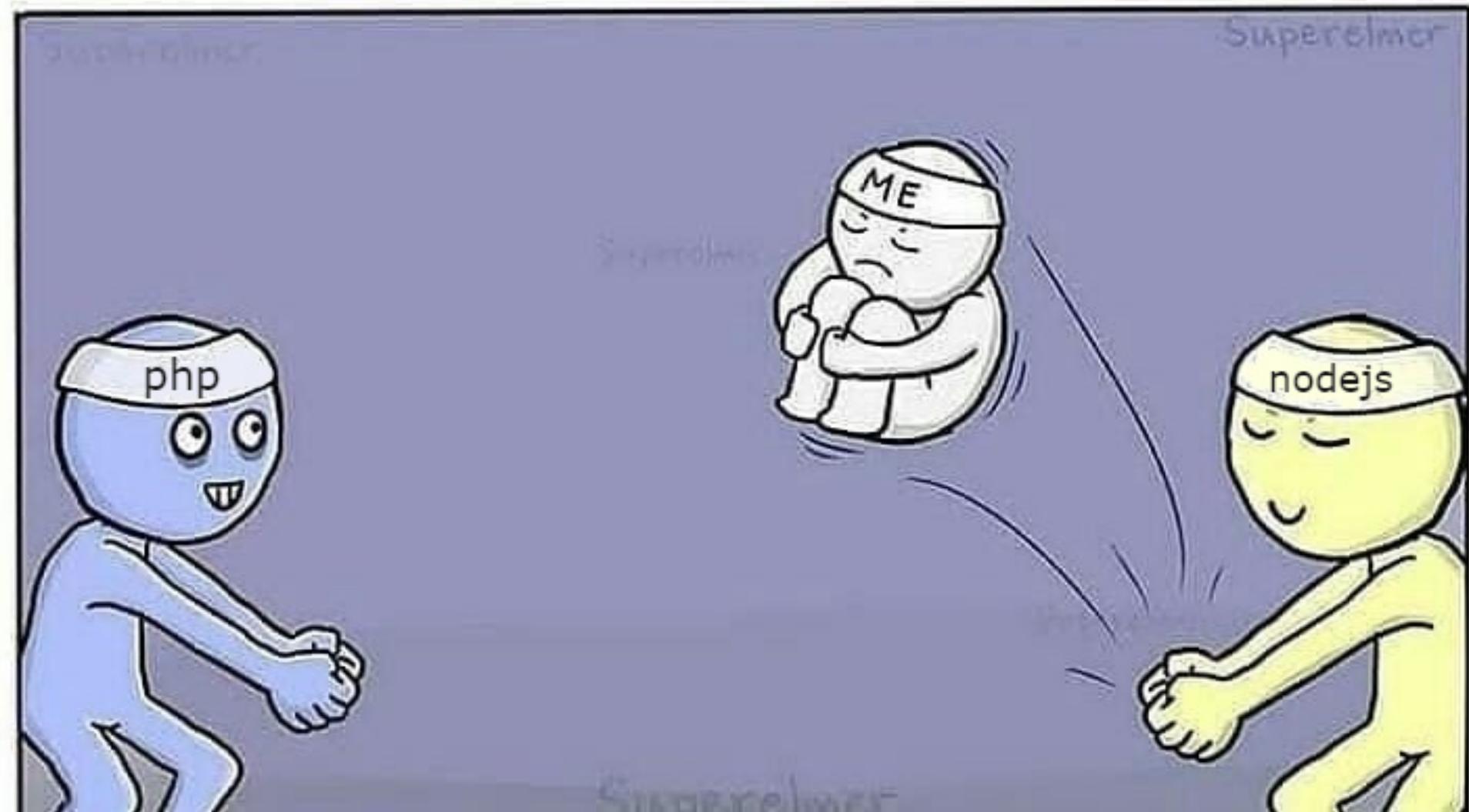
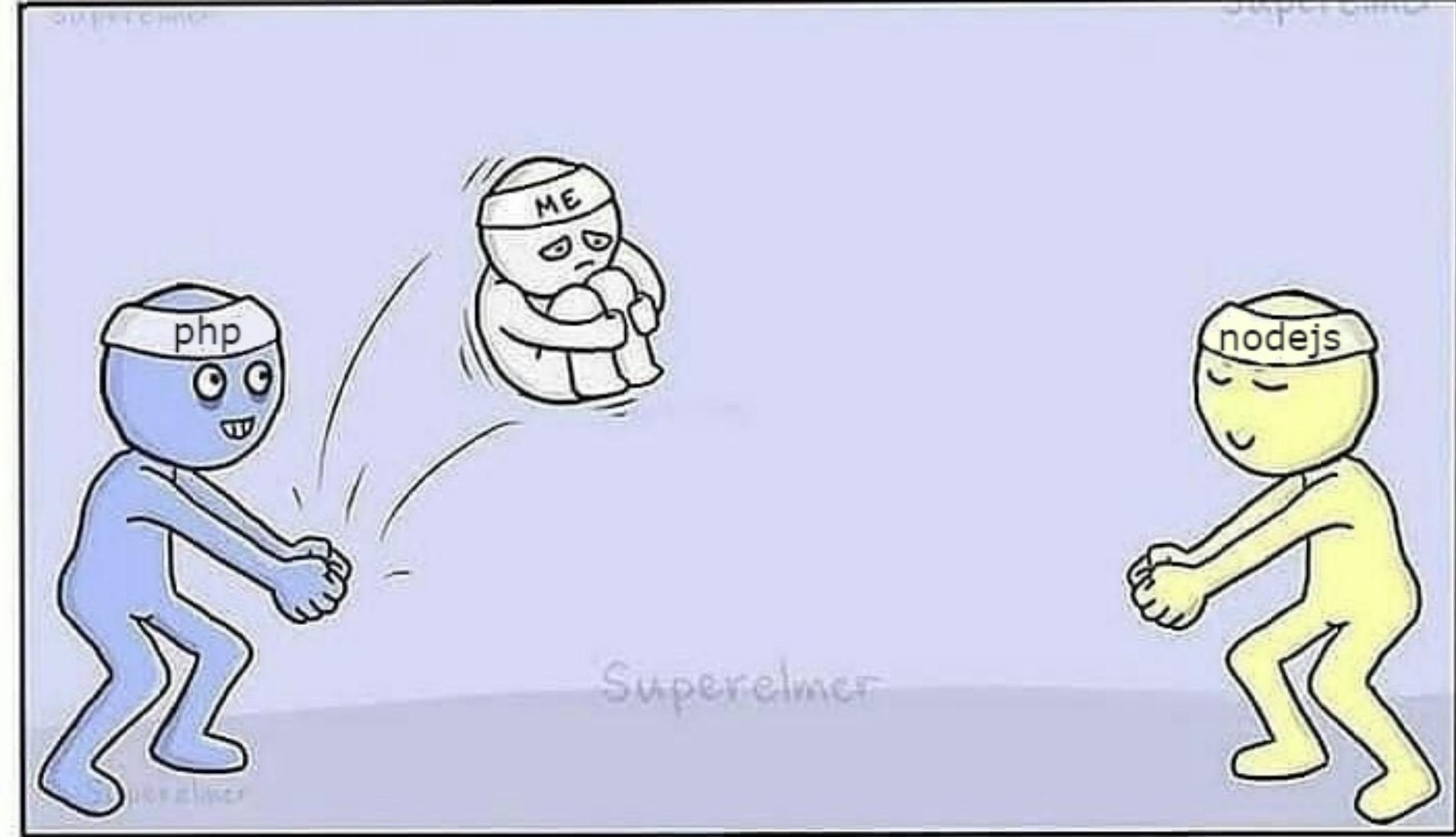


HELLO







Objective - C



Filters



How I Would Learn To Code (If I Could Start Over)

4M views • 8 months ago

Namahn Kapur ✓

If I could go back in time and learn to code, I would do a lot of things differently. If I could start over,...

