Programming Robots



You store information inside variables

Such as:

- Integers
- Characters
- Strings (if you don't know what this means, it means more than one character)
- Boolean Values (true or false)
- Other types of numbers!
- That's about it, really



How to make variables

(type of variable) (variable name) = (variable value);

Ex. int rotation = 30;

Then you can call the variable, and get the value assigned!

Ex. The computer would view 3 * rotation as 90

Boolean Conditions

Boolean Conditions are True or False

Boolean Conditions are a statement that is either true or false

Ex. $30 \ge 15$ is returns true, and $30 \ge 45$ returns false

They can be either a Boolean variable or a line using Boolean Operators



Boolean Operators

== : equals && : and

> : greater than

<= : less than or equal to

>= : greater than or equal to

If, While, and For

The If/Else

```
Ex.
if(x > 15){
something
Else{
Some other thing
```

(You can also throw in an else if somewhere)

The While Loop

```
Ex. while(x < 2){
Repeat this
```

The For Loop (Complicated)

```
Ex. for(int x = 0; x < 15;x++){

Do this once, then add 1 to x, then repeat if x is less than 15
```

(you do need those semicolons)