JavaScript

* Java comes out in 1994 and it’s the hip new language
* JavaScript comes out in 1995 called JS because it was a marketing tactic to make people excited
* JS was created by Brendan Eich in 9 days
  + Netscape told him they needed a small easy programming language to make browser dynamic
  + They are some questionable design choices
  + Created with flexibility
    - There is a lack of rules in JS that makes JS very versatile but also very easy to make mistakes

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| Java | JavaScript |
| Ham | Hamster |
| Designed for Scalability | Designed for flexibility |
| Compiled language | Just In time compiled (compiles and executes at the same time) |
| Strongly Typed | Loosely Typed (type coercion possible) |
| Statically typed | Dynamically typed |
| Backend programming language | Mostly a front-end language. JS can also be used to create a backend |
| OOP centric | Multi-paradigm (very functional programming) |
| Access modifiers | No access modifiers in JS |
| Classical inheritance (you have classes that inherit) | Prototypal inheritance |
| No global scope | Does have a global scope |
| String is an object | String is a primitive |
| Automatic Garbage Collection | Automatic Garbage collection |
|  | Event driven language |
|  | Scripting language (tells the browser what to do) |
| Multi threaded | Single threaded (can only execute one statement at a time) |