Javascript 1

- [Video Title/Content](https://youtu.be/) – https://youtu.be/
- Notes
  -
- Example Code
  -
- Process
  1. abc

– 17 Aug

Javascript
- programing language
- 1st appeared in browsers to facilitate interactive web pages
- Javascript uses
  - Web/Mobile Apps
  - Networking Apps
  - Command-line Tools
  - Games
- Java Script code can be run in:
  - Browsers
    - FireFox – SpiderMonkey
    - Chrome – V8
    - Explorer – Chak'a'ra
    - Safari – Nitro
  - Node – JS engine from Chrome embedded in C++
- First JavaScrip code:
  console.log('Hello Planet');
  undefined
  2+2
  4

```
    alert('Da Flip');
    alert('Da Flip!');
```

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How Javascript works – https://youtu.be/
b1ieJtIx1NY
- Browser "programs" – client side compilers
  (JIT)
  - DOM interpreter – converts HTML to be
    displayed
  - CSS interpreter – styles the page
  - Javascript engine – convert .js files
    into byte code run on the client machine

- JavaScript Tutorial for Beginners: Learn
  JavaScript in 1 Hour – https://youtu.be/
  W6NZfCO5SIk
- Notes
  - initially used to add interactivity to
    webpages
  - runs – in a browser or Node
    - on a js engine in browsers
    - Node ryan dole – engine from Chrome V8
      engine, pass to node for execution
  - ECMAScript – ECMA6
  - IDE Visual Studio
  - Node
  - writing js code in an html document
    needs a script element
    - in the head section
    - in the body section at the end after
      all of the existing elements
      1. a browser parses an html document
      starting at the top putting the js
      code after the html code allows the
      html to be rendered 1st (this could be

an advantage if you want the page to load the visual elements all at once as opposed to in stages??)
2. usually the js code elements need to communicate with the other elements, to do this it those other elements should load 1st.

This package has installed:
- Node.js v10.16.3 to /usr/local/bin/node
- npm v6.9.0 to /usr/local/bin/npm

Make sure that /usr/local/bin is in your $PATH.

- ◆ comments should explain "how" & "why"
- ◆ "html – all about content"
- ◆ "javascript – all about behavior"
- ◆ create multiple .js files, create a bundle and "server that bundle to the client"

- Example Code
  - index.html
    - ◆ ! – generates html template (in VS Code)
    - ◆ process.exit(); – exit terminal Node REPL
    - ◆ see Visual Studio index.html
- Process
  1. Visual Studio Code
     1. create example folder, drag into the VS window
     2. create a new document "index.html"
     3. type "!" press enter to generate html template to host our js code
     4. open extension tab – install Live Server