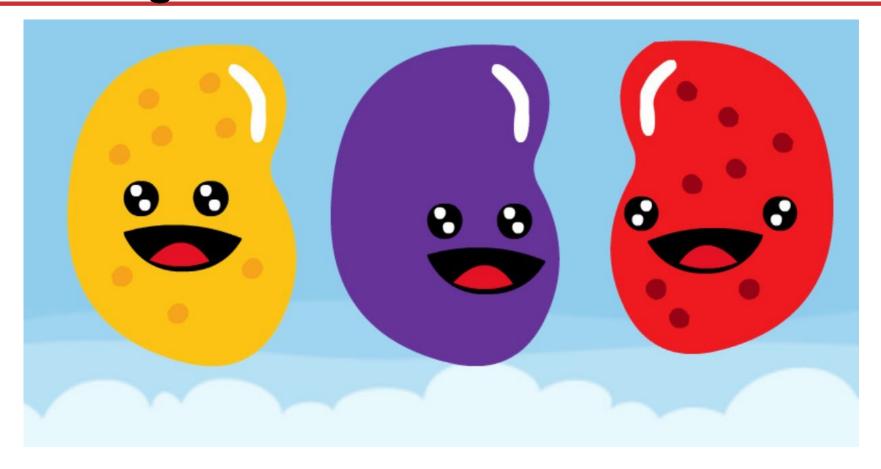
## JavaScript Juggernauts

## This will soon be



JavaScript Juggernauts.

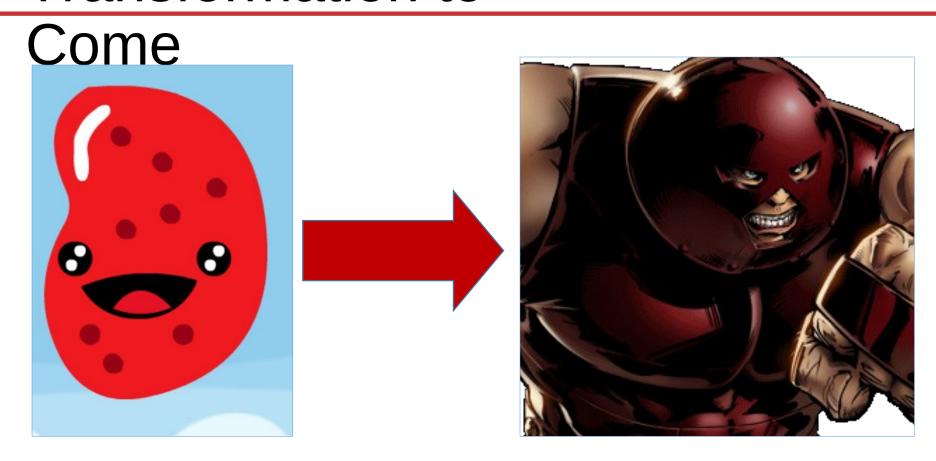
## But right now...



Maybe feeling like

## JavaScript Jellybeans.

## Transformation to



## HANG IN THERE!

# Objects

#### Instructor: Demo

(GoodArray.html | 28-GoodArray)

#### Instructor: Demo

(JoanOfArcArrays.html | 29-JoanOfArcArrays)

## **Associated Data**

## ==/== Arrays

```
var joanOfArcInfoParts = ["Real Name", "Grew Up Where", "Known For", "Scars", "Symbolism"];

var joanOfArcInfoValues = ["Jehanne la Pucelle.", "Domremy, a village in northeastern France.",
    "Peasant girl, daughter of a farmer, who rose to become Commander of the French army.",
    "Took an arrow to the shoulder and a crossbow bolt to the thigh while trying to liberate Paris.",
    "Stands for French unity and nationalism."];
```

