

Reporte

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Internship



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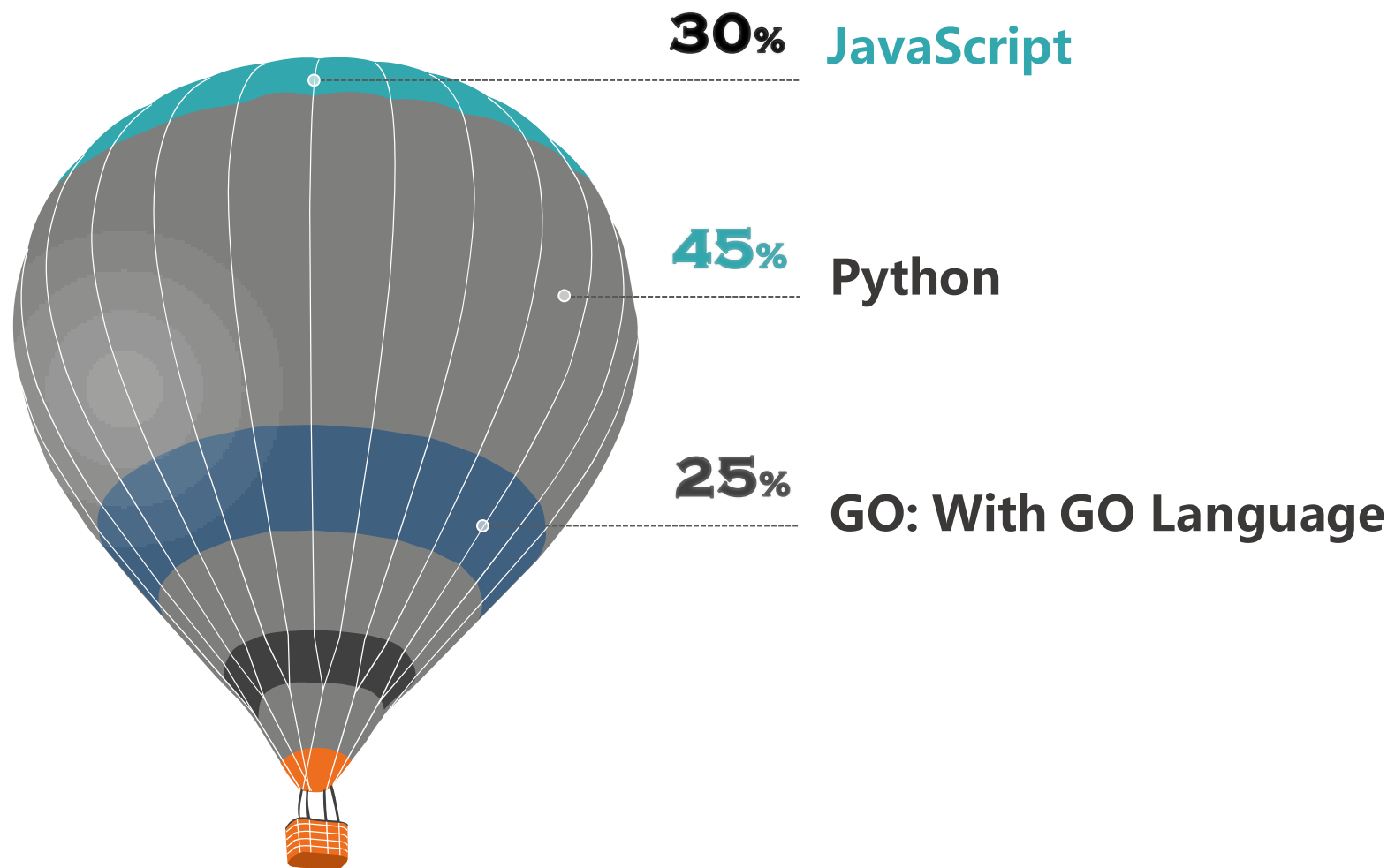
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Introduction

