JS - 1

Why ?
- Most popular technologies

Earlier
- Web pages come alive

Now
- Backend — Node js
- Machine Learning — Tensor flow lib for JS

- Games
- 3D animations — three.js
- Mobile Apps — React Native & Ionic
- Robots & Drones
- Desktop Applications — Electron JS
- VR & AR apps
- AI — ChatGPT
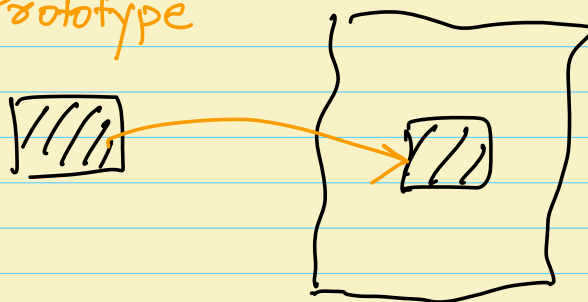
Jeff Atwood

What ?
MDN Docs — Mozilla Community
JavaScript
- Prototype based ✓
- Multi Paradigm ✓
- Single threaded ✓
- Dynamic language ✓
- Supporting
  - Object Oriented
  - Imperative &
  - Declarative programming styles } Multi Paradigm

Prototype

Imperative

Q. How many students from Bengaluru

```
total_students = 100
counter = '
loop through total_students:
    if students[counter].place == 'Benga..."
        ans.apped(student[counter])

return ans
```

Imperative: What to do & how to do

Declarative:

```
return total_students.filter(student.place ==
                                    'Bengaluru')
```

What to do //

→ JS is governed by specifications
   called as ECMAScript

How does it run?
   - any device or sys that has
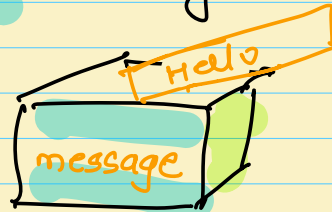   JavaScript engine

Some ex

- V8 — Chrome (Node .)
  SpiderMonkey - Firefox
  Chakra — IE

Creating Variables

var, let, const

let message = 'Hello'

https://codesandbox.io/s/dreamy-robinson-8pemze?file=/src/index.js

↑
Code link