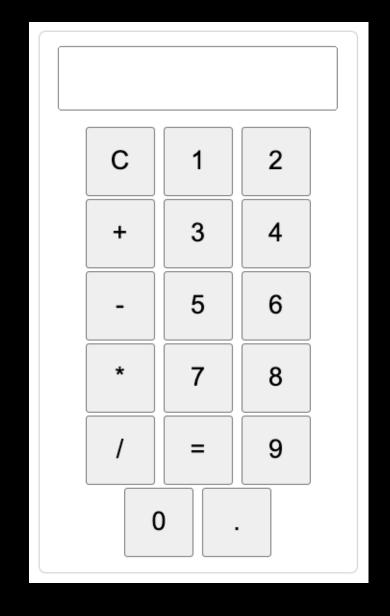
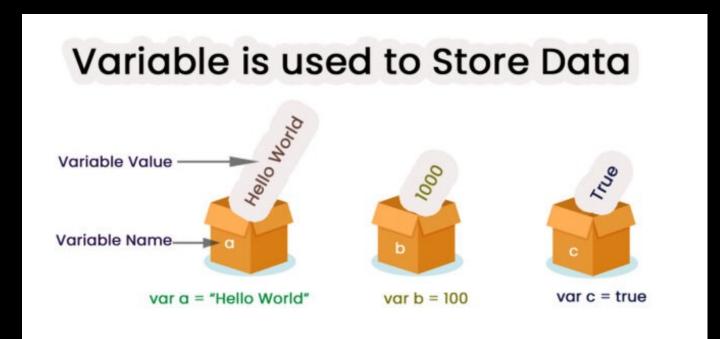
### Variables

- · What are Variables
- . Syntax Rules
- . Updating Values
- . Myntra Bag Exercise
- . Naming Conventions
- Ways to create
   Variables



## What are Variables?





Variables are like containers used for storing data values.

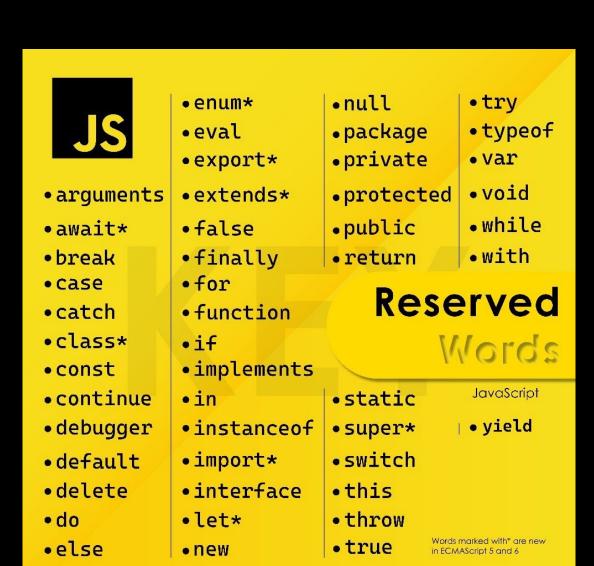
# Syntax Rules

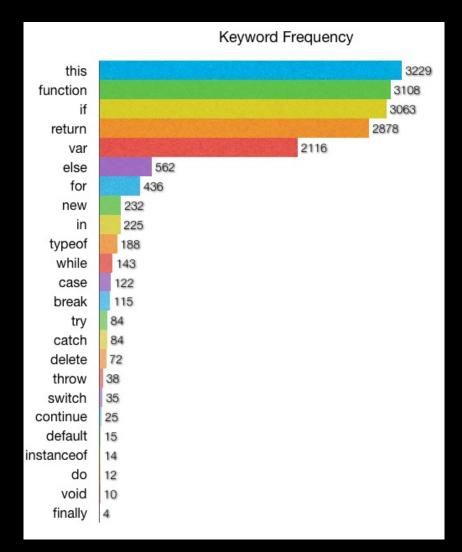
```
// Defining a number variable
let noOfStudents = 5;

// Defining a String variable
let welcomeMessage = "Hello Beta"
```

- 1. Can't use keywords or reserved words
- 2. Can't start with a number
- 3. No special characters other than \$ and \_
- 4. = is for assignment
- 5. ; means end of instruction

# JS Keywords





# Naming Conventions

#### camelCase

- Start with a lowercase letter. Capitalize the first letter of each subsequent word.
- Example: myVariableName