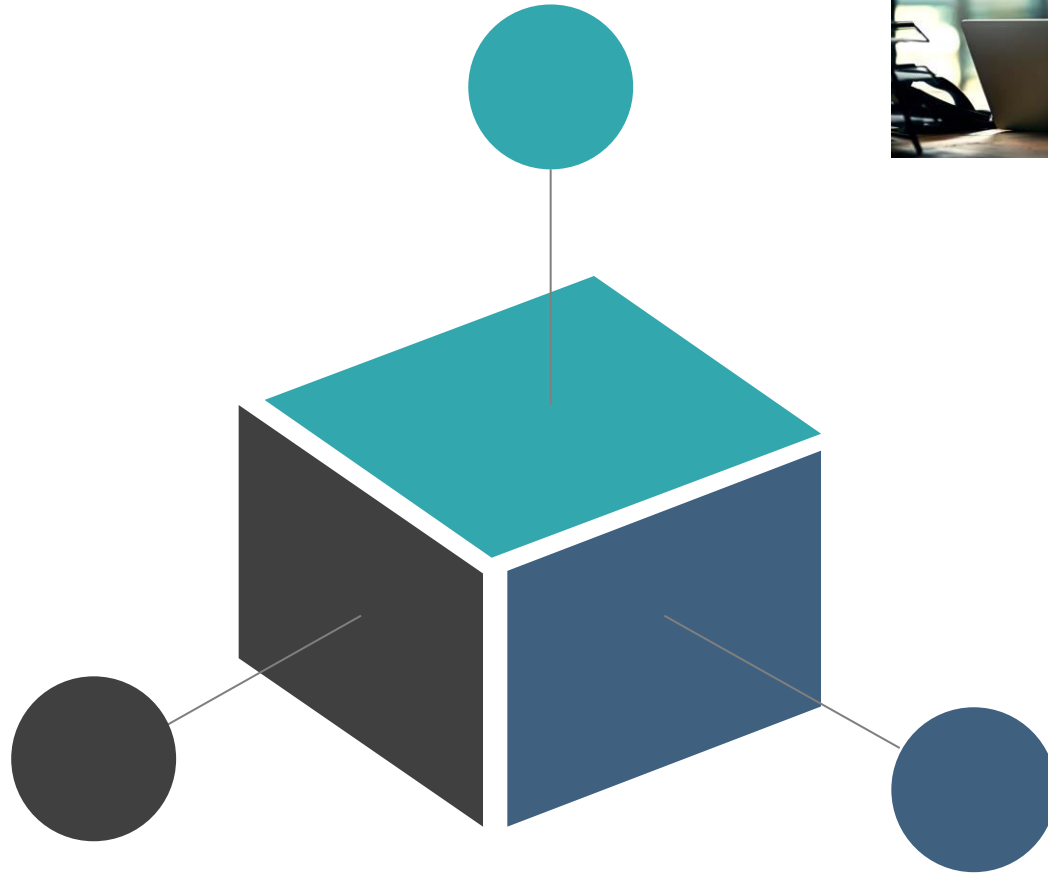


Introduction

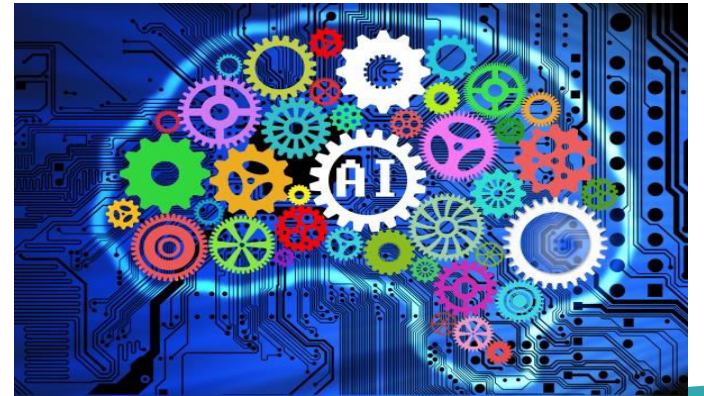
Nobody needs programmers

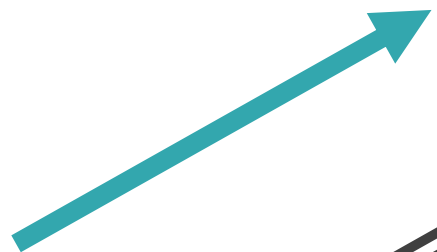


Robotics

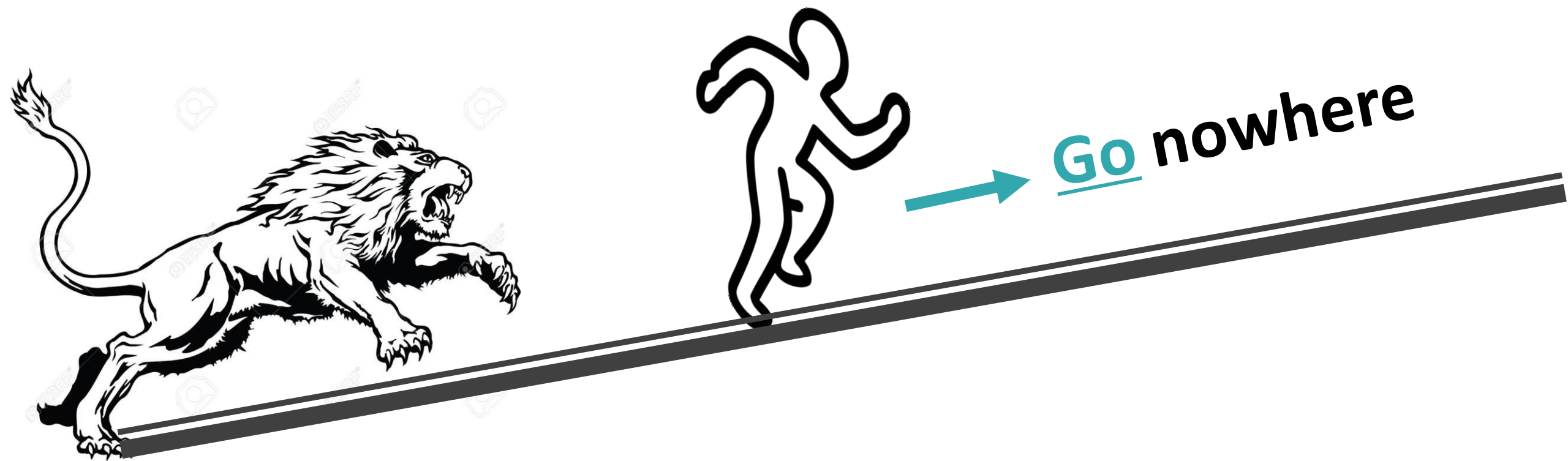


Artificial intelligence



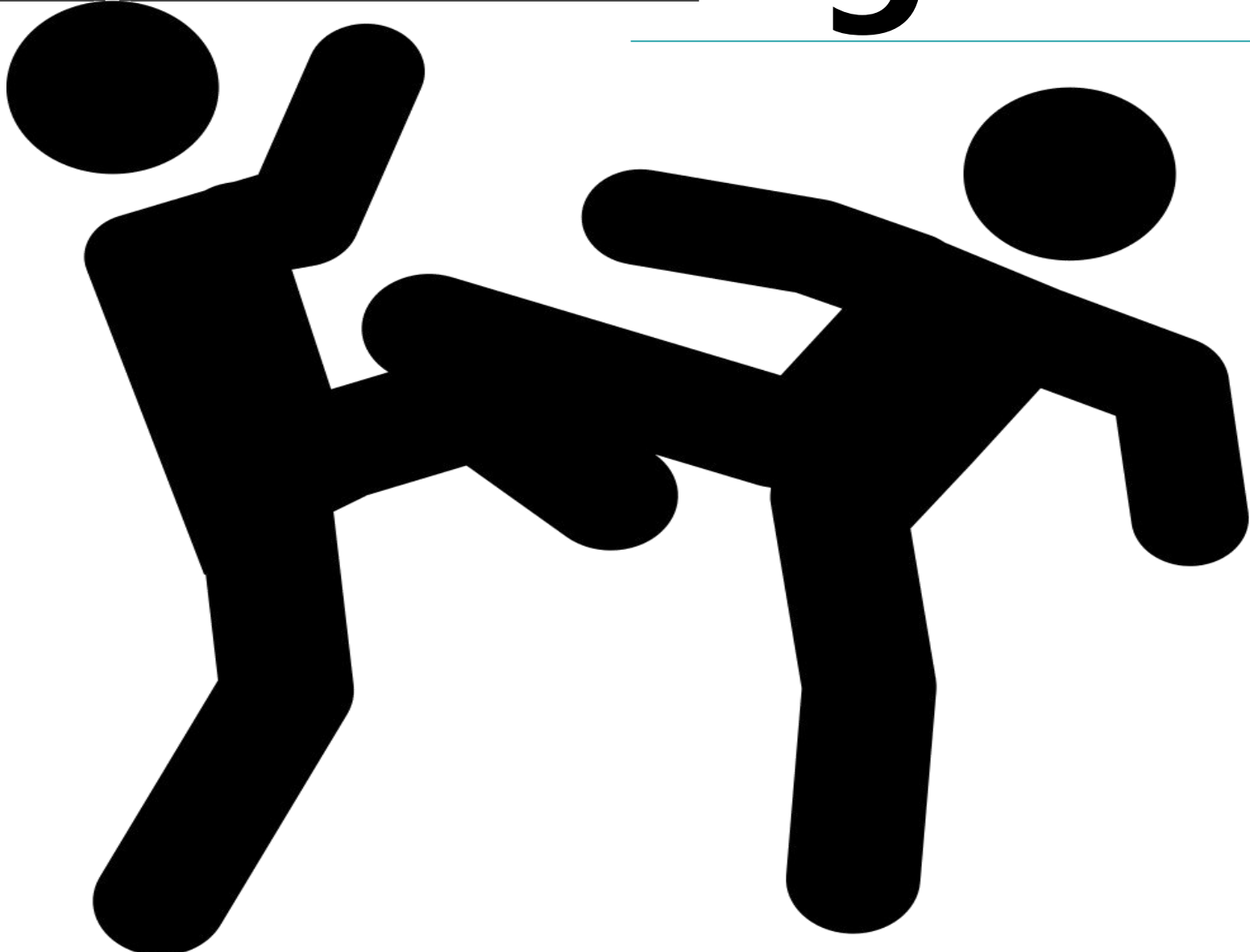


GO to your Goal



Go nowhere

Coder vs Programmer



Computer science



Computer science (sometimes called computation science or computing science, but not to be confused with computational science or software engineering) is the study of processes that interact with data and that can be represented as data in the form of programs. It enables the use of algorithms to manipulate, store, and communicate