



Hands On Workshop

By Vijay Shivakumar



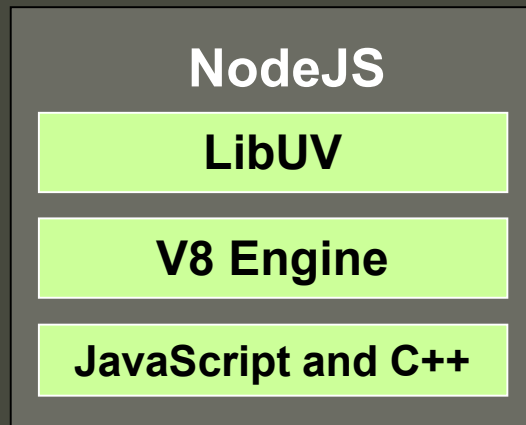
What is NodeJS ?



It is a server-side JavaScript platform

Helps develop scalable network applications.

Its fast because its mostly C/C++



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NodeJS

LibUV

Was adapted in windows version of NodeJS to replace UNIX libraries

V8 Engine

Google's JavaScript processing engine

JavaScript and C++

Most of builtin modules are developed using JavaScript or C++

How node works ?



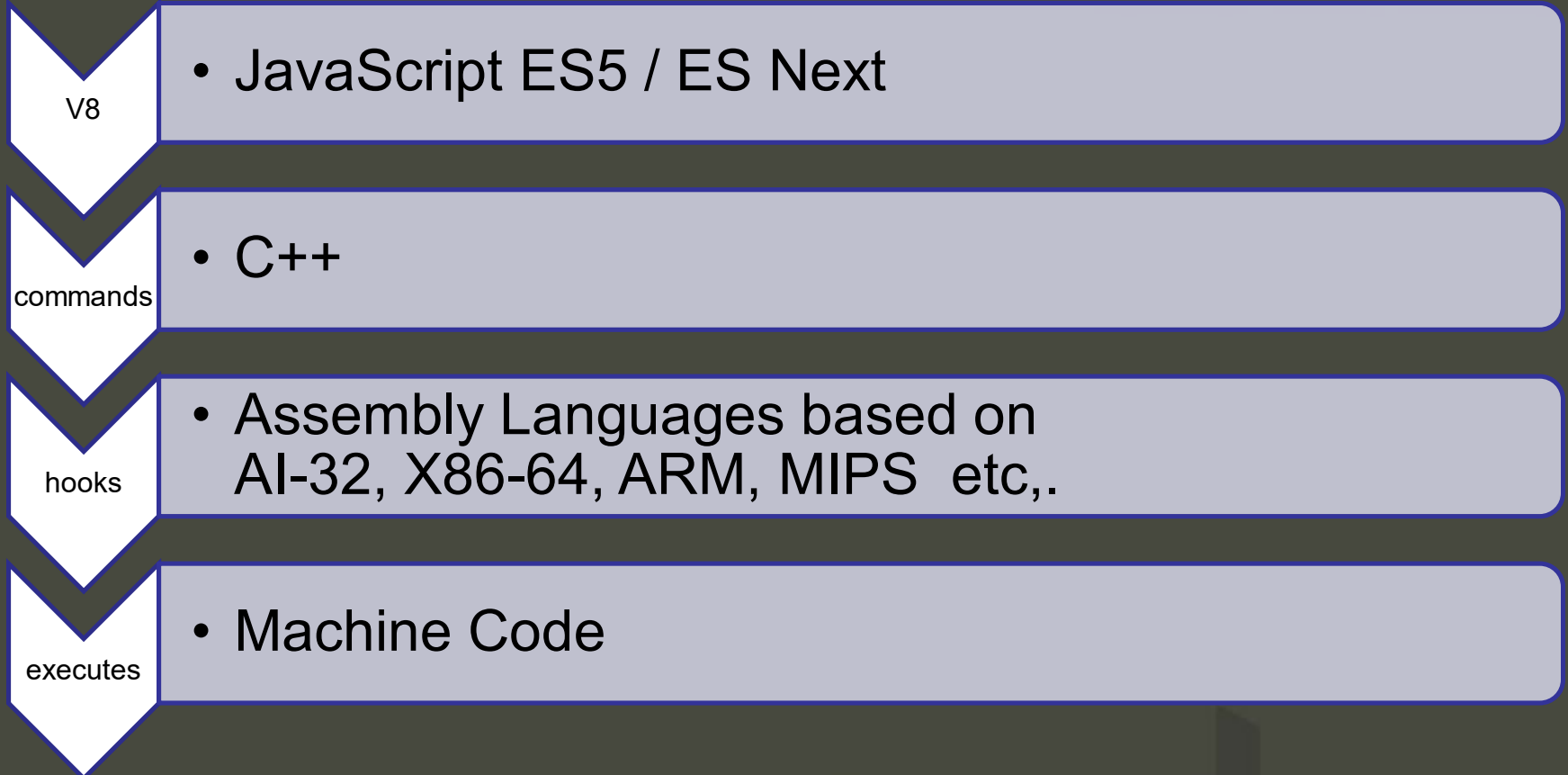
V8 is an open source program written by Google. V8 is used inside chrome to understand JavaScript sent from a web server to your browser.