### snake\_case

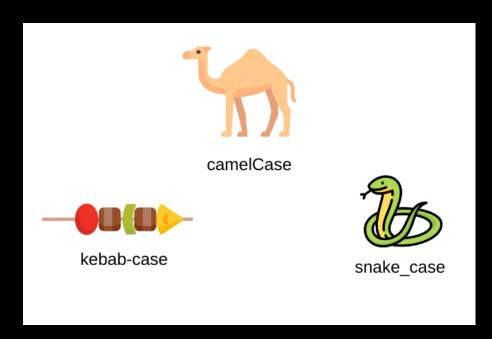
- Start with an lowercase letter. Separate words with underscore
- Example: my\_variable\_name

#### **Kebab-case**

- All lowercase letters. Separate words with hyphens. Used for HTML and CSS.
- Example: my-variable-name

### **Keep a Good and Short Name**

- Choose names that are descriptive but not too long. It should make it easy to understand the variable's purpose.
- Example: age, firstName, isMarried



## Practice Exercise

### Variable Naming

- username
- totalAmount
- 99balls
- User3
- first name
- new
- function
- \_score
- maxHeight
- user-name

- \$budget
- class
- 2024Year
- last\_name
- Count99
- user@name
- boolean
- var
- indexValue
- tempVar

## Practice Exercise (Solution)

### Variable Naming

- username
- totalAmount
- 99balls Incorrect, cannot start with a number.
- User3
- first name Incorrect, contains a space.
- new Incorrect, uses a reserved keyword.
- function Incorrect, uses a reserved keyword.
- \_score
- maxHeight
- USET-Name Incorrect, hyphens are not allowed.

- \$budget
- Class Incorrect, uses a reserved keyword.
- 2024Year Incorrect, starts with a number.
- last\_name
- Count99
- **USET@name** Incorrect, special characters like @ are not allowed.
- boolean Incorrect, uses a reserved keyword.
- Var Incorrect, uses a reserved keyword.
- indexValue
- tempVar

# Updating Values

```
let noOfStudents = 5;
noOfStudents = noOfStudents + 1;

let money = 1;
money += 5; // money = 6
money -= 2; // money = 4
money *= 3; // money = 12
money /= 4; // money = 3
money++; // money = 4
```

- 1. Do not need to use let again.
- 2. Syntax: variable = variable + 1
- 3. Assignment Operator is used =
- 4. Short Hand Assignment Operators:

```
+=, -=, *=, /=, ++
```

# Myntra Bag Exercise

Add to Bag

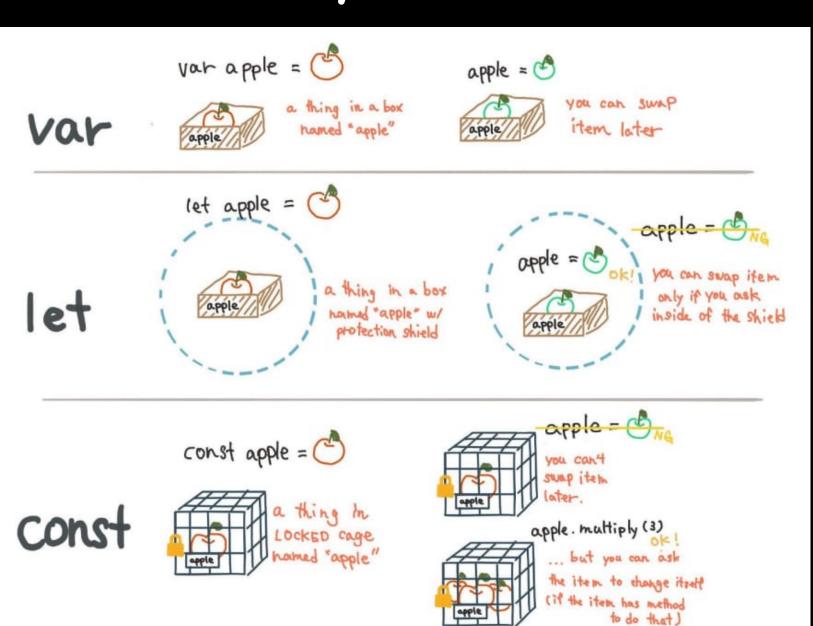
MOVE TO WISHLIST

Add 1+1 sale item

### Your Bag has 2 items

- 1. Implement the above three buttons
- 2. Add to Bag should add an item to the bag
- 3. Move to wishlist should remove an item from the bag
- 4. Add 1+1 sale item should add 2 items to the bag

## Ways to Create Variables



const let var

### Practice Exercise

### Variables

- 1. Save your name in a variable inside script tag
- 2. Display name from the variable on the page
- 3. Calculate the cost of Myntra Bag and keep it in a variable
- 4. Show it to console
- 5. Keep GST percentage as constant
- 6. Use eval method from math to convert string calculation into result



# Project: Calculator