digital information. A computer scientist studies the theory of computation and the practice of designing software systems.



Its fields can be divided into theoretical and practical disciplines. Computational complexity theory is highly abstract, while computer graphics emphasizes real-world applications. Programming language theory considers approaches to the description of computational processes, while computer programming itself involves the use of programming languages and complex systems. Human–computer interaction considers the challenges in making computers useful, usable, and accessible.

Algorithm

Checking the correctness of the algorithm

Problem definition

Documentation preparation

Designing an algorithm

Program testing

Design

Development of a model

Analysis of algorithm

Implementation of algorithm

Specification of the algorithm



Algorithm

Sorting > Quicksort

parkja814 JavaScript

Search...

Backtracking

Cryptography

Dynamic Programming

Graph Search

Greedy

Minimum Spanning Tree

Number Theory

Search

Sorting

Bubble Sort

Bucket Sort

Comb Sort

Counting Sort

Cycle Sort

Heapsort

Insertion Sort

LSD Radix Sort

Merge Sort (Bottom-Up)

Merge Sort (Top-Down)

Scratch Paper

New ...

Untitled

Tracers API

Fork me on GitHub

Description Visualization

ChartTracer

Array1DTracer

LogTracer

original array = [1, 4, 2, 7, 6, 2, 4, 5, 9, 4, 2, 8, 7, 2, 2]

