SO AN OBJECT HAS A BUNCH OF INFORMATION (VALUES), AND YOU CAN ACCESS EACH BIT OF INFORMATION BY NAME (KEYS)

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EACH KEY-VALUE PAIR IS CALLED A PROPERTY OF THE OBJECT

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REMEMBER THE TERM 'PROPERTY', ITS AN IMPORTANT TERM!

REMEMBER THAT JAVASCRIPT HAS NO

SAY YOU HAVE AN OBJECT CALLED RECTANGLE

```
function Rectangle(l,b){
  this.length = l;
  this.breadth = b;
```

SO, WHEN WE SAY WE HAVE AN OBJECT CALLED RECTANGLE,

REMEMBER THAT JAVASCRIPT HAS NO CLASSES, ONLY OBJECTS -

SAY YOU HAVE AN OBJECT CALLED

SO, WHEN WE SAY WE HAVE AN OBJECT CALLED RECTANGLE, WE MEAN WE HAVE AN OBJECT CONSTRUCTOR CALLED RECTANGLE

REMEMBER THAT JAVASCRIPT HAS NO

SAY YOU HAVE AN OBJECT CALLED RECTANGLE

```
function Rectangle(l,b){
  this.length = l;
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```

SO, WHEN WE SAY WE HAVE AN OBJECT CALLED

SAY YOU HAVE AN OBJECT CALLED RECTANGLE

```
function Rectangle(l,b){
  this.length = l;
  this.breadth = b;
}
```

SAY YOU HAVE AN OBJECT CALLED CIRCLE

```
function Circle(r) {
  this.radius = r;
}
```

SAY YOU HAVE AN OBJECT CALLED

NOW - SAY YOU WANTED TO ADD 2 PROPERTIES, SHAPETYPE, AND DRAW

WOULD YOU ADD THEM TO BOTH THE CIRCLE AND THE RECTANGLE CLASS, I.E. TWICE?

IN ANYLANGUAGE - THE ANSWER IS NO!

SAY YOU NOW - SAY YOU WANTED TO ADD 2 PROPERTIES, SHAPETYPE, AND DRAW

WOULD YOU ADD THEM TO BOTH THE CIRCLE AND THE RECTANGLE CLASS, I.E. TWICE?

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function Circle(r) {
 this.radius = r;

CIRCLE AND RECTANGLE ARE BOTH SHAPES, PUT THE COMMON PROPERTIES INSIDE SHAPE

SAY YOU HAVE AN OBJECT CALLED RECTANGLE

SAY YOU HAVE AN OBJECT CALLED CIRCLE

NOW - SAY YOU WANTED TO ADD 2 PROPERTIES, SHAPETYPE, AND DRAW

CIRCLE AND RECTANGLE ARE BOTH SHAPES, PUT THE COMMON PROPERTIES INSIDE SHAPE

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prototype IS A JAVASCRIPT KEYWORD, AND IS A PROPERTY OF EVERY OBJECT CONSTRUCTOR

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HOW IS THIS POSSIBLE? IS N'T A CONSTRUCTOR A FUNCTION?

ITS POSSIBLE - BECAUSE FUNCTIONS ARE OBJECTS TOO!

SO ITS PERFECTLY OK FOR FUNCTIONS TO HAVE PROPERTIES!

prototype IS A JAVASCRIPT KEYWORD, AND IS A PROPERTY OF EVERY OBJECT CONSTRUCTOR

WHEN WE SAY THAT "SHAPE" IS THE prototype OF "CIRCLE", IT MEANS THAT:

- EVERY OBJECT OF CIRCLE OR RECTANGLE WILL "HAVE ACCESS TO" 1 SPECIFIC OBJECT OF THE SHAPE CLASS
- THE PROPERTIES OF SHAPE WILL BE AVAILABLE ON EVERY CIRCLE OBJECT

prototype IS A JAVASCRIPT KEYWORD, AND IS A PROPERTY OF EVERY OBJECT CONSTRUCTOR

PROTOTYPES ARE JAVASCRIPT'S EVERWAY OF DOING INHERITANCE HAVE ACCESS TO 1 SPECIFIC OBJECT OF THE SHAPE CLASS

• THE PROPERTIES OF SHAPE WILL BE AVAILABLE ON EVERY CIRCLE OBJECT