

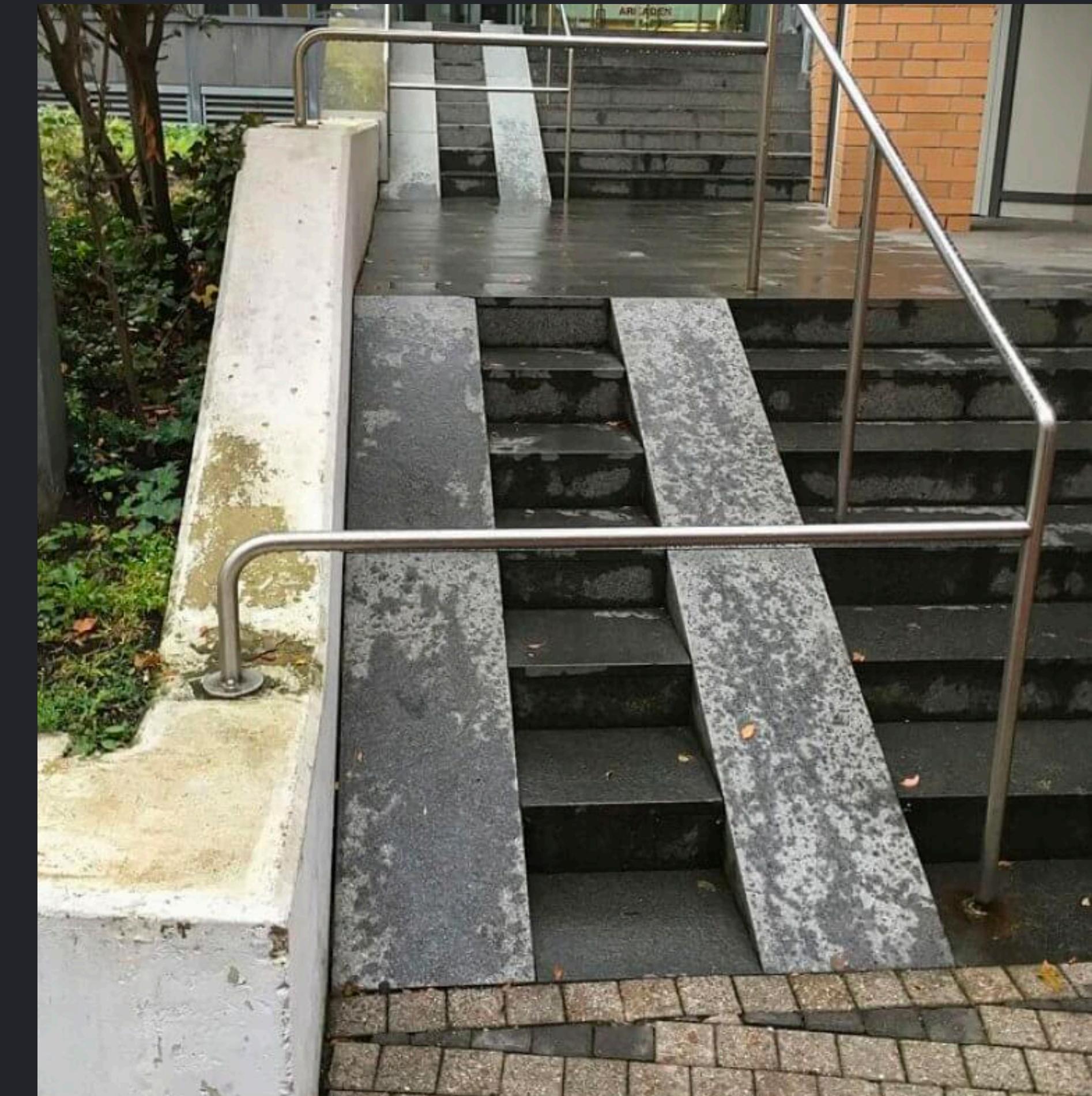
Creating an Accessible Web Together in 5 Simple Ways

Shruti Kapoor

EXPECTATION



REALITY





Shruti Kapoor



shrutikapoor.dev



@shrutikapoor08



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#DevJoke

What did the process say
after working in an infinite
loop all day?

I need a break



@shrutikapoor08

Outline

Accessibility 101

Checking if your app is accessible

Tools

Before you release your feature...

Going above and beyond - a demo

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What is Accessibility (A | I | Y)?

Enabling everyone to use your site

- those with limitations
- those with disabilities
- those with abled bodies

Accessibility benefits
everyone





quarantine



Digital Accessibility

Screen readers - read out text

Screen magnifiers - zoom screen

Selection switches - for motor disabilities

Head tracker for mouse

Others - Closed Captions for Audio, Voice recognition

Accessibility Shortcuts

Vision



VoiceOver



Zoom



Invert Colors



Color Filters



Increase Contrast



Reduce Transparency

In the US

1 in 4 US Citizens have a disability according
to 2018 estimate

In the UK

Equality Act 2010

Accessible per the WCAG 2.1 AA guideline

Have an accessibility statement

What's WCAG 2.1 AA?

