

2 Variables and Data types

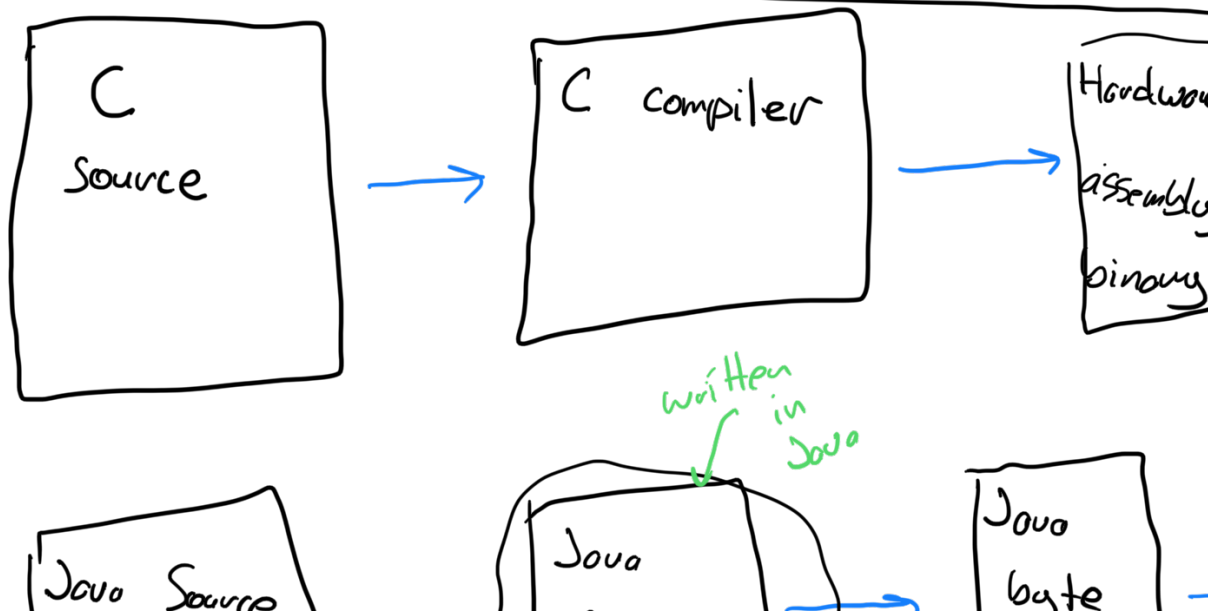
```
package com.techlevator
```

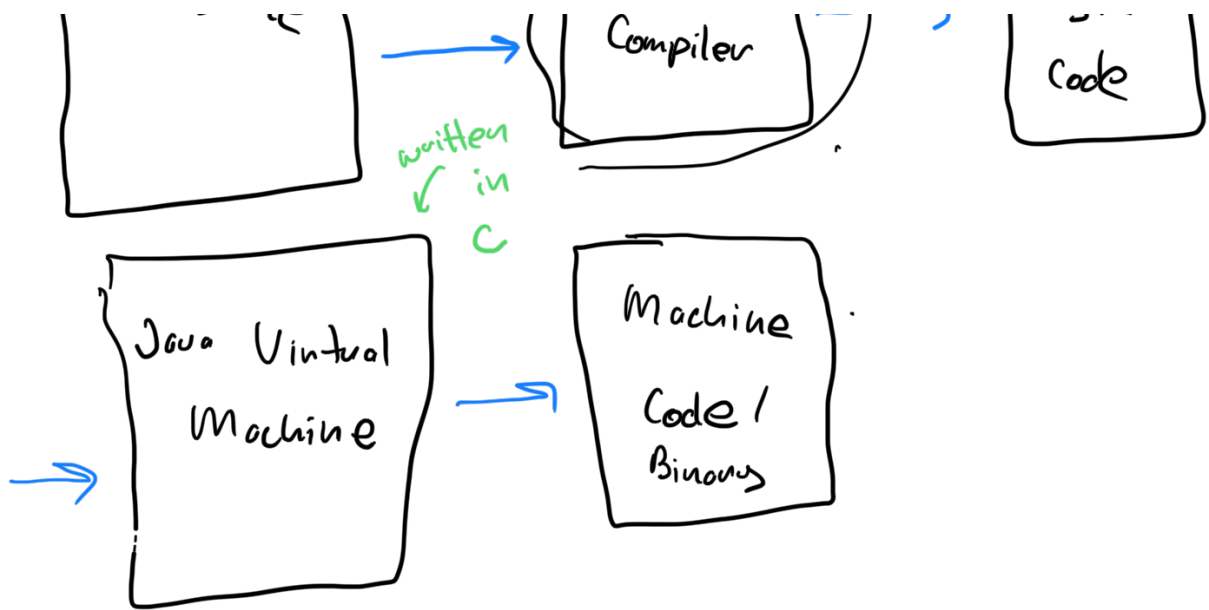
```
public class HelloWorld
```

```
public static void main (String[] args)
```

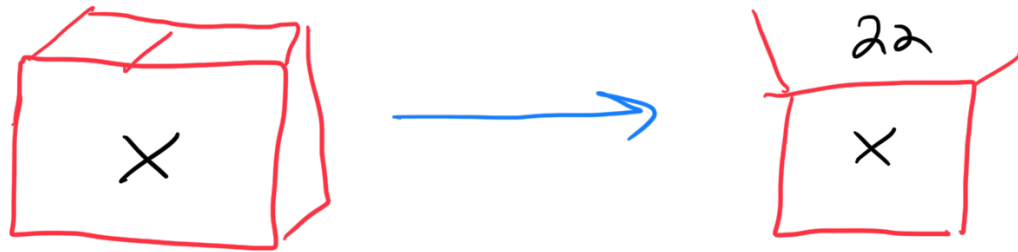
```
System.out.println("Hello World");
```

```
}  
}
```





Variables



bit \rightarrow 0 1

byte \rightarrow 8 bits

data types

Primitive

Types

boolean

true / false

1 bit

byte

-127 127

1 byte - 8 bits

char

int	- 2.4 billion	- 2.4 billion	2^{31}	$- 2^{31}$
long	2^{63}	$- 2^{63}$		
float	$- 3.4 \times 10^{38}$	3.4×10^{38}		rounding errors
double	$\pm 5 \times 10^{-324}$	$\pm 1.7 \times 10^{308}$		

Operators

+	Elementary Math
-	
*	
/	
%	remainder of integer division