## Build an infinite scroll table without scroll event listener.



Why... it's... so... laggy...

Show table | normal version.

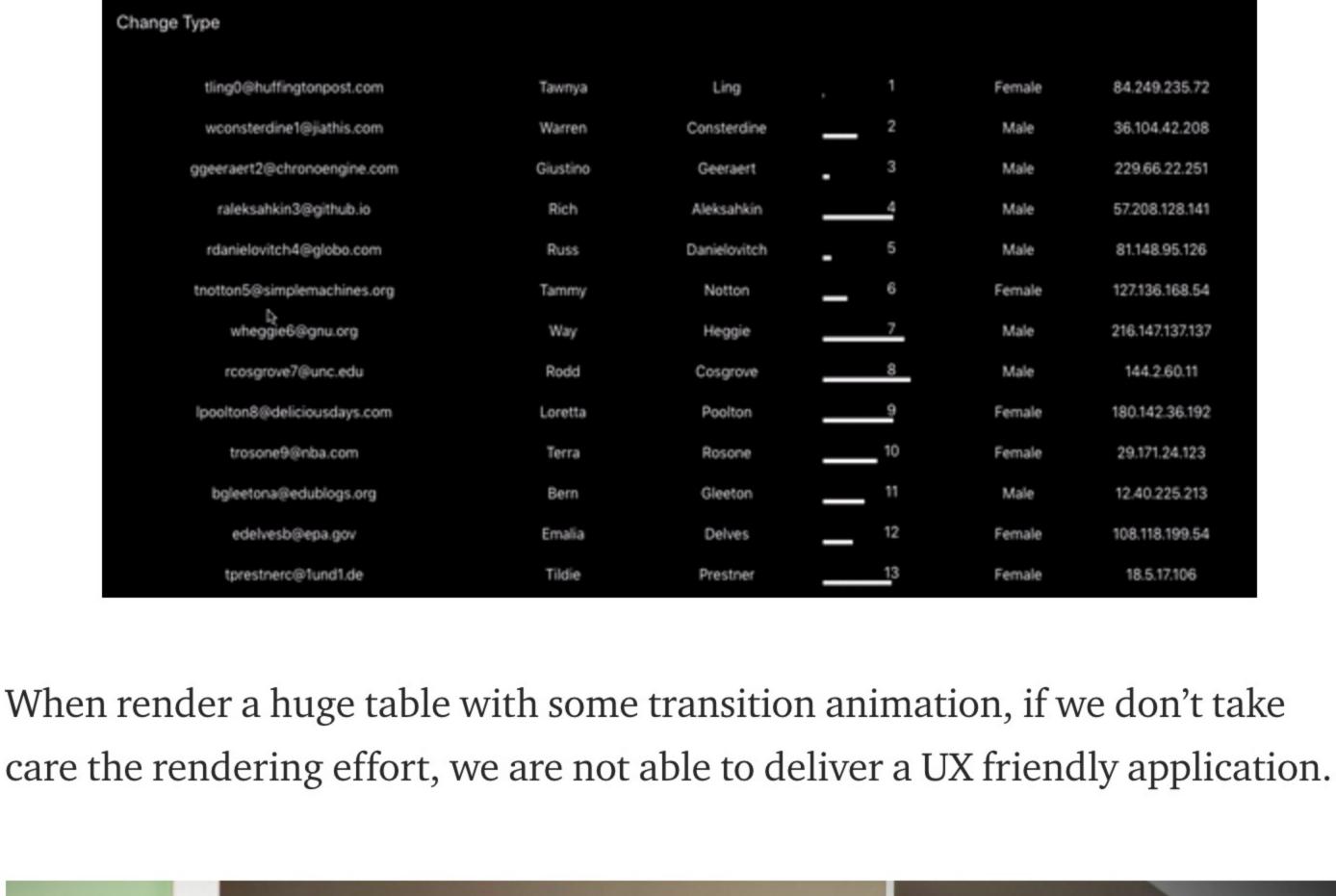
handleScroll(e) {

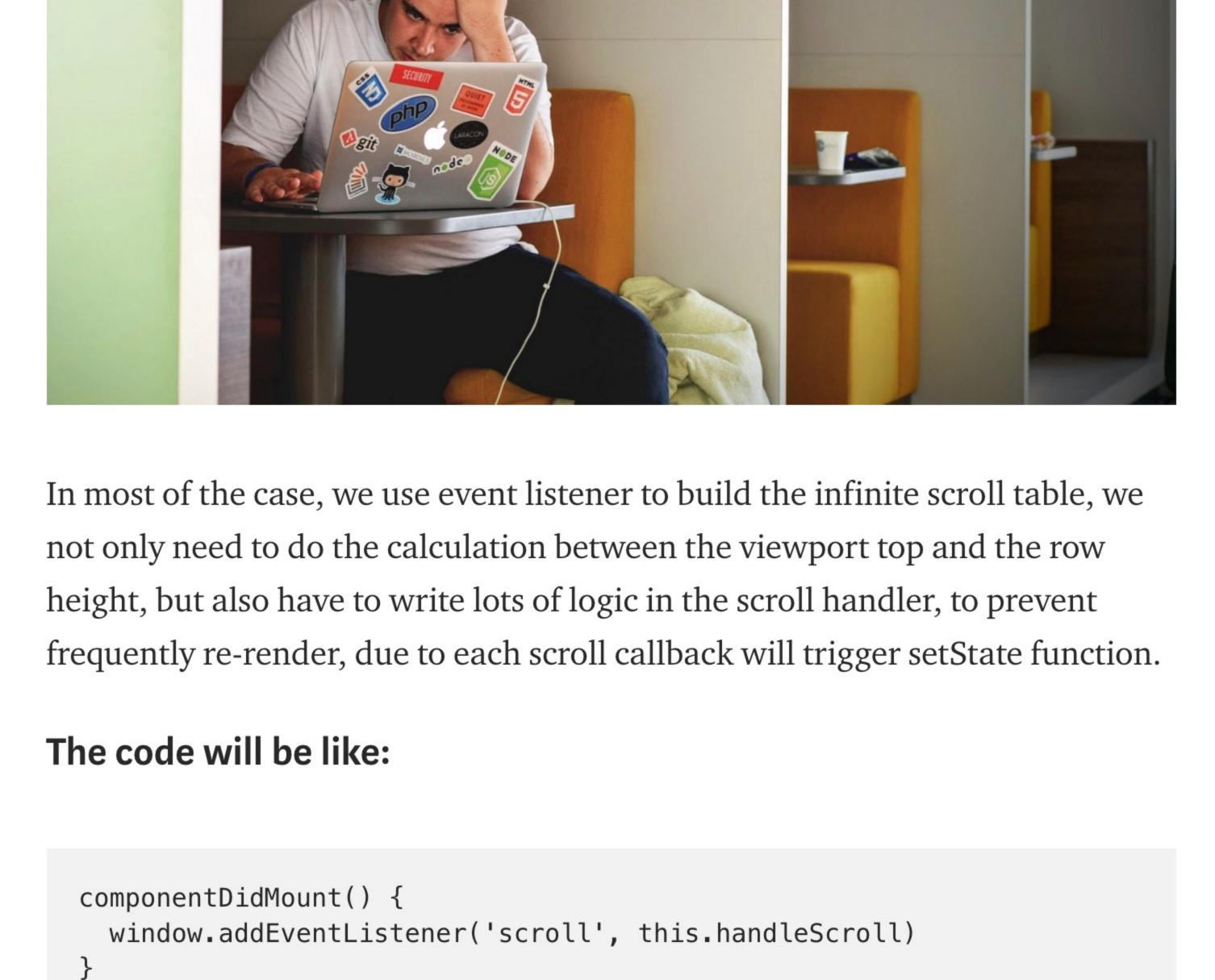
// use window offset and boundingRect

const { ...someAttributes } = window;

const { ...someBoundingRect } = this.component

(i) localhost:3000





// some logic prevent re-render
if ( ... ) return;
// do some math
const newIndex = ...
// and how many rows should be rendered
this.setState({index: newIndex })
}
There is another way to implement infinite scroll table, without knowing

any value of window and component boundingRect.

It is IntersectionObserver. The definition from w3c:

This specification describes an API that can be used to understand the visibility and position of DOM elements ("targets") relative to a containing element

With this implementation, you don't even need to know row height, current viewport top, or any other value to do the math.

The concept is to insert anchors with index attribute in each checkpoint, every time there is an anchor triggered, get the index value and re-render the table. So we don't need to do some magic math with the DOM height and viewport.