4K

Intro | Part 1: Your mindset | Adopt a coding mindset | Learn ho... 15 chapters ▾



How I would learn to code (If I could start over)

2.1M views • 5 months ago

Jason Goodison ✓

Starting in Special Ed and ending at Microsoft (so far), my journey into Software Engineering was di...

Intro | Langs I learned | Most useful languages to know | My poi... 10 chapters ▾



How I would learn to code (If I could start over)

460K views • 7 months ago

Power Couple ✓

Today I will share how I would learn coding step by step if I had to start from ZERO again. This video will answer following ...

4K CC



How I would learn to code (if I could start over)

621K views • 4 months ago

PIRATE KING ✓

Timeline ⏸ 0:00 Intro 0:14 Number 1: Do it 0:53 Number 2: Build Your Career Early 1:48 Number ...

Intro | Number 1: Do it | Number 2: Build Your Career Early |... 13 chapters ▾



How I would learn to code (if I could start over)

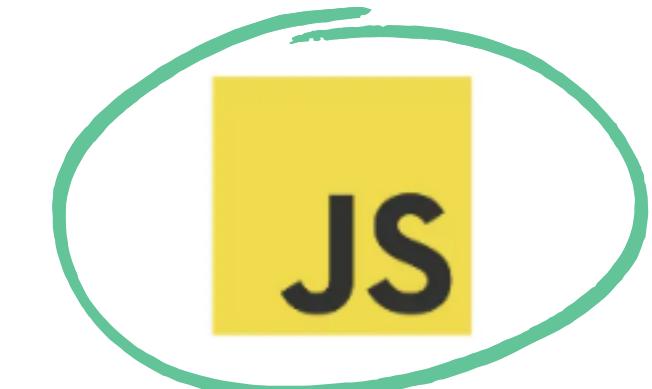
805K views • 1 year ago

Nick White ✓

#NickWhite #Coding #Programming.

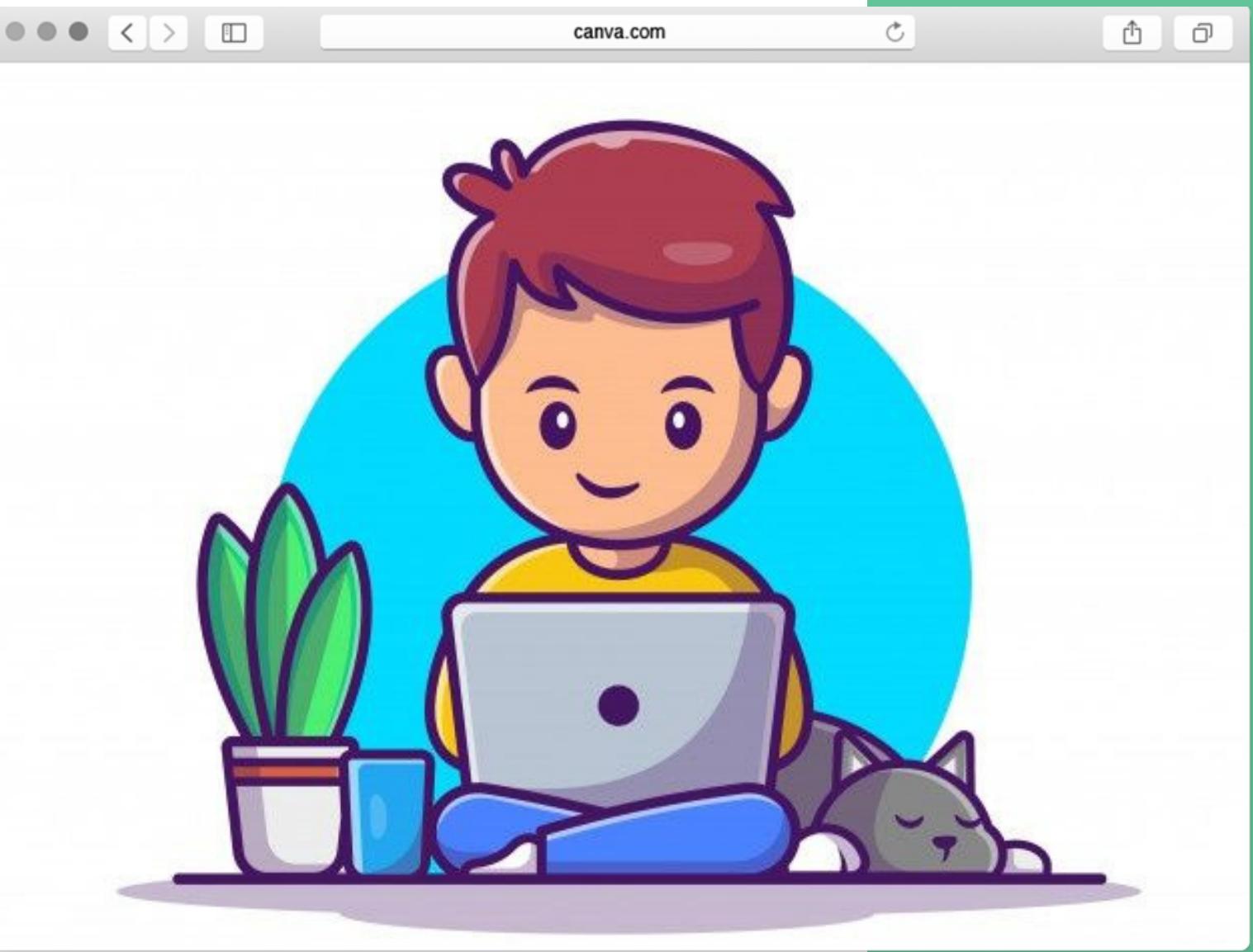


Objective - C



How To Choose **Your First** Programming Language?

PHP, Node.js, or Python?



Quick Overview

1



PHP



</>

- 1 Acronym for Hypertext Preprocessor.
A popular general-purpose scripting language that is especially suited to web development. <https://www.php.net/>
- 2 An open-source server-side script language created in 1994 by Rasmus Lerdorf.
- 3 A recent survey revealed that PHP is used by **77.7%** of all websites with a server-side programming language.
https://w3techs.com/technologies/overview/programming_language
- 4 Most popular platforms for creating websites that need a back-end Content Management System (CMS), such as WordPress, Drupal, and Joomla, are all written in PHP.
- 5 WordPress powering **43%** of all sites on the web in 2021.
<https://w3techs.com/technologies/details/cm-wordpress>
- 6 Widely used in freelancing, and **used mainly in web development** to create dynamic websites and applications.

Node.js

<https://nodejs.org/>



</>

It's an open-source, cross-platform runtime environment. It executes JavaScript code beyond the boundaries of a web browser. Node.js allows developers to use JavaScript to write command-line tools and server-side scripting (running server-side scripts to create dynamic web page content before sending the page to the visitor's browser).

2

It was developed by Ryan Dahl in 2009 as a way of **developing scalable and fast applications** and is growing in popularity in the dev community very quickly.

3

Works seamlessly with MERN/MEVN/MEAN stacks, as all use JS.

4

Used for **server-side programming**; Single Page Applications, Data-Intensive Real-time Applications, I/O bound Applications, JSON APIs based Applications, Data Streaming Applications.