README code.js +

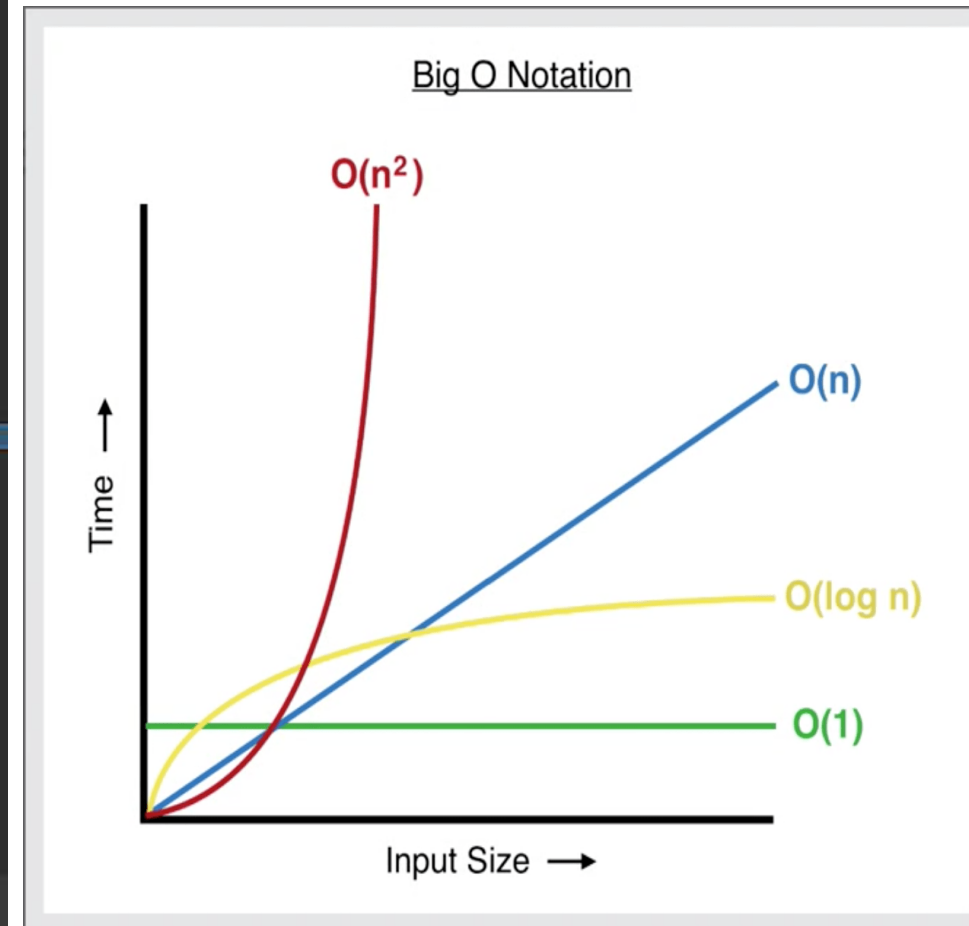
```
1 import { Array1DTracer, ChartTracer, LogTracer, Randomize } from 'algorithms-visualizations';
2
3 const chart = new ChartTracer();
4 const tracer = new Array1DTracer().chart(chart);
5 const logger = new LogTracer();
6 const D = new Randomize.Array1D(15).create();
7 tracer.set(D).delay();
8
9 logger.print('original array = ${D.join(', ')}');
10
11 function partition(D, low, high) {
12   let i;
13   let j;
14   let s;
15   while (high > low) {
16     i = low;
17     j = high;
18     s = D[low];
19     while (i < j) {
20       tracer.select(high).select(low).delay();
21       while (D[j] > s) {
22         tracer.select(j).delay();
23         tracer.deselect(j);
24         j--;
25       }
26       D[i] = D[j];
27       tracer.patch(i, D[j]).delay().depatch(i);
28       while (s >= D[i] && i < j) {
29         tracer.select(i).delay();
30         tracer.deselect(i);
31         i++;
32       }
33       D[j] = D[i];
34       tracer.patch(j, D[i]).delay().depatch(j);
35       tracer.deselect(high).deselect(low);
36     }
37     D[i] = s;
38     tracer.patch(i, s).delay();
39     tracer.depatch(i);
40     partition(D, low, i - 1);
41     low = i + 1;
42   }
43 }
44
45 function quicksort(D) {
46   partition(D, 0, D.length - 1);
47 }
```

Contributed by parkja814 imkimchi TorqIV

Delete File

JSAV. The JavaScript Algorithm Visualization Library

<http://jsav.io/>



Web development



Web development is the work involved in developing a web site for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex web-based internet applications (web apps), electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/server-side scripting, web server and network security configuration, and e-commerce development.



Front-end Developer

A front-end developer is a web developer that codes the front end of a website. While web design is the way a website looks, front end development is how that design actually gets implemented on the web. The pages of the internet are a sum of layers—structure, data, design, content, and functionality.