V8 is usually referred as a JavaScript engine
Because it takes JavaScript as input and converts it to machine code using ECMA standard

It supports AI-32, X86-64, ARM, MIPS etc.,



How NodeJs Works ?



Who ?



Created by Ryan Dhal in the year 2009

He first spoke about it in JS Conf

Since then the growing community of
NodeJS users have been contributing
modules



Where can I use it ?



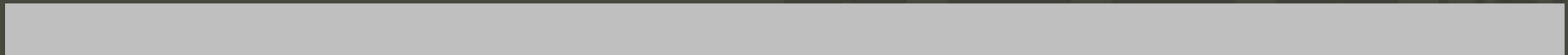
Real time data app that requires frequent updates

Fast file upload

Ads Server application

Multiplayer Games

Web Socket Applications (chat / meeting)



NodeJS is not

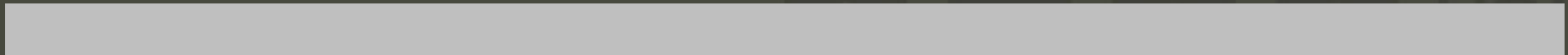


A web framework

Multi threaded (its a single threaded server)

For everyone

For every project



Lets the Fun begin



No Window

Global

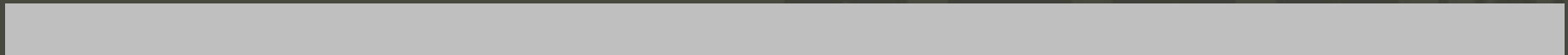
No Document

Require

No Location

Module

Process



Lets the Fun begin



REPL : Read Evaluate Print Loop
variables

Blocking v/s Non Blocking

Fetch data

Display content

Continue

Blocking Code

Fetch data

Let me know when it comes
continue

Non Blocking Code

Event loop in node

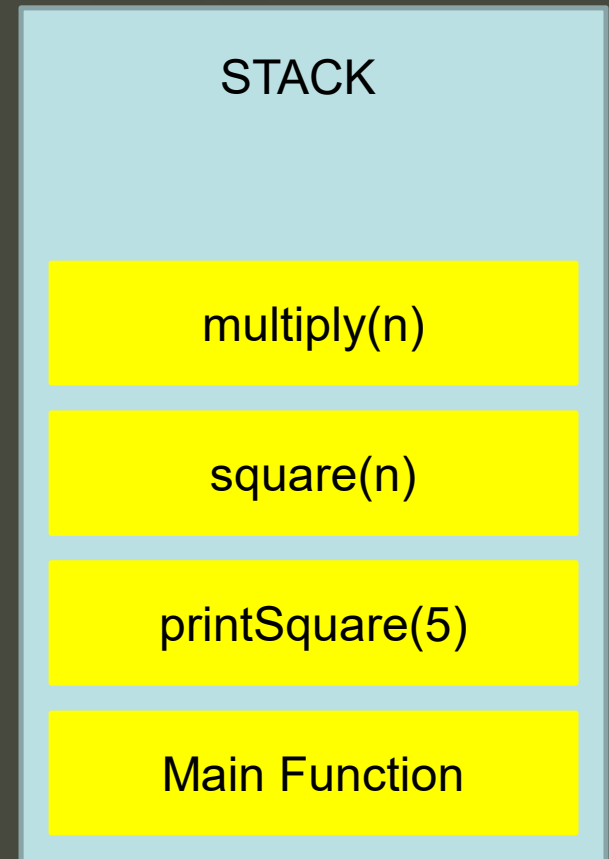


```
function multiply(a, b){  
  return a * b;  
}
```

```
function square(n){  
  return multiply(n,n);  
}
```

```
function printSquare(n){  
  var squared = square(n);  
  console.log(squared);  
}
```

```
printSquare(4);
```





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