Python



- 1 Created by Guido van Rossum, and was first released on February 20, 1991. The name Python came from an old BBC television comedy series.
- 2 It's a general-purpose (capable of creating so many types of programs), high-level (designed to be easily understood by humans), and object-oriented programming language.
- 3 Python can be used for **developing websites and software, task automation, data analysis, data visualization, AI, machine learning, game development...**
- 4 Since its clean syntax, and easy-to-learn nature, Python has been adopted by many non-programmers such as accountants and scientists, for a variety of everyday tasks, like organizing finances.

<https://www.python.org/about> <https://pythoninstitute.org/about-python>

Pros & Cons

2



PHP

- Scalable.
- Fast; According to many experts, almost three times as fast as Python.

<https://anywhere.epam.com/business/pros-and-cons-of-php>

- Supported by many internet hosting service providers.
- Easy to configure the development environment and process.
- It automates common web development tasks.

- PHP is web-oriented, and it works only at the backend of your website.
- Lacks debugging tools, which are needed to look for errors and warnings. PHP has less number of debugging tools in comparison to other programming languages.
- PHP is a pretty easy-to-use programming language. If you're already a developer you'll master it in no time. However, this language is written like code. When you compare it to Python, which is written like English, you realize that even a beginner can grasp Python. Hence, even though PHP is easy to understand, there are easier languages out there.

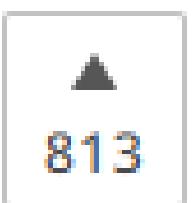
What developers say...

<https://stackshare.io/php>



948

Large community



813

Open source



763

Easy deployment



484

Great frameworks



384

The best glue on the web



234

Continual improvements



183

Good old web



145

Web foundation



134

Community packages



124

Tool support



35

Used by wordpress



33

Excellent documentation



28

Used by Facebook



23

Because of Symfony



21

Dynamic Language



NODE.JS

- Can process multiple functions and events in parallel.
- It is great for building any custom solution.
- It uses JavaScript, so a single language is used throughout the whole application, including the backend and front-end, making code operations very convenient.
- Due to any, architecture scalability can be seamlessly achieved.
- Permits the establishment of a real-time client-server connection.
- Programs with features that don't blend well with Node's characteristics are not a good fit (ex: blocking, processor-intensive, and computational-intensive programs)
 - CPU-intensive tasks (ex: photo manipulation, video compression, Heavy Computational Applications (ex: Fibonacci algorithm); Whenever a heavy request comes to the event loop, Node.js would set all the CPU available to process it first, and then answer other requests queued. That results in slow processing and overall delay in the event loop, which is why Node.js is not recommended for heavy computation.

0,1,1,2,3,5,8,13,...

Fibonacci series using recursion



```
public class Fibonacci {  
  
    public static int fib(int n) {  
        if (n <= 1) return n;  
        else return fib(n - 1) + fib(n - 2);  
    }  
  
    public static void main(String[] args) {  
        for (int i = 0; i < 10; i++) {  
            System.out.println(fib(i));  
        }  
    }  
}
```

What developers say...

<https://stackshare.io/nodejs>



Npm



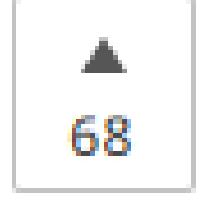
High-performance



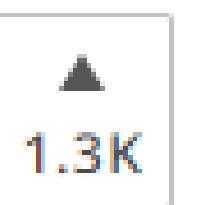
Asynchronous



Great for command line utilities



Uber Simple



Javascript



Open source



Great community



Websockets



Great modularity



Great libraries



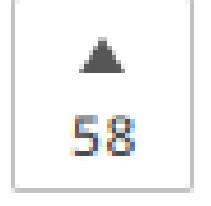
Great for apis



Great for realtime apps



Node Modules



Allows us to reuse code in the frontend

PYTHON

- Less coding.
- More readable.
- Simple syntax.
- Stability and compatibility.
- High level of security.
- A general-purpose.
- Slower Speed.
- Not Ideal for Memory-Intensive Tasks
(Due to the flexibility of the data types,
Python's memory consumption is high).

What developers say...

<https://stackshare.io/python>



1.1K

Great libraries



947

Readable code



835

Beautiful code



780

Rapid development



682

Large community



426

Open source



385

Elegant



278

Great community



268

Object oriented



214

Dynamic typing



75

Great standard library



56

Very fast



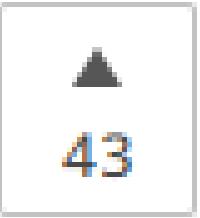
51

Functional programming



43

Scientific computing



43

Easy to learn

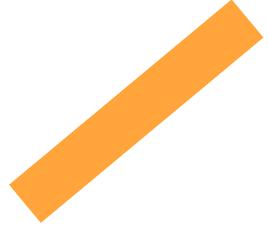


PHP vs Node.js vs Python

3



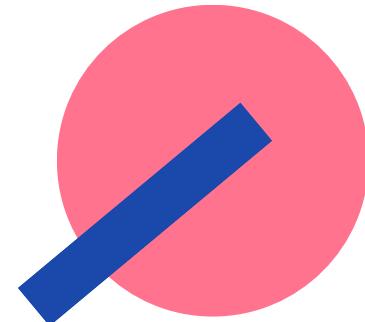
What metrics we are going to measure with?

- 
- 
- 
1. Easier to learn
 2. More in salary
 3. More freelance jobs
 4. Fastest
 5. Most popular and loved programming language
 6. Most popular framework
 7. Famous applications
 8. Community

Resources:

- <https://www.tiobe.com/tiobe-index/>
- <https://survey.stackoverflow.co/2022/>
- <https://insights.stackoverflow.com/survey/2021>
- <https://statisticsanddata.org/data/most-popular-backend-frameworks-2012-2022/>
- <https://medium.com/quick-code/php-vs-python-which-is-best-for-web-applications-in-2021-b7ad3fe0743a>
- <https://www.clickittech.com/developer/node-js-vs-python/>
- <https://hackr.io/blog/python-vs-php>
- <https://distantjob.com/blog/nodejs-vs-php/>
- <https://www.clickittech.com/developer/node-js-vs-python>
- <https://doit.software/blog/nodejs-vs-php>
- <https://kinsta.com/blog/php-vs-python/>

Easier to learn



Python, Nodejs

PHP syntax:

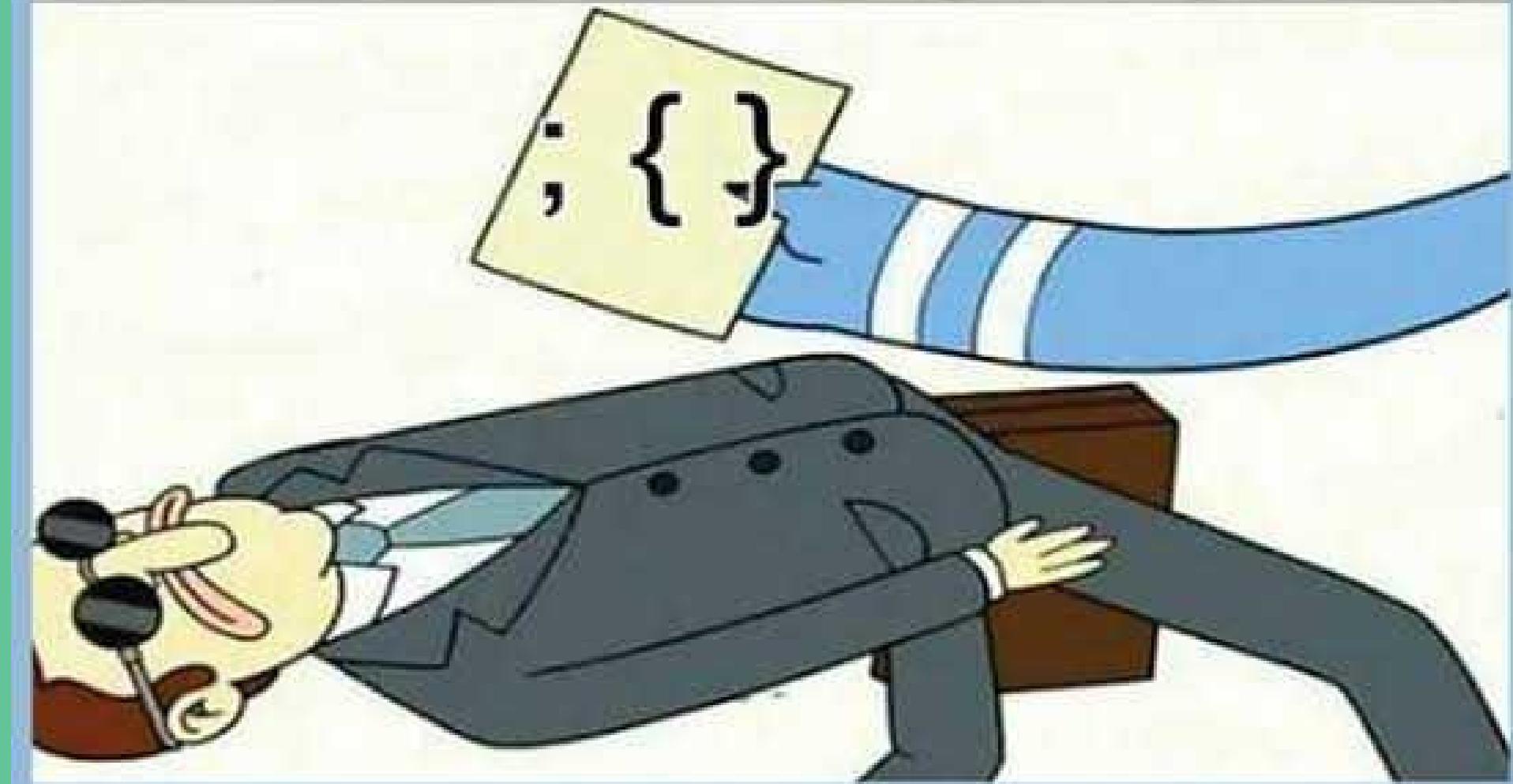
Its syntax can be a bit complex. It uses curly braces, naming rules, \$ symbol before variables, and so on.

While in Python:

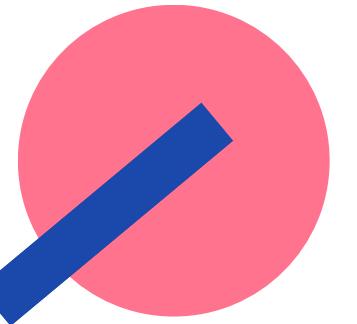
Its syntax is crisp and clear. No usage of curly braces and no need to define variables.

As Python's creator said, the delight of Python is its short, readable, and concise classes that exhibit a lot of action.

Node.js: JavaScript



More in salary



Salaries Survey

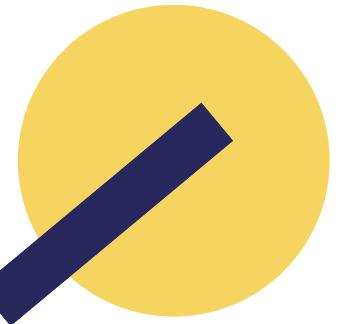
<https://insights.stackoverflow.com/survey/2021>

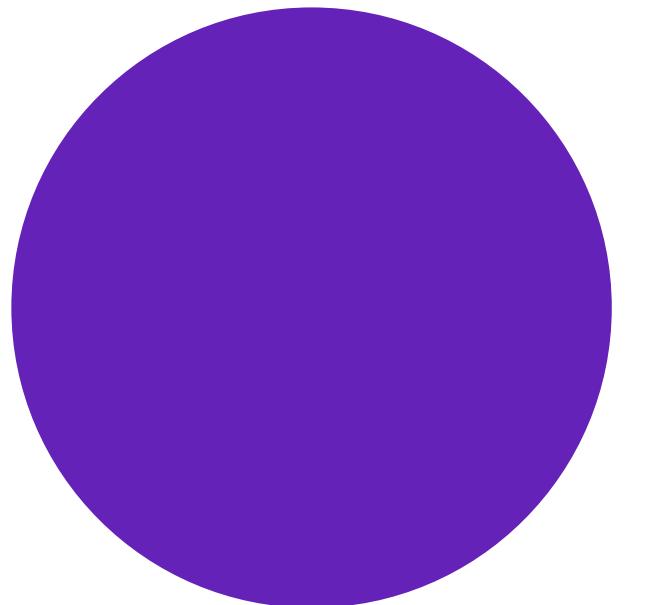


More Freelance Jobs



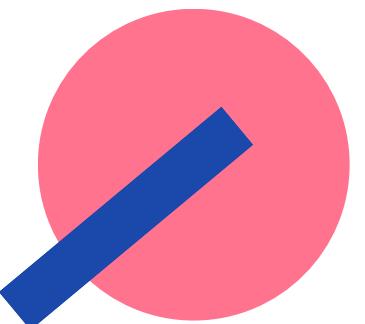
PHP

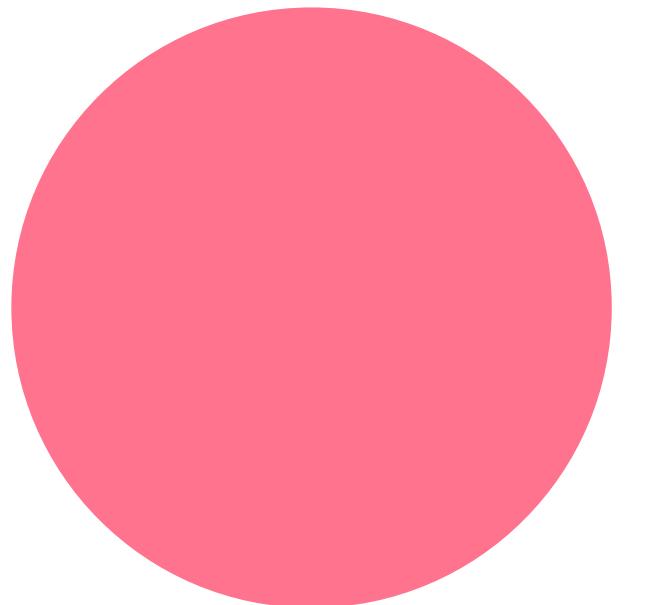




Fastest ⚡

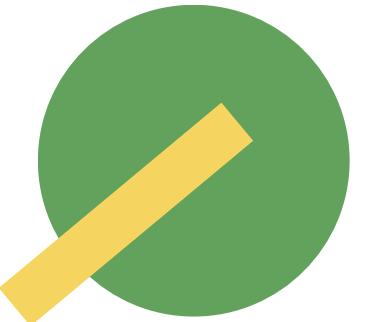
Node.js > PHP > Python





Most popular & loved 🥰
programming language (2022)

