





JS STUDENT / TEACHER IMPOSTOR SYNDROME

Presented by ARIS MARKOGIANNAKIS @roi3

ARIS MARKOGIANNAKIS

Senior Frontend Developer

buildit @ wipro digital

Visiting Lecturer



Organiser





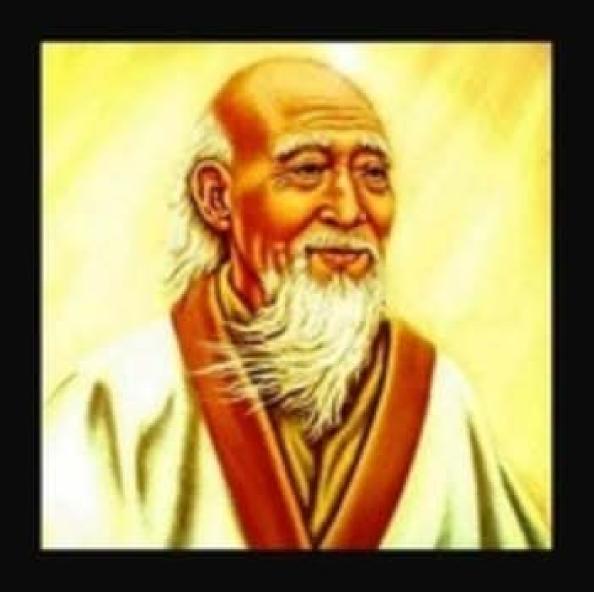


Impostor Syndrome

When you feel inadequate to your peers

- A psychological pattern
- An individual doubts his or her accomplishments
- Has a persistent internalized fear of being exposed as a "fraud".





The more you know the less you understand.

~ Laozi



Developers Developers Developers

JavaScript is the number one language but still,

- is hard to keep up with changes
- is hard for new joiners to get into the club



What all JS Developers should know?

Do people know the basics or just jump to React?

Are these enough for someone who starts learning JavaScript?

What are the real expectations?





All JS developers should understand:

- * JS syntax, keywords, operators
- * Built-in APIs (e.g. Array methods)
- * Rest/spread
- * Destructuring
- * Default assignments
- * Arrow functions

11:01 AM - 27 Mar 2019

















Is that enough?

- As JS Developers we work with the HTML/CSS
- Our main environment is the browser
- A good understanding of core concepts like, host objects, this, window, how to debug our code using browser developer tools





@thisisjofrank@mastodon.technol...

Following

A lovely friend of mine has just been let go from her junior role because the company wanted to pay for a junior but hire a senior. Now her confidence is knocked and It makes me so mad that the tech industry, especially start-ups, can treat our juniors this way.

6:58 AM - 10 May 2019

@ThisIsJoFrank





DEVELOPER EXPECTATIONS

WHAT DO WE EXPECT FROM OUR DEVS?

