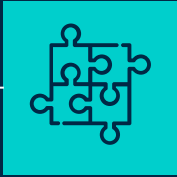


The background is a dark blue gradient. It is decorated with various geometric elements: small squares in teal, orange, and pink, some of which are solid and others are outlines. Thin white vertical lines of varying lengths are scattered across the slide. The title text is centered and uses a clean, sans-serif font.

VISUALIZING ALGORITHM DEVELOPMENT PROCESS

By: Sergio Quijano

Major Topics



01

HELDING AN IDEA

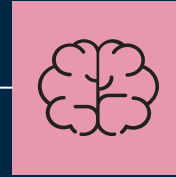
How to shift from
just an idea to start
developing?



02

DEVELOPMENT

What implications appear
in the development
process?



03

RESULT

How did the idea
resulted?

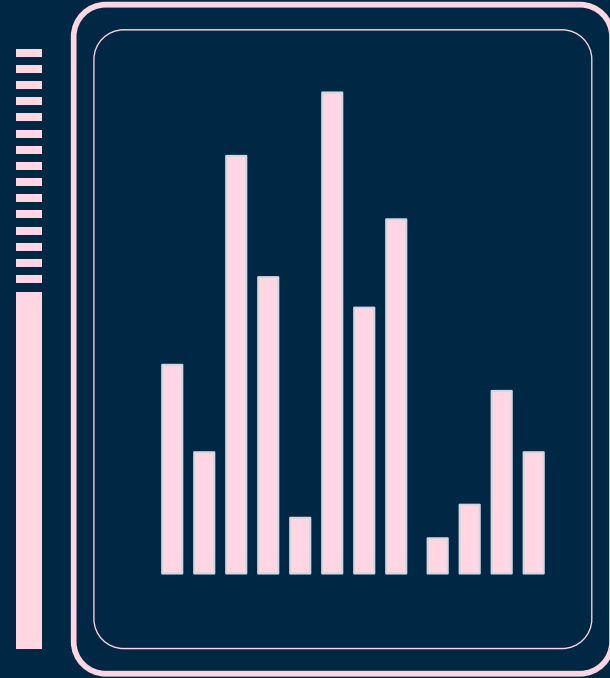
IDEA

How to come with it?

01

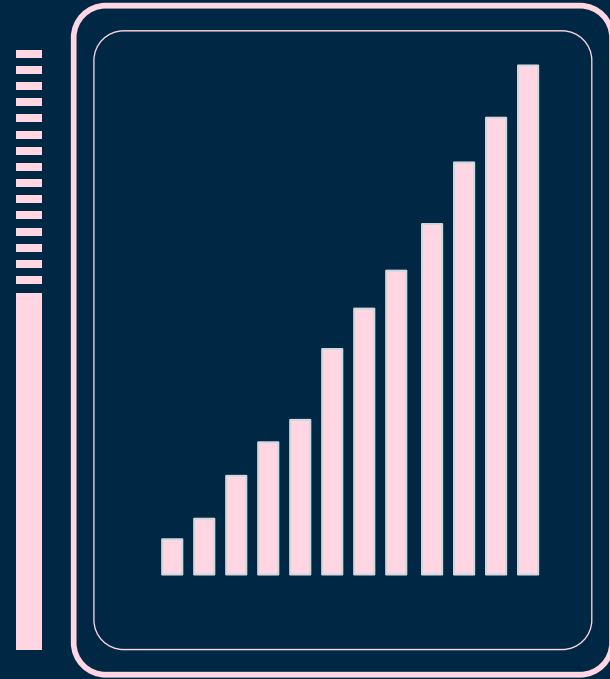
Initial Idea

- Searching for a project
- Getting out there
- Try it out



Initial Idea

- Searching for a project
- Getting out there
- Try it out



The slide features a dark blue background with several decorative elements. On the left, a vertical line extends from the top, with a small teal square at its base. In the center, a vertical line connects an orange square containing the number '02' to a horizontal bar. This bar is orange on the left and transitions to a lighter pinkish-orange on the right. On the right side, there are several small squares in teal, orange, and pink, along with vertical lines of varying lengths.