Python > JS > PHP



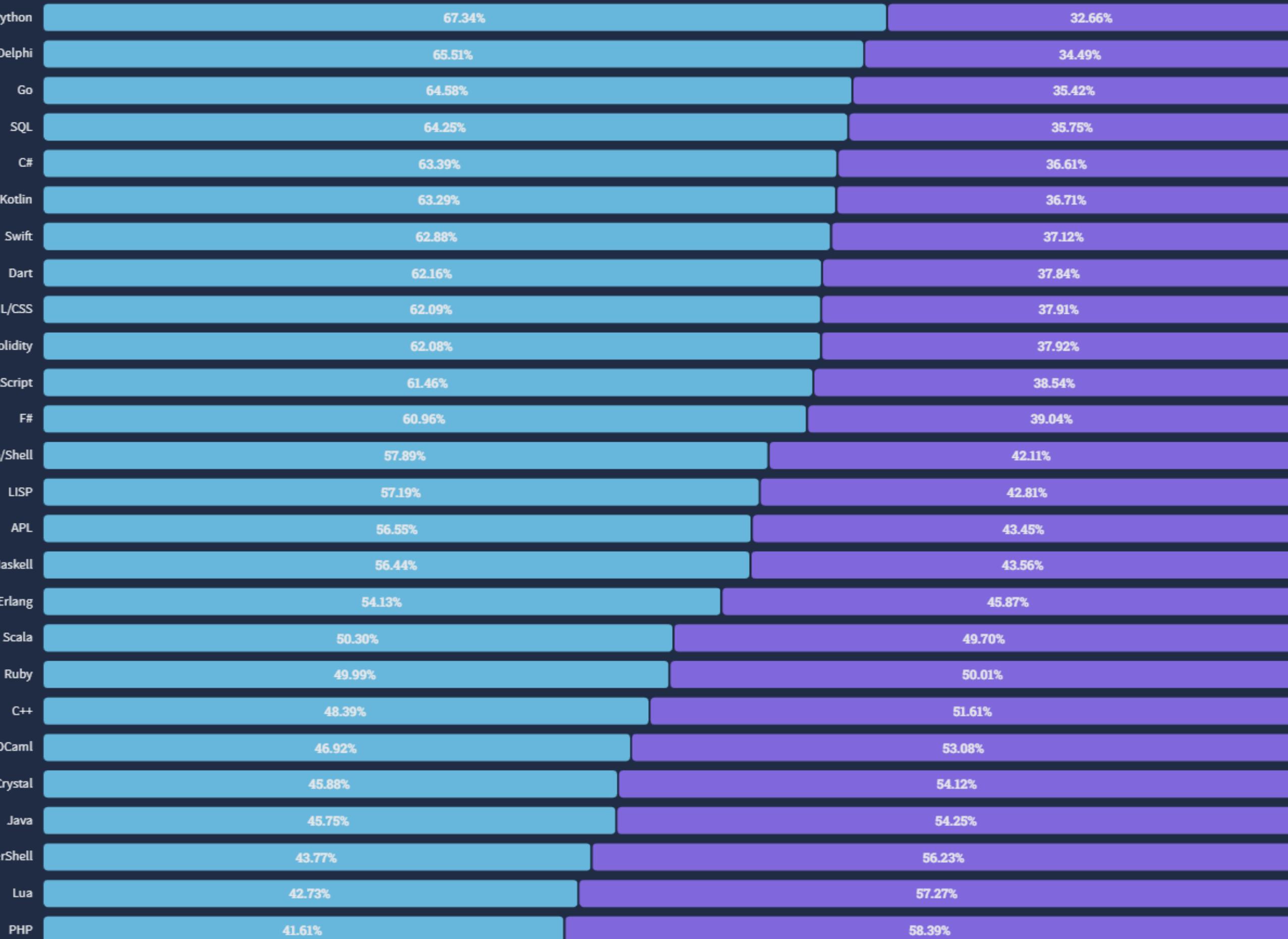
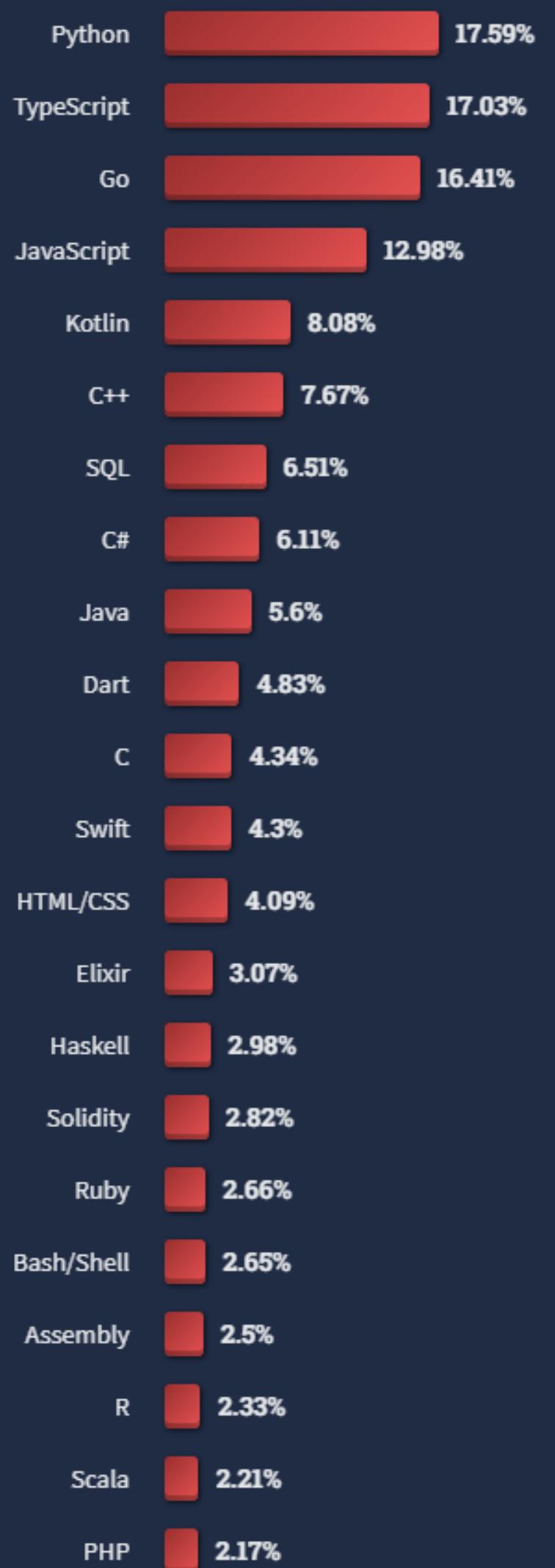
Popularity of Programming Languages

<https://www.tiobe.com/tiobe-index/>

Dec 2022	Dec 2021	Change	Programming Language	Ratings	Change
1	1		 Python	16.66%	+3.76%
2	2		 C	16.56%	+4.77%
3	4	▲	 C++	11.94%	+4.21%
4	3	▼	 Java	11.82%	+1.70%
5	5		 C#	4.92%	-1.48%
6	6		 Visual Basic	3.94%	-1.46%
7	7		 JavaScript	3.19%	+0.90%
8	9	▲	 SQL	2.22%	+0.43%
9	8	▼	 Assembly language	1.87%	-0.39%
10	12	▲	 PHP	1.62%	+0.12%