The complexity that imposes that syndrome has the following levels



EXPECTATIONI

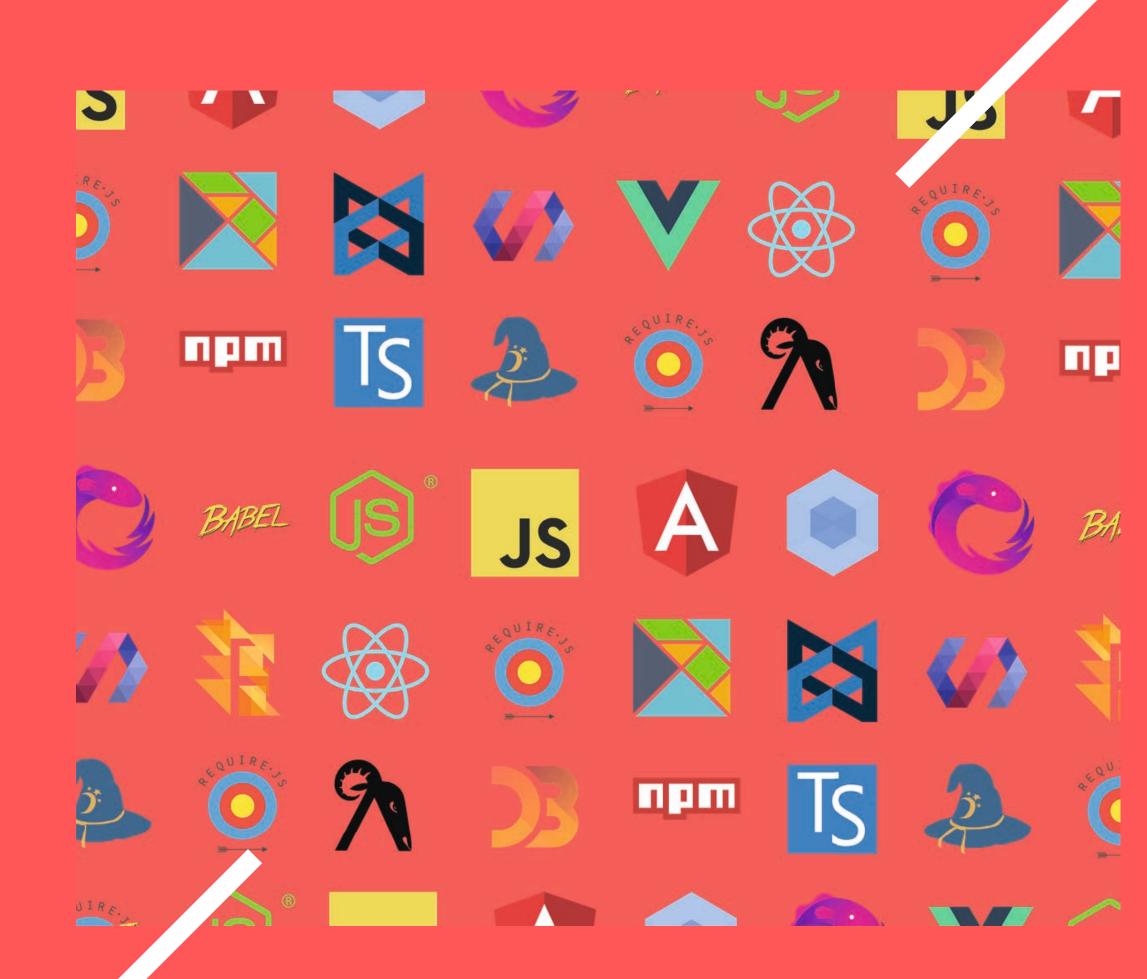
EVERYBODY NEEDS TO KNOW A FRAMEWORK



Frameworks complexity

"Must know Frameworks"