# Relating two separate arrays is <u>not fun</u>.

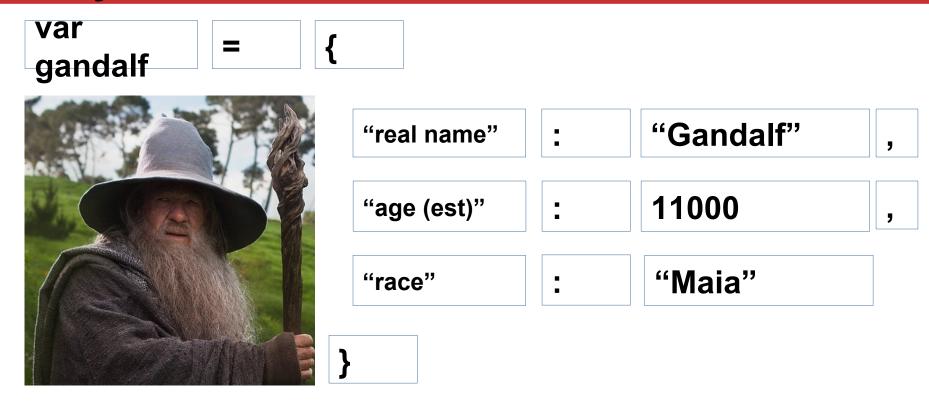
#### Instructor: Demo

(gandalf-the-grey-objects.html | 30-GandalfTheGreyObjects)

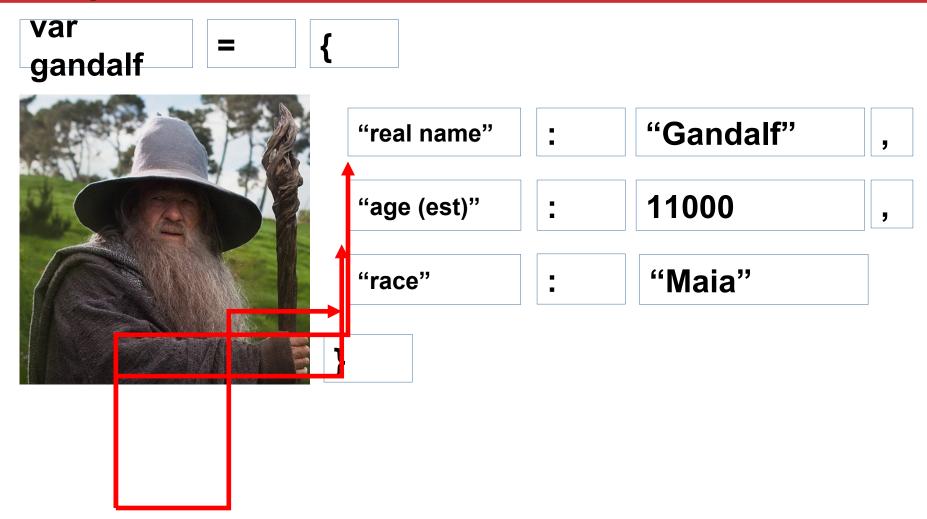
## Gandalf – The Object

```
var gandalf = {
 "real name": "Gandalf",
 "age (est)": 11000,
 race: "Maia",
 haveRetirementPlan: true,
 aliases: [
    "Greyhame",
   "Stormcrow",
    "Mithrandir",
    "Gandalf the Grey",
    "Gandalf the White"
alert("My name is " + gandalf["real name"]);
if (gandalf.haveRetirementPlan) {
 var ageProperty = "age (est)";
 var years = gandalf[ageProperty];
 alert("My 401k has been gathering interest for " + years + " years!");
alert("I have more than " + gandalf.aliases.length + " aliases");
alert("My designation is " + gandalf["designation"]);
```