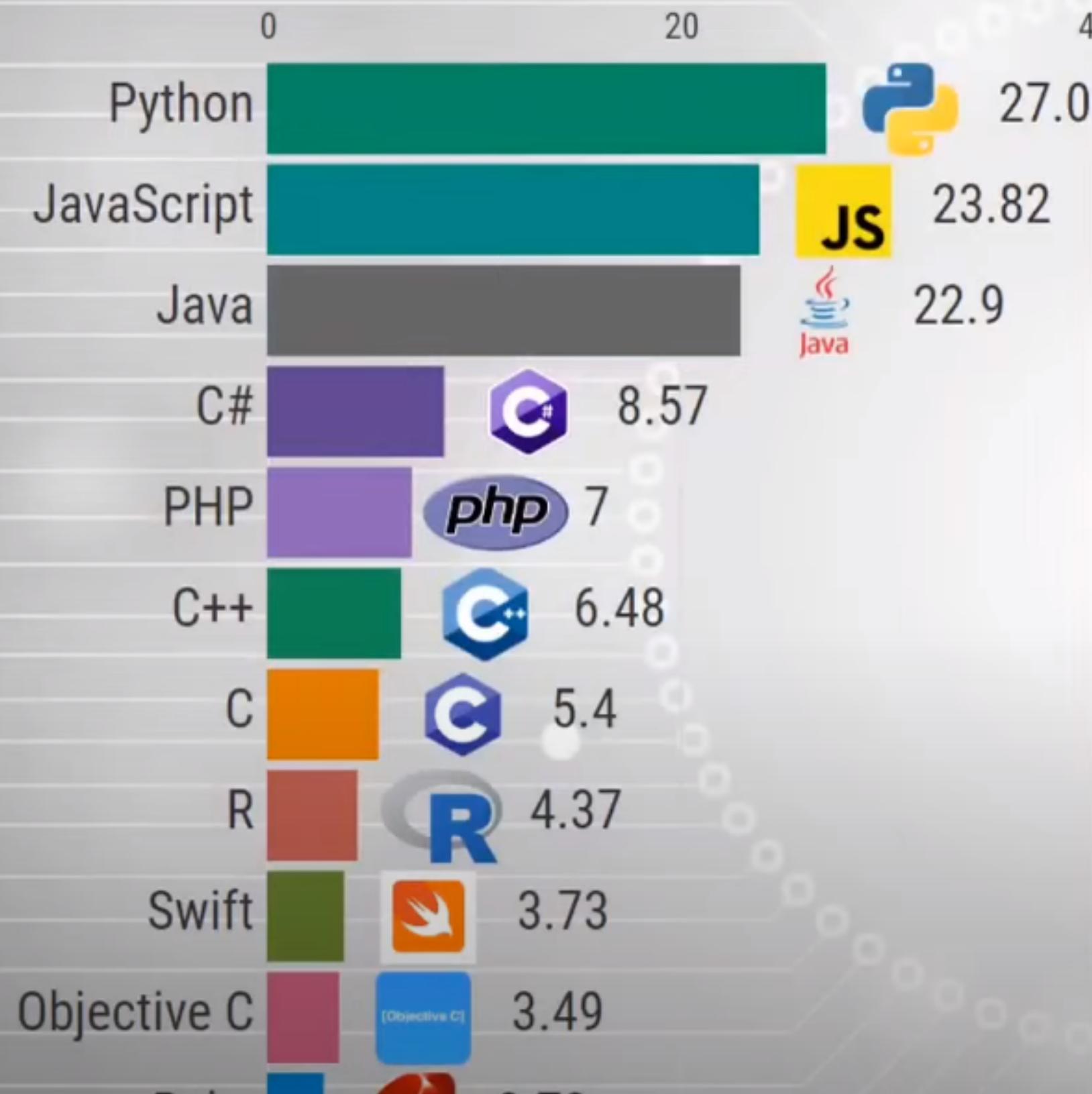
Loved by developers

<https://survey.stackoverflow.co/2022/#section-most-loved-dreaded-and-wanted-programming-scripting-and-markup-languages>



Most Popular Programming Languages

<https://statisticsanddata.org/data/the-most-popular-programming-languages-1965-2022-new-update/>