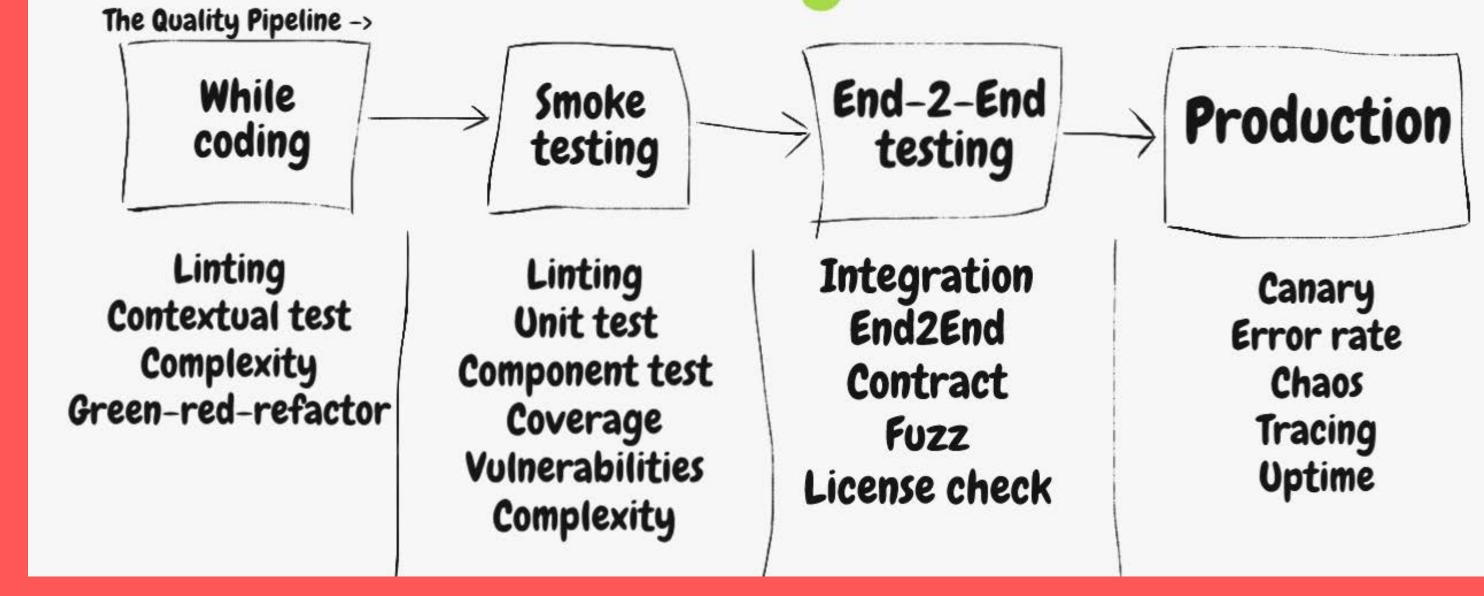
- We all know at least one framework
- Most of us know React
- Too much choice and hard to choose



EXPECTATION 2

EVERYBODY NEEDS TO KNOW TESTING

testing complexity





There is far more than unit testing...

Must know TDD - Frameworks like Jest, Mocha, Istanbul, Sinon, Karma, Jasmine,

How much is acceptible and what kind of testing do we need?

There are far more testing we can do in JavaScript like integration testing and so on.

EXPECTATION 3

EVERYBODY NEEDS TO KNOW HOW TO MANAGE THE STATE



Structuring our code our logic and our state

Need to know the latest state management libraries

- How do we share the state across our components,
- What kind of architecture is it good?



EXPECTATION 4

UNDERSTAND THE LIMITATIONS
OF THE SINGLE THREAD AND
MAKE IT WORK AS A
MULTITHREAD



Asynchronous JavaScript

From callback hell, to promises to async and wait, and to generators



EXPECTATION 5

EVERYBODY BEFORE SEND YOUR CODE TO THE JUNGLE YOU NEED TO PACKAGE IT CORRECTLY



Final product complexity

Ship you code using Webpack, or in the past Grunt, Gulp, or Rollup



EXPECTATION 6

YOU STILL NEED TO KNOW HOW
TO USE TOOLS IN ORDER TO
WORK WITH NEXT GENERATION
JS



But still...

Still we need to know npm, yarn and babel/transpilers and should we be using TypeScript?

Complexity is as students now need to know also node.js, npm and they are moving into more areas than core JavaScript



EXPECTATION 7

YOU NEED TO WRITE CODE/BUILT WEBSITES THAT ARE PERFOMING WELL AND ALSO WORK OFFLINE



And still...

Creating code that can perform and deliver in a fast manner is a big thing, using Server Side Rendering (SSR), Progressive Web Apps (PWA)

Some cool tools to suggest Next.js for React, Nuxt for VueJS



TOOLS

COMPLEXITIES IMPOSED
BY THE TOOLS
WITH ISSUES LIKE
VERSIONING, SECURITY,
ETC



REALJS

BASICS KEEP TRACK
WITH TC39 WITH
CHANGES IN THE
LANGUAGE





JSSTARTER STUDENT

VANILLA JAVASCRIPT

JS world asks for this joiner to know a framework before they know pure JavaScript, the core of the language





ADVANCED STUDENT

DECISION MAKER

Pressure comes from the fact that they need to keep learning and be perfect with all frameworks, methodologies where if they don't even know the basics



+

TEACHER

CREATING NEW JS DEVS

What is relevant for teaching, some students come and tell me that they want to learn this tool, and this tool what am I supposed to be doing? I need to be able to do what is right for them.