Viewport

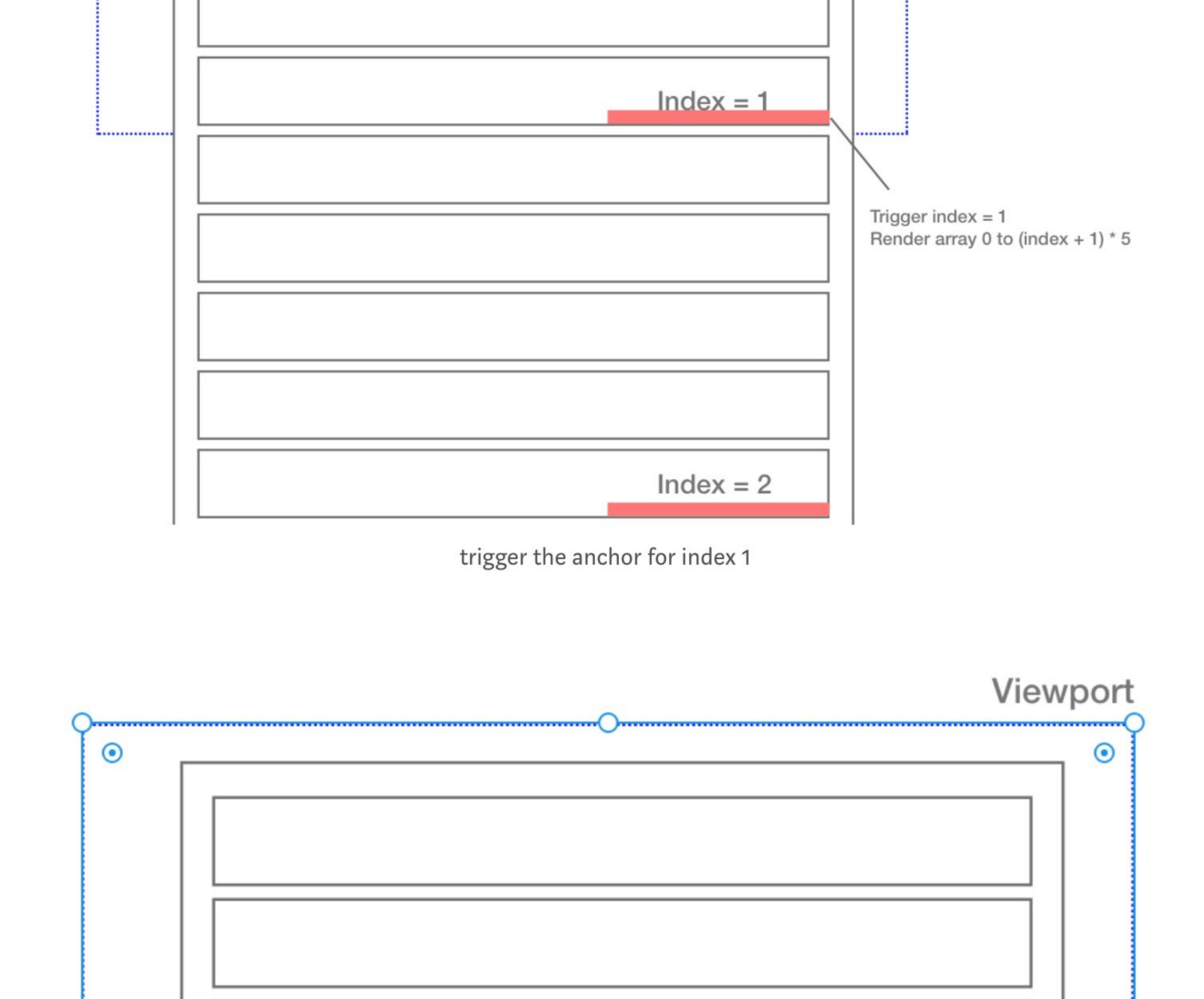
Index = 1

Index = 2

Trigger

Render

0



render more rows

// if the anchor is triggered, render next section

{ cursor: +e.target.getAttribute('index') }

 $\odot$ 

Using IntersectionObserver would be like.

entries.forEach(e => {

this.setState(

if (e.isIntersecting) {

this.observer = new IntersectionObserver(

handleSentinel = (c) => {

if(!this.observer) {

entries => {

// create observer

);

});

},

React App

Change Type

(i) localhost:3000

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Show table | normal version.

root: document.querySelector('App'), rootMargin: '-30px', if (!c) return; // observe new anchor this.observer.observe(c) render() { const blockNum = 5; return( {MOCK\_DATA.slice(0, (cursor+1) \* blockNum).map(d => <Block> // insert anchor in each checkpoint // put an anchor every 5 rows d.id % blockNum === 0 ? <span ref={this.handleSentinel} index={d.id / blockNum} /> : null </Block>)} Full code here With infinite scroll

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Female

Male

Male

Female

Female

Male

Female

Female

3

11

13

84.249.235.72

36.104.42.208

229.66.22.251

57.208.128.141

81.148.95.126

127.136.168.54

216.147.137.137

144.2.60.11

180.142.36.192

29.171.24.123

12.40.225.213

108,118,199,54

18.5.17.106

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Frank Tsai

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