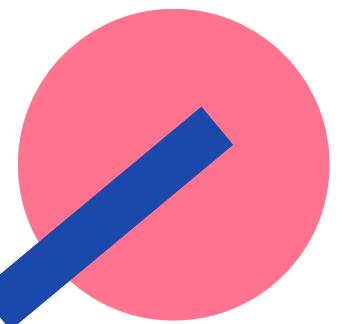


2022 Q1

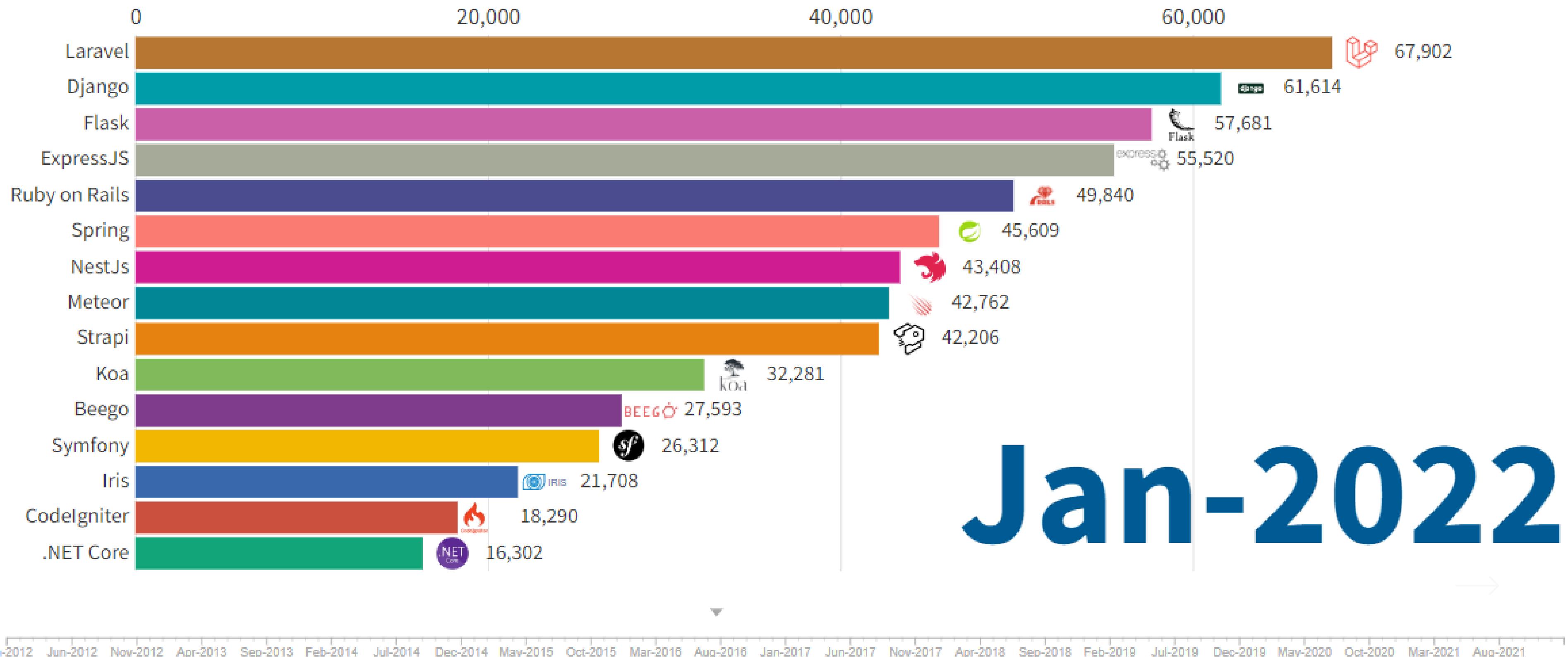
Most Popular Framework



PHP > Python > JS



Most Popular Backend Frameworks

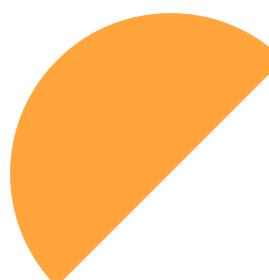


Famous Applications

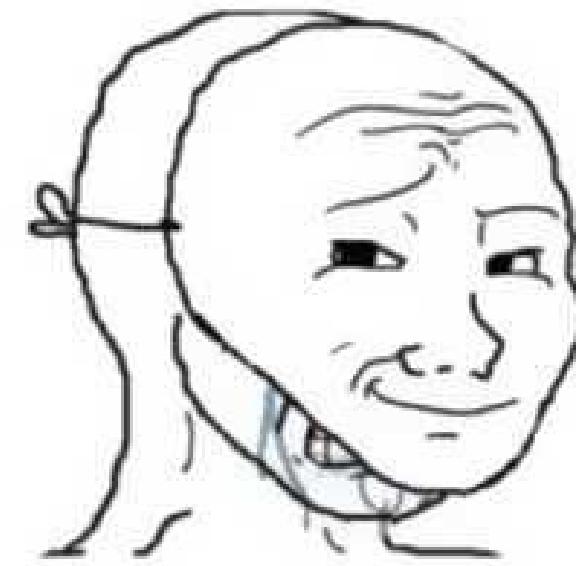
PHP: Facebook, Wikipedia, WordPress, Yahoo!,
Tumblr, MailChimp, Lyft, WhatsApp, Slack, Trivago

Node.js: PayPal, Netflix, LinkedIn, Uber, eBay,
Mozilla, Twitter, Slack, Reddit, The New York Times

Python: Instagram, Pinterest, Udemy, Glovo,
Trivago, Coursera, Indeed, GoDaddy, Spotify,
Dropbox, Lyft



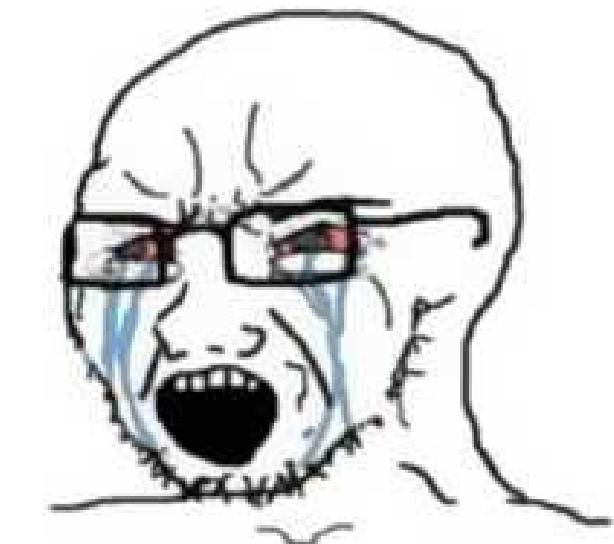
DESIGNERS



Community

(Tie)

Look, we have similar ideas.



No! You stole my idea.

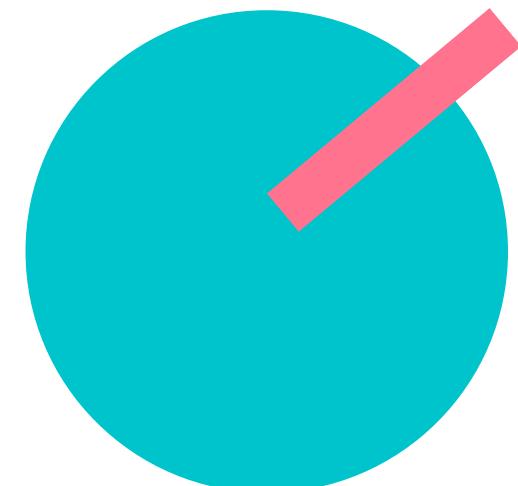
PROGRAMMERS



Man, I stole your code.



It's not my code.



Recap :

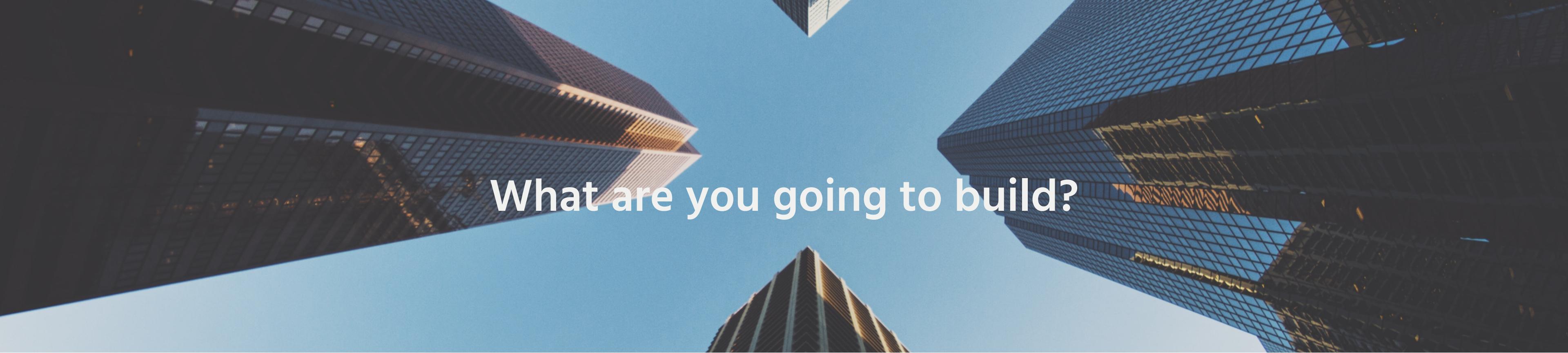
— Quick Overview of the languages

— Some of Pros & Cons

— A comparison among them

What is The Best Programming Language?