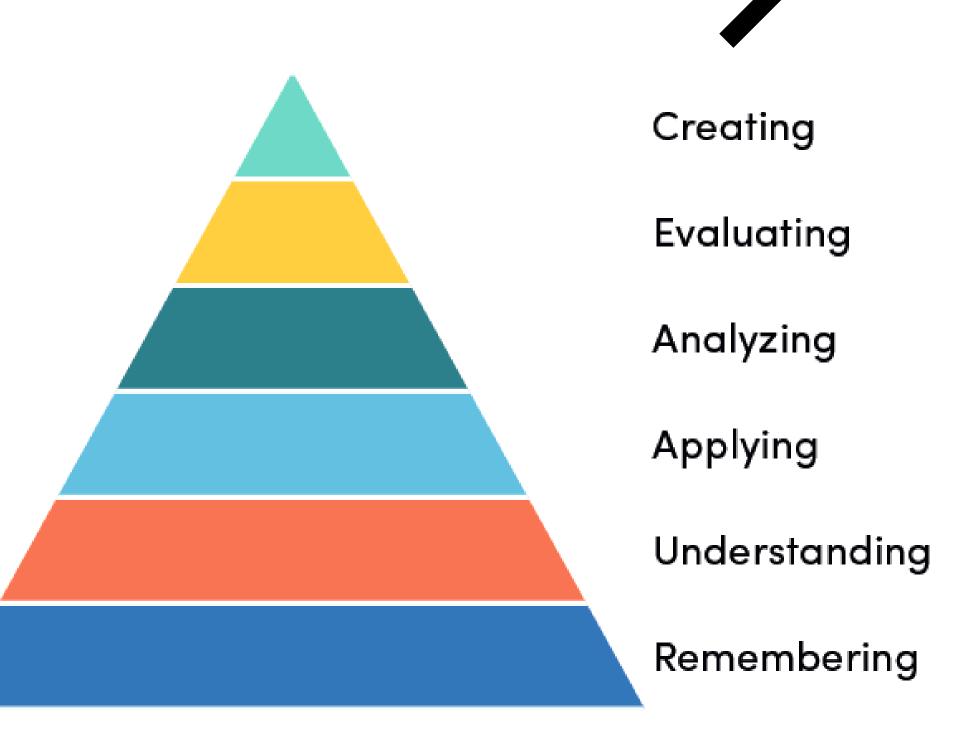


JS Starters to Advanced JS Students

Based on Blooms taxonomy what we should expect our students to know

Juniors/All Developers sould Remember the basic concepts, and Understand them and be able to apply them.

Advanced students should be able to analyse, evaluate and create tools



JavaScript is a superhero language...

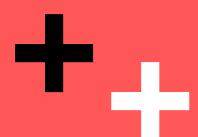
10 years ago JS was a coming from being a basic augmentation of frontend

Right now the language it can do both frontend and backend without the need of old monolithic languages such as JAVA, .NET, and PHP.

With node, JavaScript is now a full stack language and it can stand on its own.

We forgot what it means to be a true JavaScript developer.





TOOLS

DO THEY WORK?