02

DEVELOPMENT

What steps to get to our
goal?

Different ways

Python (?)

Tkinter (I would be
interested to know how)

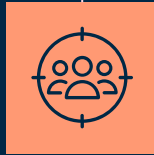


React.js

Why not?

Java (?)

Haven't done anything
with Java GUI

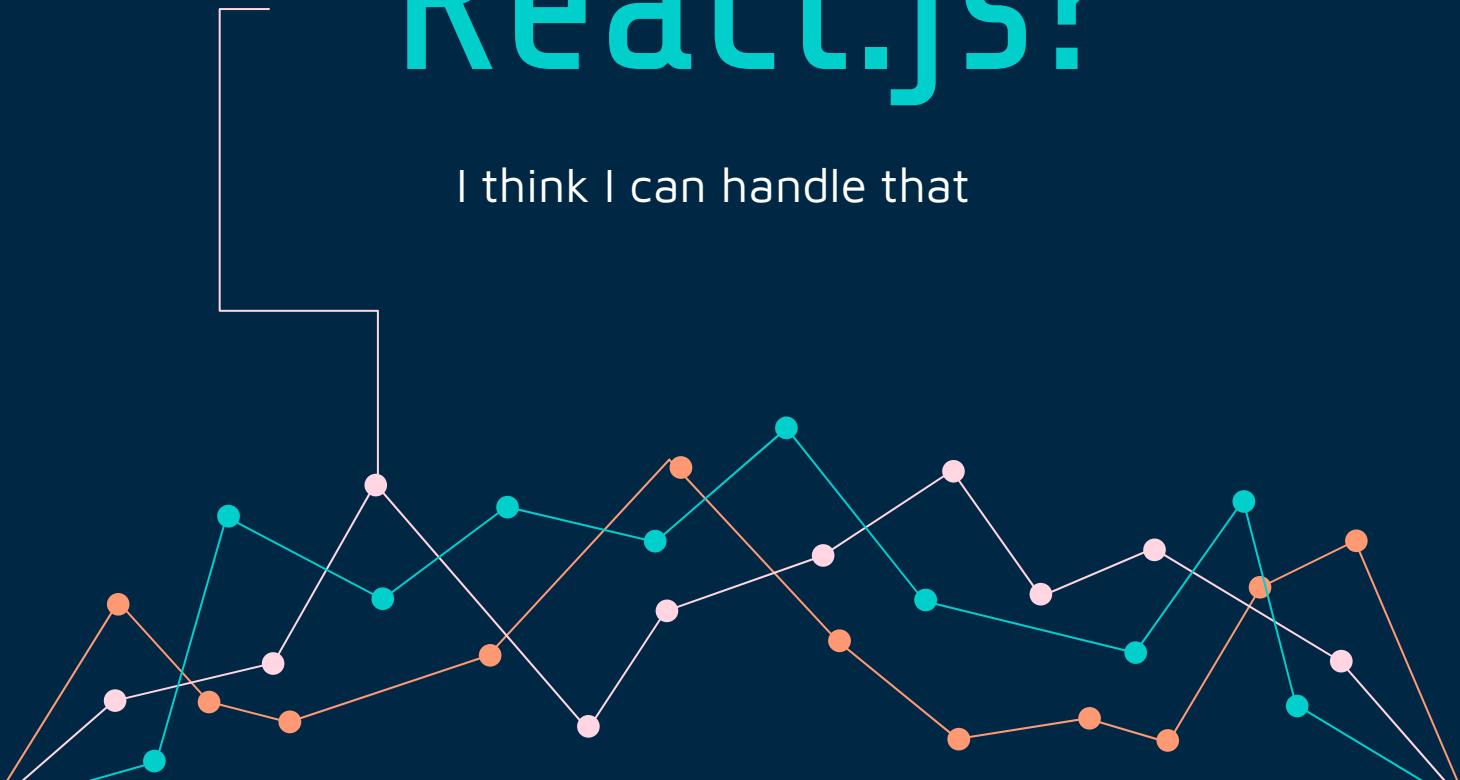


Vanilla JS

Only thing I know
how

React.js?