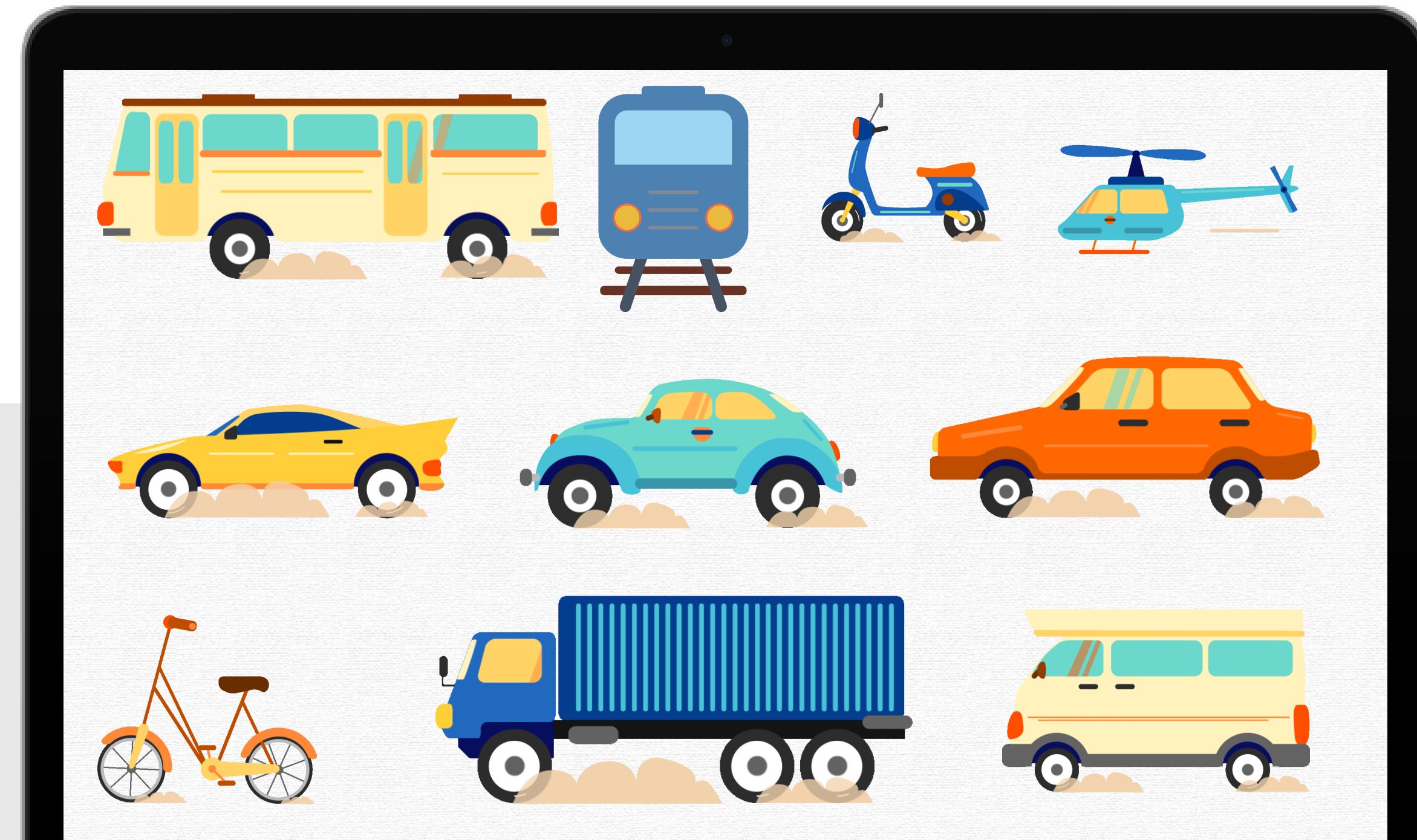




What are you going to build?

Depends On Business Requirements
& team experience

Every programming language is just a **Tool** that has its pros, cons, & usage.



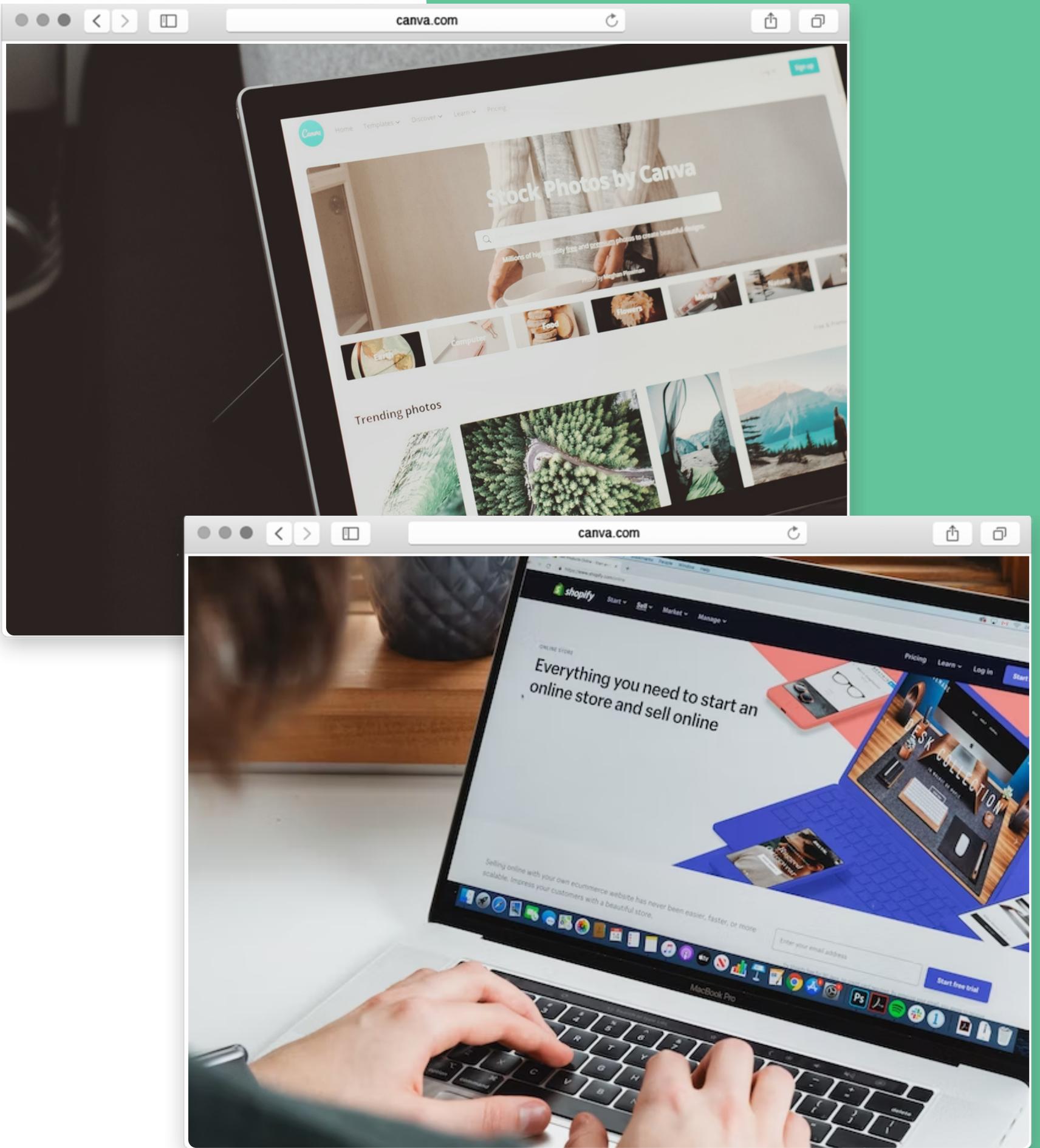
What Is The Best Programming Language FOR YOU?



Depends On YOUR METRICS



- preferred type of projects?
- easier to learn?
- popular in freelance?
- less code?
- pretty syntax?
- used in many fields?
- highest salary?
- MERN/MEAN/MEVN?
- common locally/globally?
- why do you learn programming?
-
- etc ..



**Take a break and ask yourself,
What are your real metrics?**





Other Resources :

- <https://hackernoon.com/choosing-your-first-programming-language-a-beginners-guide>
- <https://www.scaler.com/topics/software-engineering/backend-languages/>
- <https://distantjob.com/blog/nodejs-vs-php/>
- <https://www.altexsoft.com/blog/engineering/the-good-and-the-bad-of-node-js-web-app-development>
- <https://livecodestream.dev/post/when-you-should-and-should-not-use-nodejs-for-your-project/>
- <https://upstackhq.com/blog/should-i-learn-nodejs-or-php>
- <https://www.linkedin.com/pulse/back-end-languages-what-do-companies-use-ricardo-morales>
- <https://doitsoftware.blog/nodejs-vs-php>
- <https://www.geeksforgeeks.org/advantages-and-disadvantages-of-php/>
- <https://www.quora.com/As-a-young-developer-should-I-learn-PHP-or-node-js-in-2020-Which-one-will-be-more-useful>
- <https://youtu.be/Cg1cAjJKi6U>
- https://youtu.be/Iq3pvZJ_ZSo
- <https://youtu.be/dtsJyxajGpI>
- <https://www.udemy.com/course/nodejs-express-mongodb-bootcamp>

and maybe some more...