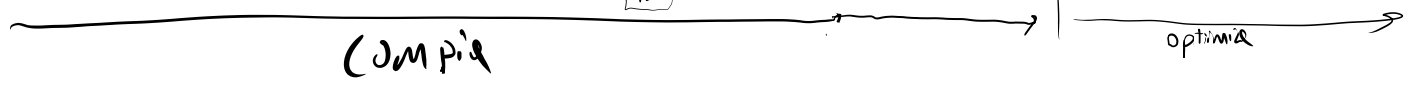
code generation

ASM

fixer

ASM

linker
loader
etc



```
x = 3;  
int x;
```

≠ define
declare before use
~~double puts(double, int, int)~~

```
puts( )
```

Types

	int	usual
Signed	char	8
Unsigned	short	16
	int	32
	long	32/64
	long long	64

float

float - 32

double - 64

~~long double = 64~~