I think I can handle that



React is?

```
sergioquijano@Sergios-MacBook-Pro ~ npx create-react-app my-app
```

Creating a new React app in `/Users/sergioquijano/my-app`.

Installing packages. This might take a couple of minutes.
Installing `react`, `react-dom`, and `react-scripts` with `cra-template`...

```
((████████████████████)) :: idealTree:@pmmmwh/react-refresh-webpack-plugin: timi
```





I can't install react using npx create-react-app?

Asked 3 years, 1 month ago

Active 10 days ago

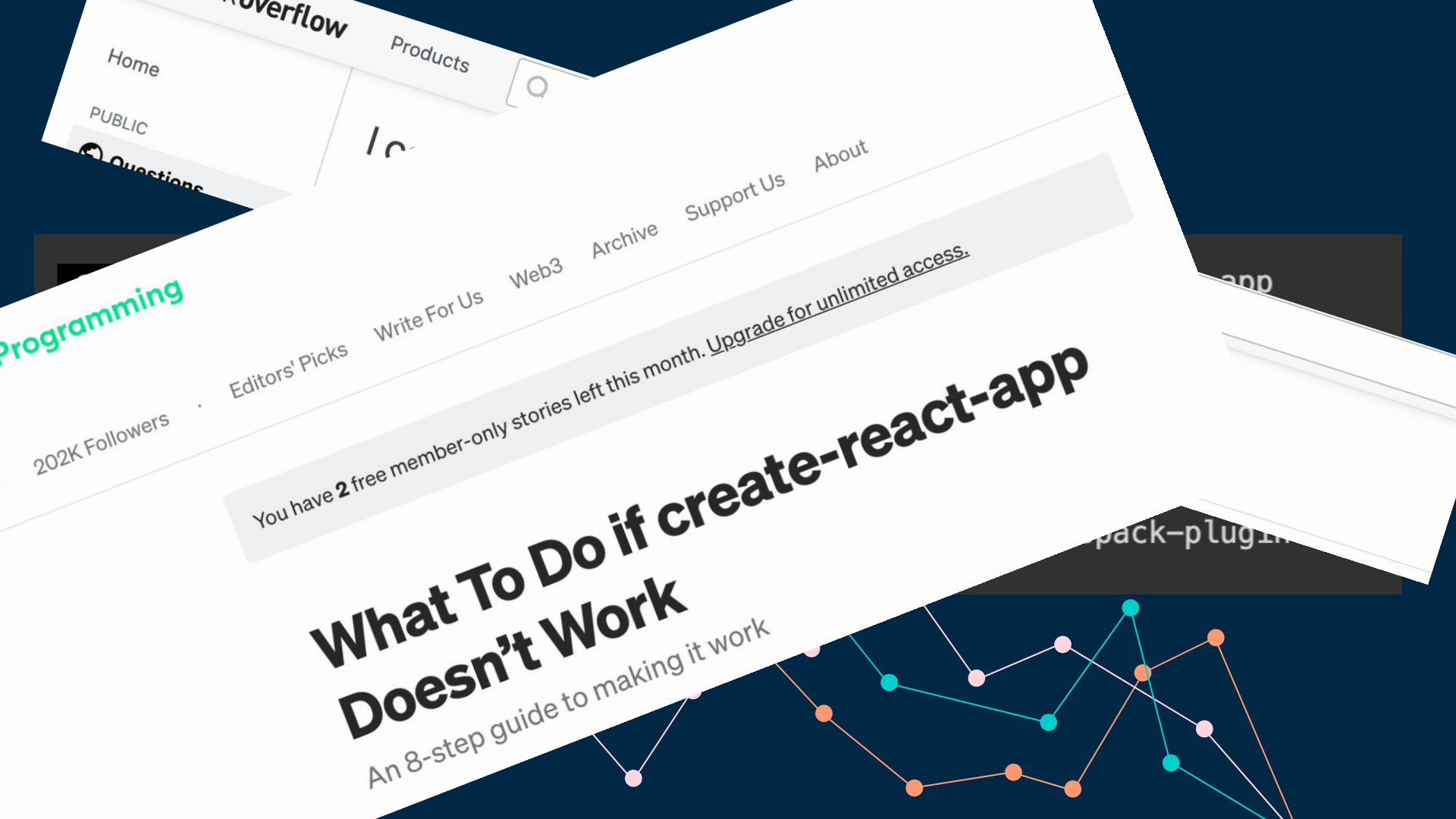
Viewed 108k times

sergioquijano@Sergios-Mac

Creating a new React app in /Users/sergioquijano

Installing packages. This might take a couple of minutes
Installing react, react-dom, and react-scripts with cra

