

```
A literal stays the same 20 is always 20

ellipse(mouseX, mouseY, 20, 20);

A variable changes (varies)
```

mouseX could be any number

mouseX — mouse position on the x axis
mouseY — mouse position on the y axis
width — width of the canvas
height — height of the canvas
frameRate — current frameRate

has been running

for how many frames the sketch

frameCount

int

float

boolean

color

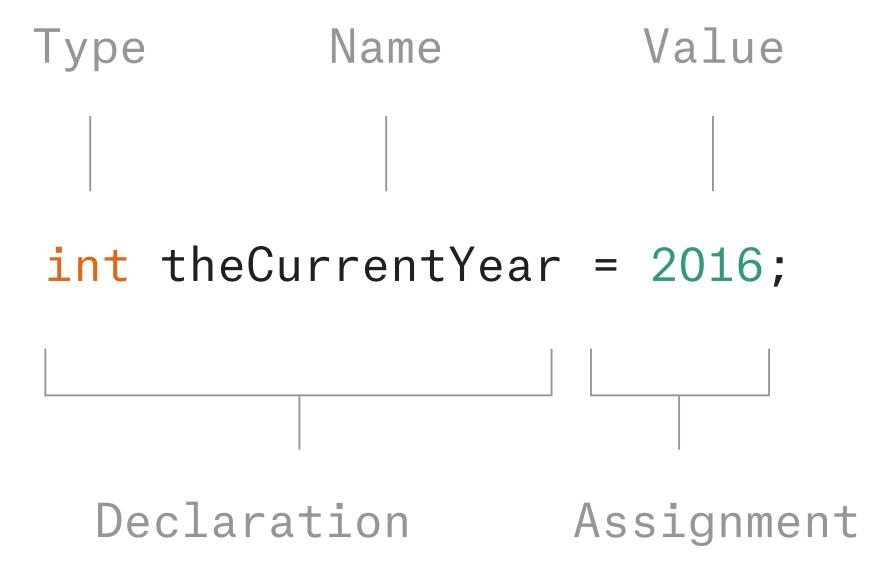
char

String

int

```
Stores whole numbers (integers)
```

```
int theCurrentYear = 2016;
int aPersonsAge = 55;
int numParticipants = 9;
```



float

Stores numbers with decimal points (floating point)

```
float productCost = 19.95;
float documentHeight = 29.7;
float pi = 3.14;
```

boolean

true or false?

```
boolean on = true;
boolean mouseIsDown = false;
boolean expired = true;
```

color

Stores a color

```
color red = color(255, 0, 0);
color highlightColor = #FFFF00;
color textColor = color(50);
```

char

Stores a single character

```
char firstInitial = 'D';
char lastKeyPressed = 'A';
char YorN = 'N';
```

String

Stores a 'string' (sequence) of characters i.e. text

```
String name = "Dan";
String message = "Hello!";
String content = "It was the best of times, it
```



```
+ Add
```

- Subtract
- * Multiply
- / Divide

- ++ increment (Add one)
- -- decrement (Subtract one)

+ Addition

```
int apples = 4;
int oranges = 6;
int fruits = apples + oranges;
```

- Subtraction

```
int purchased = 100;
int sold = 25;
int inventory = purchased - sold;
```

* Multiplication

```
float price = 19.99;
float unitsSold = 25;
float revenue = unitsSold * price;
```

/ Division

```
int miles = 80;
int hours = 3;
int speed = miles / hours;
```

++ Increment

```
int age = 55;
age++;
println(age); // 56
```

-- Decrement

```
int sessions = 10;
sessions--;
println(sessions); // 9
```