Back-end Developer

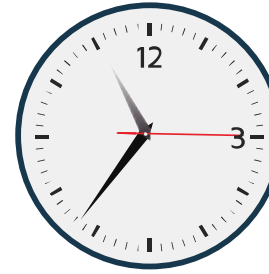
A back-end developer is a type of programmer who creates the logical back-end and core computational logic of a website, software or information system. The developer creates components and features that are indirectly accessed by a user through a front-end application or system.



Full Stack Developer

A full stack web developer is a person who can develop both client and server software.





Discipline

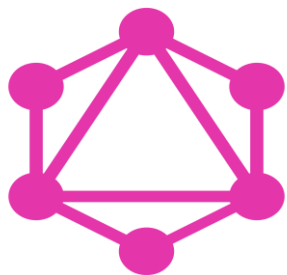


Time

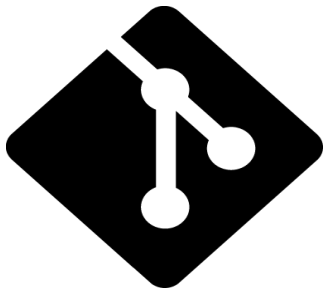
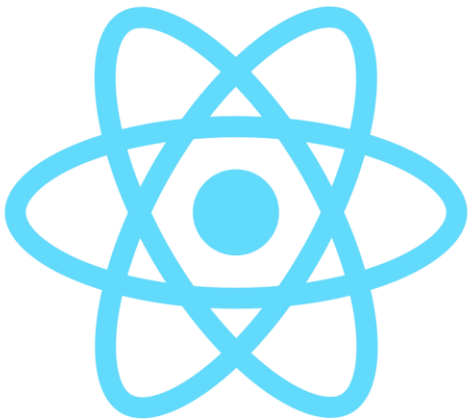


Diligence

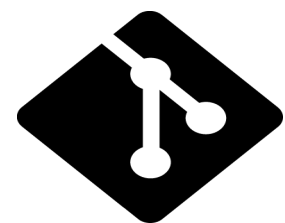
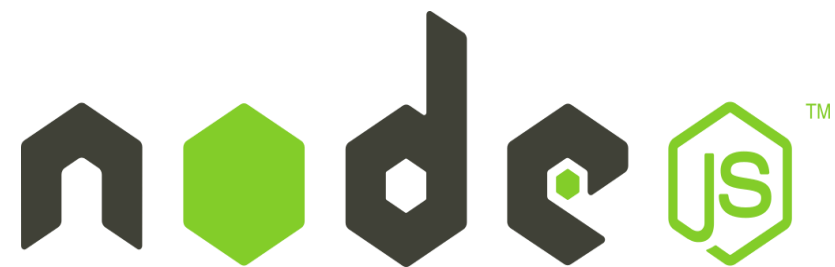
Front-end



APOLLO



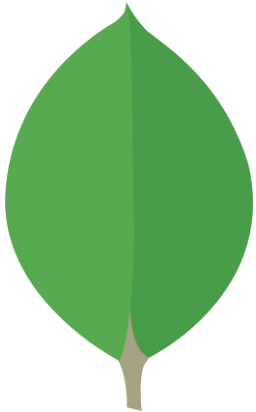
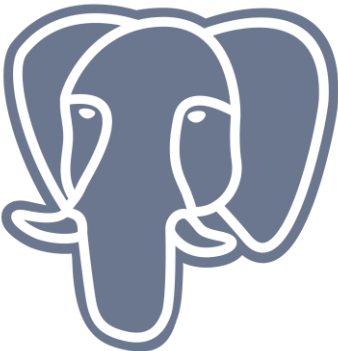
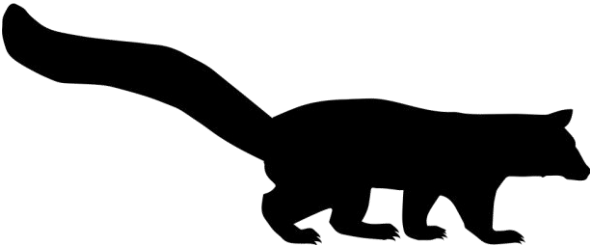
Back-end



express



REST APIs



Thank You