(()) :: idealTree:@pmmmwh/react-refresh-webpack-plugin



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What To Do if create-react-app Doesn't Work

An 8-step guide to making it work

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1.9k

<> Code

Issues 1.2k

Pull requests 280

Discussions

Actions

Projects 3

Security

Insights

npx create-react-app is not working #10132

Closed

Waqas-Akram opened this issue on Nov 23, 2020 · 81 comments



Waqas-Akram commented on Nov 23, 2020

```
$ npx create-react-app my-app
```

You are running `create-react-app` 4.0.0, which is behind the latest release (4.0.1).

We no longer support global installation of Create React App.

Please remove any global installs with one of the following commands:

- `npm uninstall -g create-react-app`
- `yarn global remove create-react-app`

The latest instructions for creating a new app can be found here:

<https://create-react-app.dev/docs/getting-started/>

Assignees

No one assigned

Labels

needs triage

Projects

None yet

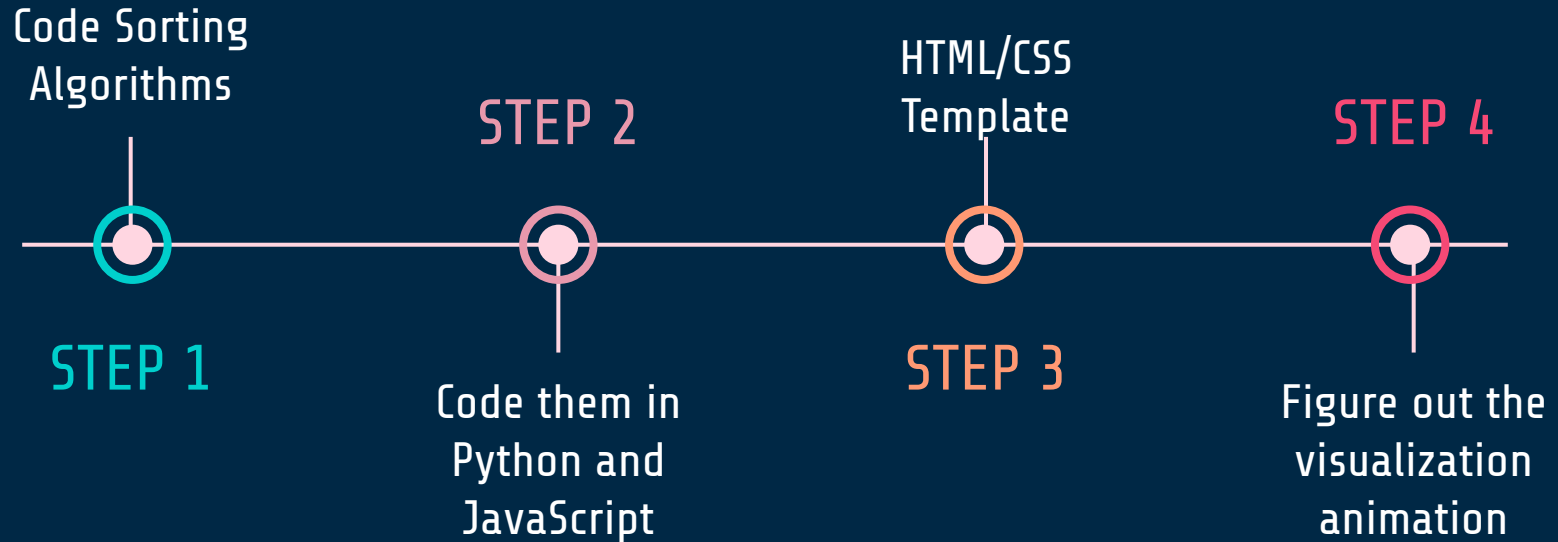
Milestone

No milestone

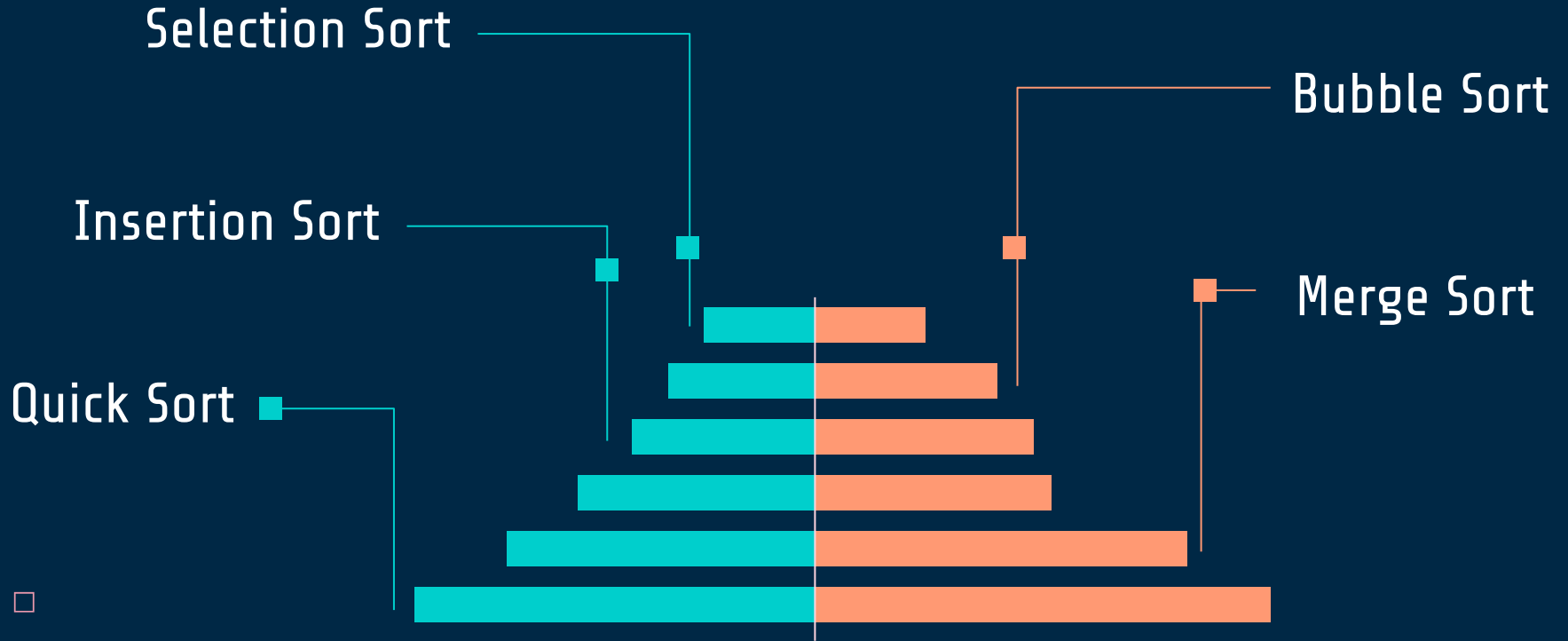
The background is a dark blue gradient. It is decorated with various geometric elements: small squares in teal, orange, and pink, and thin white vertical lines of varying lengths. These elements are scattered across the frame, creating a modern, minimalist aesthetic.