Perceivable

Operable

Understandable

Robust

Perceivable

Understand and be aware of the content and information that's presented on the website

Operable

Users must be able to utilize every part of the site's functionality.

Understandable

All content should be easily understood by visitors

Robust

All content should be easily interpreted by all visitors including those who use assistive technology.

Types of Accessibility needs

Motor disability

Cognitive

Visual

Auditory

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5 Simple Things to Check

Semantic HTML

Semantic HTML

TabIndex

Semantic HTML

TabIndex

Aria tags

Semantic HTML

TabIndex

Aria tags

Role

Semantic HTML

TabIndex

Aria tags

Role

Keyboard navigation & screen reader

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or08



@shrutikapoor08

Semantic HTML

TabIndex

Aria tags

Role

Keyboard navigation & screen reader

Semantic HTML

Use buttons for actions.

Whenever using <a>, give href

Whenever using , give alt.

Dont fake heading levels with CSS

Use semantic HTML - nav, header, main

What's the problem with?

Div instead of a button.

What's the problem with?

Screen reader announces “group”

What's the problem with?

Not using correct heading tags

Semantic HTML

=

FREE Accessibility

FREE Accessibility

<select> lets you select with space bar.

Button can be clicked with enter.

Button can be tabbed to.

<nav> can be accessed with arrow keys.

Semantic HTML

Use correct semantics.