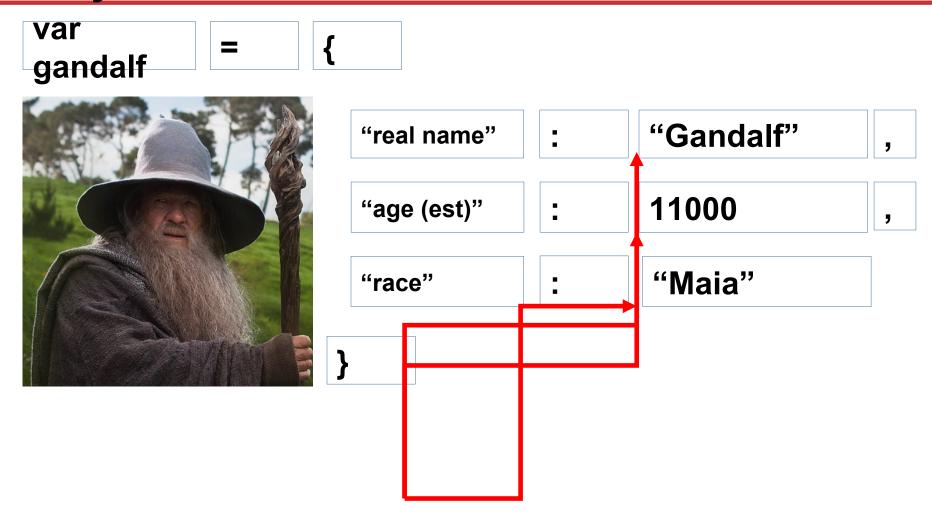
Gandalf's "properties" and "values" are associated in object form, making it easy to recall specific data.



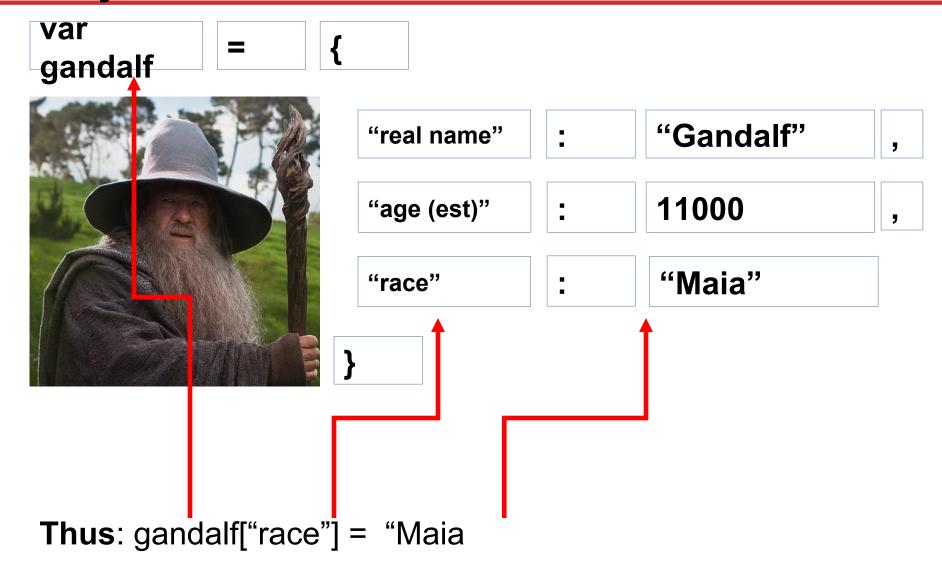
This is Gandalf. According to code... Gandalf is an Object.



These are Gandalf's **properties** (like descriptors).



These are the "values" of Gandalf's properties.



### Instructor: Repeat Demo

(gandalf-the-grey-objects.html | 30-GandalfTheGreyObjects)

#### **Code Dissection / Creation: Basic Objects**

- With a partner, spend the next few moments studying the code just slacked to you.
- Then, write code below each comment to log the relevant information about the provided car object.
- Bonus: If you finish early, create a brand new object of your own. Slack out a snippet of the code to the class when you are done. Be Creative!

#### Instructor: Demo in Browser

(carGame\_Solved.html | 32-CarGame)

#### **Code Creation: Run that Car!**

- Using the code from the previous activity as a starting point, create a complete application such that:
  - Users can enter keyboard input (letters).
  - Each of the car's methods are assigned to a key.
  - When the user presses a key it calls the appropriate function.
  - These letters also trigger a global function called reWriteStats() that logs the car's make, model, color, mileage, and isWorking status to the console.
  - HINT: You will need to use the document.onkeyup() function to collect input from the user's keyboard.

# Questions