AT THE MOMENT WE HAVE ISSUES WITH OUR ECOSYSTEM

TOOLS HAVE ISSUES WITH NPM
FOR EXAMPLE VERSIONING,
INTEROPERABILITY, AND SECURITY

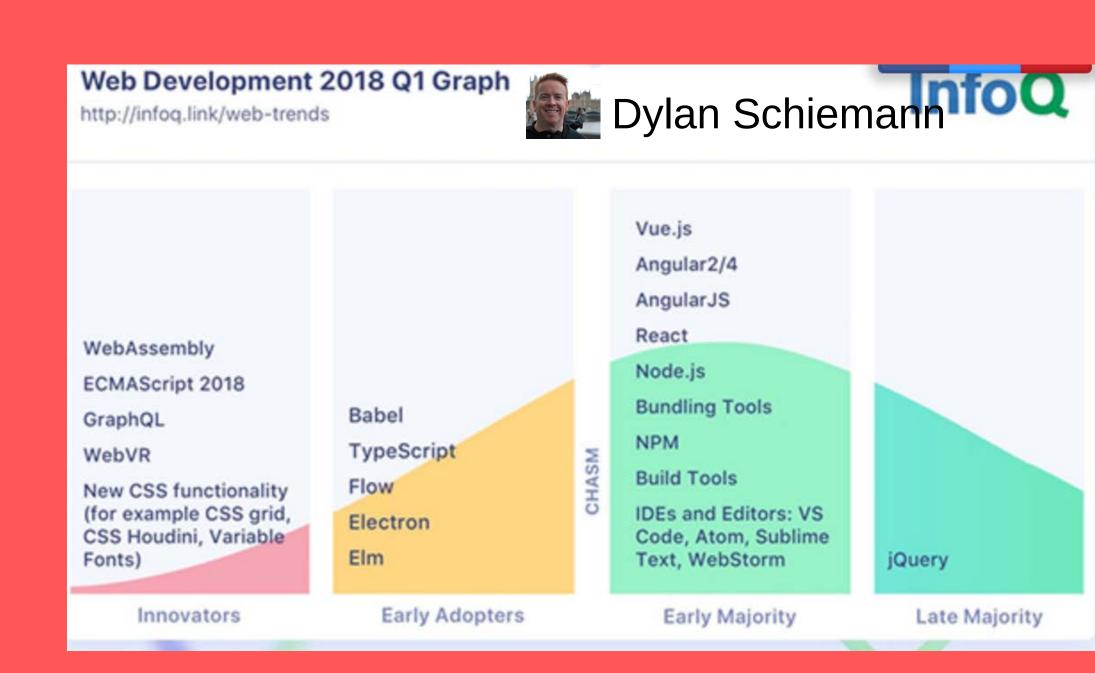




WHATIS COMING?

MORE CHANGES ARE COMING...

There are far more tools coming so it will be even harder for new and existing developers to cope with the change







It feels like we forgot about inclusivity

We need to think of how easy it is for someone to get a path to know all this stuff.

And we need to create that path for them.

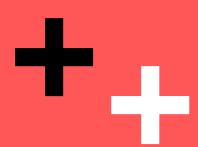


| St | At | 2 | | 3 Of |
|----|-----------------|------------------------|-----------------|-----------------|
| Ja | ⁵ Va | Sc | ⁷ Ri | ⁸ Pt |
| | | ⁹ 20 | 10 18 | |

Start

Thanks to tools like State of JavaScript we got a bit more direction

But still not enough, it is more about who is using what but it is not helping us understand what we need to do to make our JS world better.



While we are tiding up our JS

Focus on the small wins

- Documentation Updates
- Contribute a tiny fix
- Finish Your Code Reviews
- File Bugs Finding bugs and fixing them
- Refactor Code
- Inbox Zero
- Start Conversation on IRC/Slack

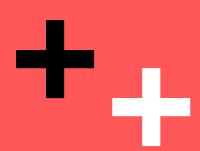


+ + MOREHEROES NEEDED

We need to take action...

We need the guardians of the web to help us solve all these problems and the complexity



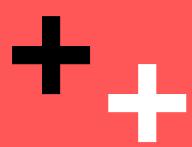


KEEP CALM

and keep fighting for a better JS

Don't just code, it is good to stay in touch with the changes and always be aware of what is coming and comment when you think something is not good.

Be thankful for what you are now, and keep fighting for what you want to be tomorrow.



THANK YOU!

Q/A

Any Questions?

buildit @ wipro digital