Tabindex

Use tab index to set tabbing order

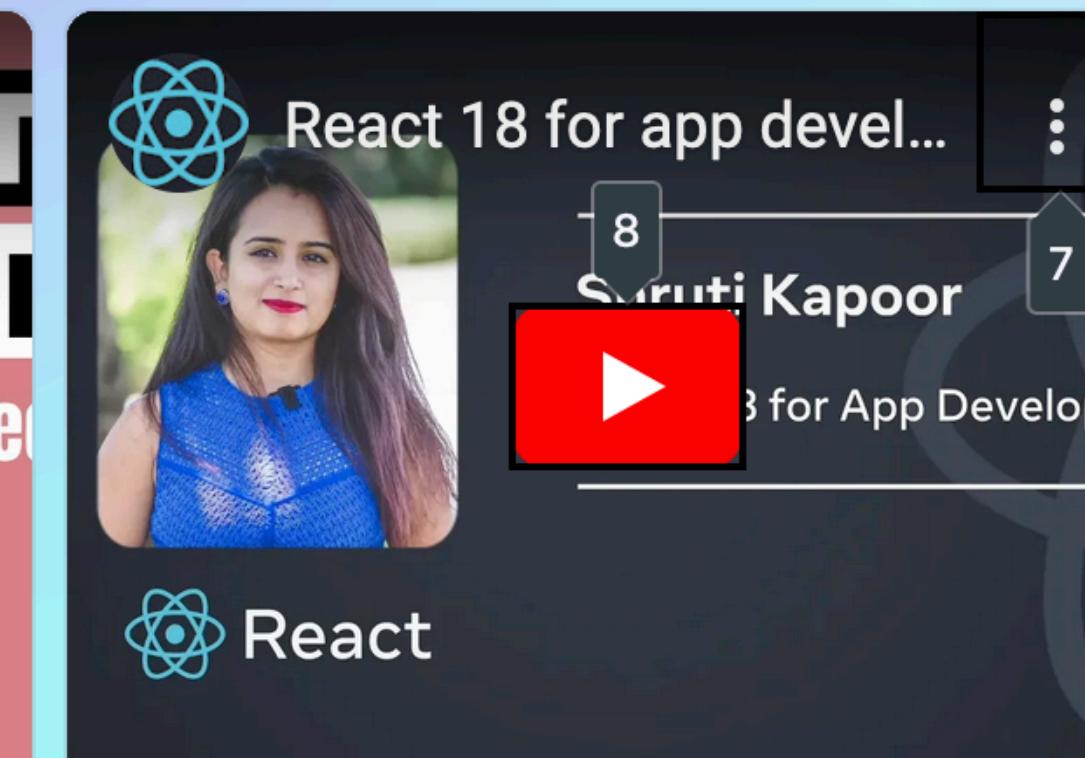
Use Firefox to debug tab order

Talks and Podcasts

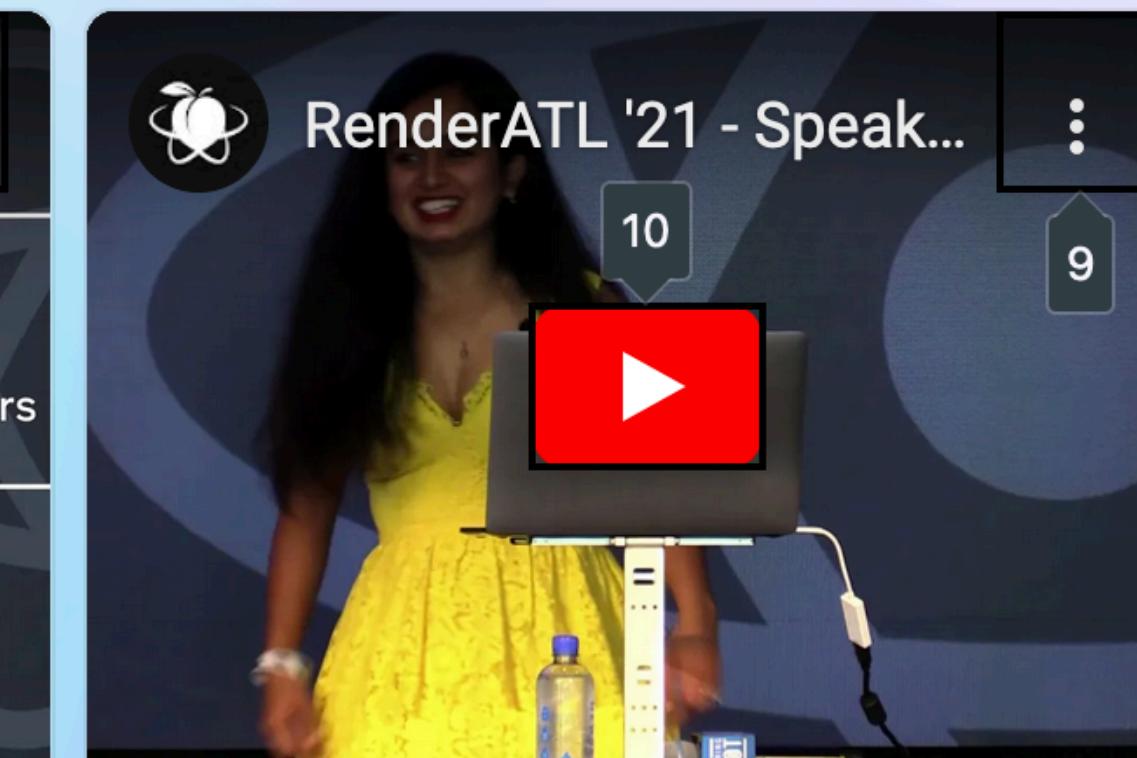
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Reactathon - Everything you
need to know about React 18



React Conference - React 18 for
app developers



RenderATL - What is new in React
18

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11

Email

12

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11

Email

12

Subscribe

Tabindex

= 0

= -1

Do not use greater than 0

Aria

aria-label

Aria-described by

Aria-checked

Aria-expanded

aria-haserrormessage

Aria-hidden

Role

Alert

Button

Checkbox

Gridcell, grid, row

menuitem

Progress bar

Radio

Keyboard navigation

Test keyboard navigation

Use only tab keys, arrows and space bar, esc to navigate every actionable item on the web page.

Ensure focus stays visible.

Use screen reader

STARK INDUSTRIES

Checklist

-  Remember STARK
-  Free of keyboard traps
-  Provide explicit labels for interactive elements
-  All relevant images use alt attribute
-  Multimedia is tagged - appropriate captions
-  Text has sufficient color contrast
-  Run automation tests

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Accessibility Tools

Browser extensions - aXe, WAVE

Browser accessibility tools - Firefox, Chrome

Build tools - axe-core, jsx-a11y

CI tools - AccessLint to find issues in GitHub PR

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Test Accessibility

STARK INDUSTRIES

Check an app on the web

Use keyboard navigation

Use screen reader

Use automation tools

Do user testing

Demo

Demo things

Fix broken <a > tags.

Fix focus outlines not visible.

Fix tabindex

Fix what screen reader says.

Going a step further

Where you don't have to use so many tabs to get to an element

“Skip to main content”

Provide shortcuts for common functions -
start a huddle, esc

Slack things

Keyboard shortcuts

Cognitive disability: Stay in a section

Use arrow keys to navigate between items

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JavaScript

APRIL 27, 2022

How to stay motivated as a developer and stop procrastinating.

Do you ever find it difficult to work on your project, your side hustle, or even your hobby? You ever had those moments where nothing feels exciting, everything feels boring, and you lay there in bed feeling - is it just me or is my work really that boring? I feel it too. One week I feel super excited and feel I can do anything I put my mind to, the next I feel very low, bored and stuck and feel like I do not have the motivation to put even one line of code in. In this article, I want to discuss what to do when you feel you have no motivation to do anything, or can not collect yourself to focus on your task at hand.



APRIL 6, 2022

React 18 Quick Guide & Core Concepts Explained

React 18 sets the foundation for concurrent rendering APIs that future React features will be built on top of. This release focuses on performance improvements and updating the rendering engine.



JULY 1, 2021

What is GraphQL?

In technical terms, a GraphQL is a query language - a syntax for querying for

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Q: Who won the debate for the best variable?

A: I won



Thank You



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