SIMPLE JAVASCRIPT

PROCESS PLAN



SORTING ALGORITHMS



SELECTION SORT

[3,2,4,1]



→ [3,2,4,1] → [2,3,4,1] → [2,3,4,1] → [1,3,4,2]

→ [1,3,4,2] → [1,3,4,2] → [1,2,4,3] → [1,2,4,3]

→ [1,2,4,3] → [1,2,3,4] → [1,2,3,4]



BUBBLE SORT

[3,2,4,1]



→ [3,2,4,1] → [2,3,4,1] → [2,3,4,1] → [2,3,4,1]

→ [2,3,1,4] → [2,3,1,4] → [2,3,1,4] → [2,1,3,4]

→ [2,1,3,4] → [2,1,3,4] → [1,2,3,4]



INSERTION SORT

[3,2,4,1]



→ [3,2,4,1] → [2,3,4,1] → [2,3,4,1] → [2,3,4,1]

→ [2,3,4,1] → [2,3,1,4] → [2,3,1,4] → [2,1,3,4]

→ [2,1,3,4] → [1,2,3,4]



MERGE SORT

[3,2,4,1]

→ [3,2] | [4,1] → [3] | [2] | [4] | [1]

→ [2,3] | [4] | [1] → [2,3] | [1,4]

→ [2,3] | [1,4] → [1,2,3,4]



MERGE SORT

[3,2,4,1]

→ [3,2] | [4,1] → [3] | [2] | [4] | [1]

→ [2,3] | [4] | [1] → [2,3] | [1,4]

→ [2,3] | [1,4] → [1,2,3,4]



MERGE SORT

[3,2,4,1]

→ [3,2] | [4,1] → [3] | [2] | [4] | [1]

→ [2,3] | [4] | [1] → [2,3] | [1,4]

→ [2,3] | [1,4] → [1,2,3,4]



MERGE SORT

[3,2,4,1]

→ [3,2] | [4,1] → [3] | [2] | [4] | [1]

→ [2,3] | [4] | [1] → [2,3] | [1,4]

→ [2,3] | [1,4] → [1,2,3,4]



QUICK SORT

[3,2,4,1,5]



→ [3,2,4,1,5] → [3,2,4,1,5] → [3,2,1,4,5] →

→ [3,2,1] | [4,5] → [3,2,1] → [1,2,3] | [4,5]

→ [1,2,3,4,5]



ASYNCHRONOUS PROGRAMMING



- Understand Synchronous Programming
- Asynchronous JavaScript

ASYNCHRONOUS PROGRAMMING

```
function wait(milisecc) {  
  return new Promise((resolve) => {  
    setTimeout(() => {  
      resolve("");  
    }, milisecc);  
  });  
};
```



RESULT

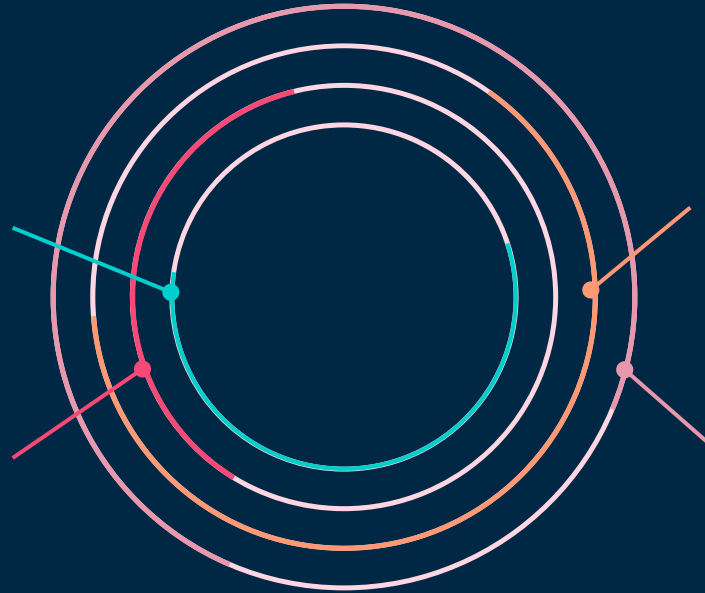
Let's see how it came
through

03

SOURCES

https://www.brianheinold.net/ds/data_structures_book_v2.html#chapter:sorting

<https://www.quora.com/What-are-some-good-ideas-about-project-on-algorithms-and-or-data-structures>



<https://developer.mozilla.org/es/docs/Learn/JavaScript/Asynchronous>

https://www.w3schools.com/js/js_promise.asp

Do you have any questions?

THANKS!



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