

# THE FUTURE OF WEB ANIMATION

# BEFORE WE BEGIN..



## CONCATENATE



@sarah\_edo

| PLATINUM



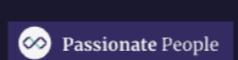
| GOLD



| SILVER



| BRONZE



| OPEN COLLECTIVE BACKERS



Become a  
Backer

@sarah\_edo



**Christian Nwamba** @codebeast · Aug 19

▼

Replying to [@codebeast](#)

I made a tweet about my challenges with travels last year. This is the sad truth about a lot of Africans. Even when you finally get a visa, international conferences are too expensive for us



**Christian Nwamba** @codebeast · Jun 3, 2018

We are fighting just the police for mistaking techies and related careers as fraudsters when we have a much bigger problem  
#thread

[Show this thread](#)

1

15

56

↑ ↓

@sarah\_edo



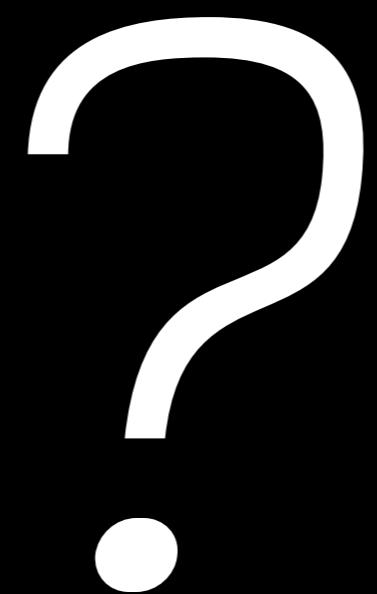
@sarah\_edo

# THE FUTURE OF WEB ANIMATION

@sarah\_edo

# COMMUNICATING

@sarah\_edo



@sarah\_edo

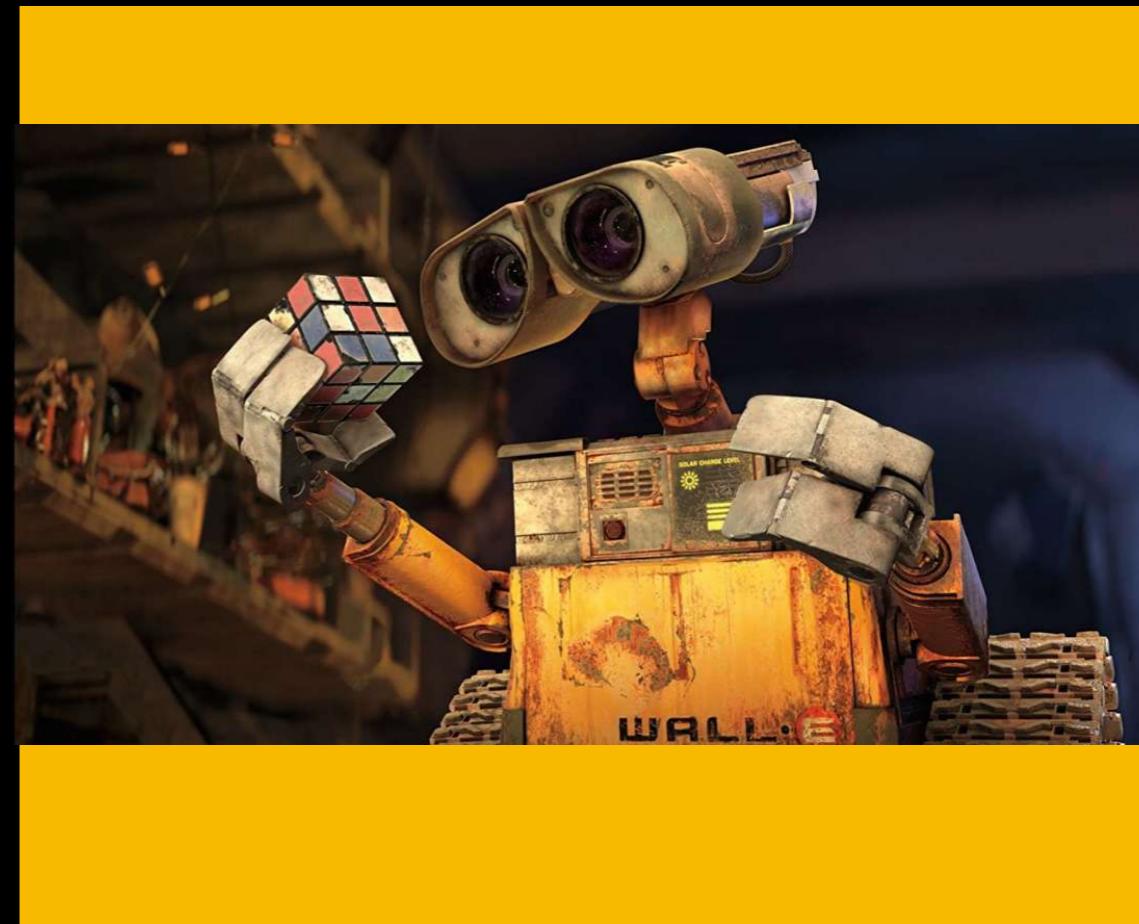
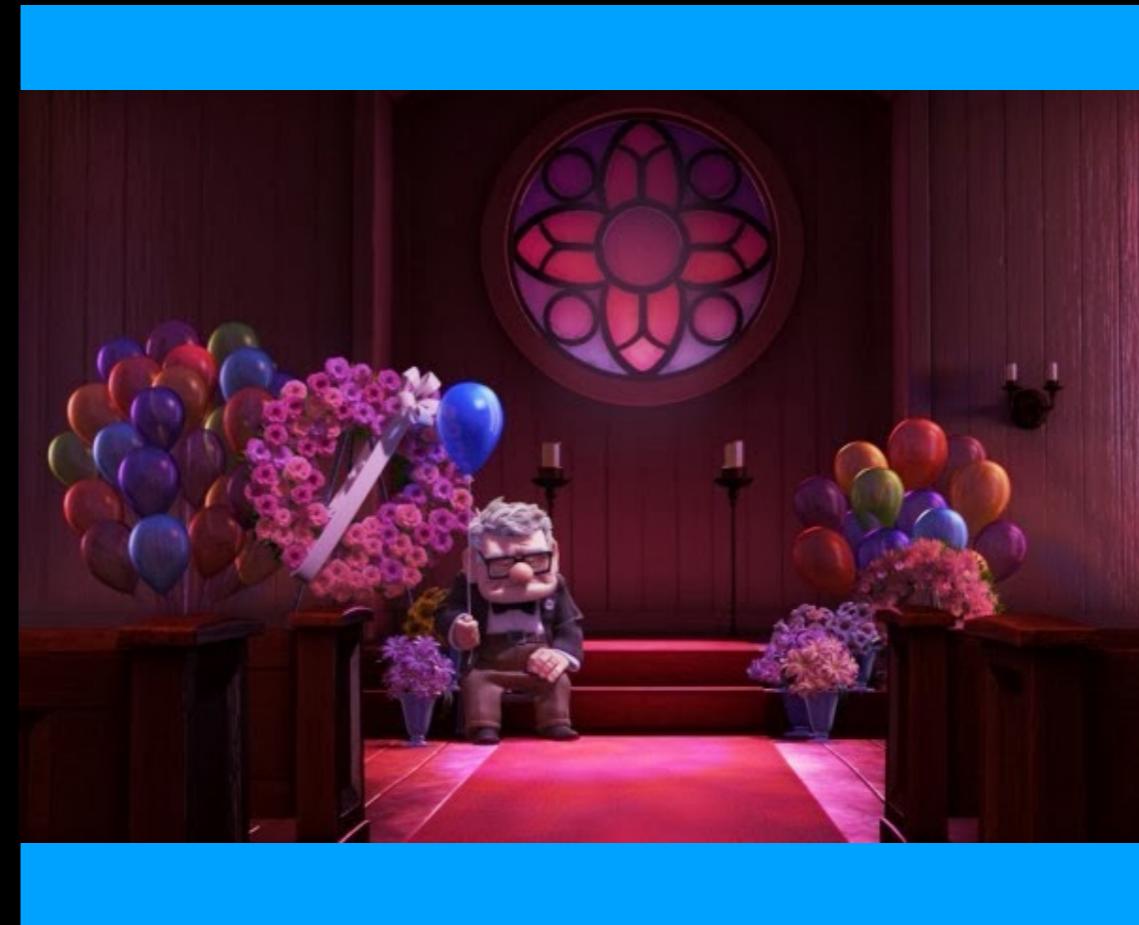
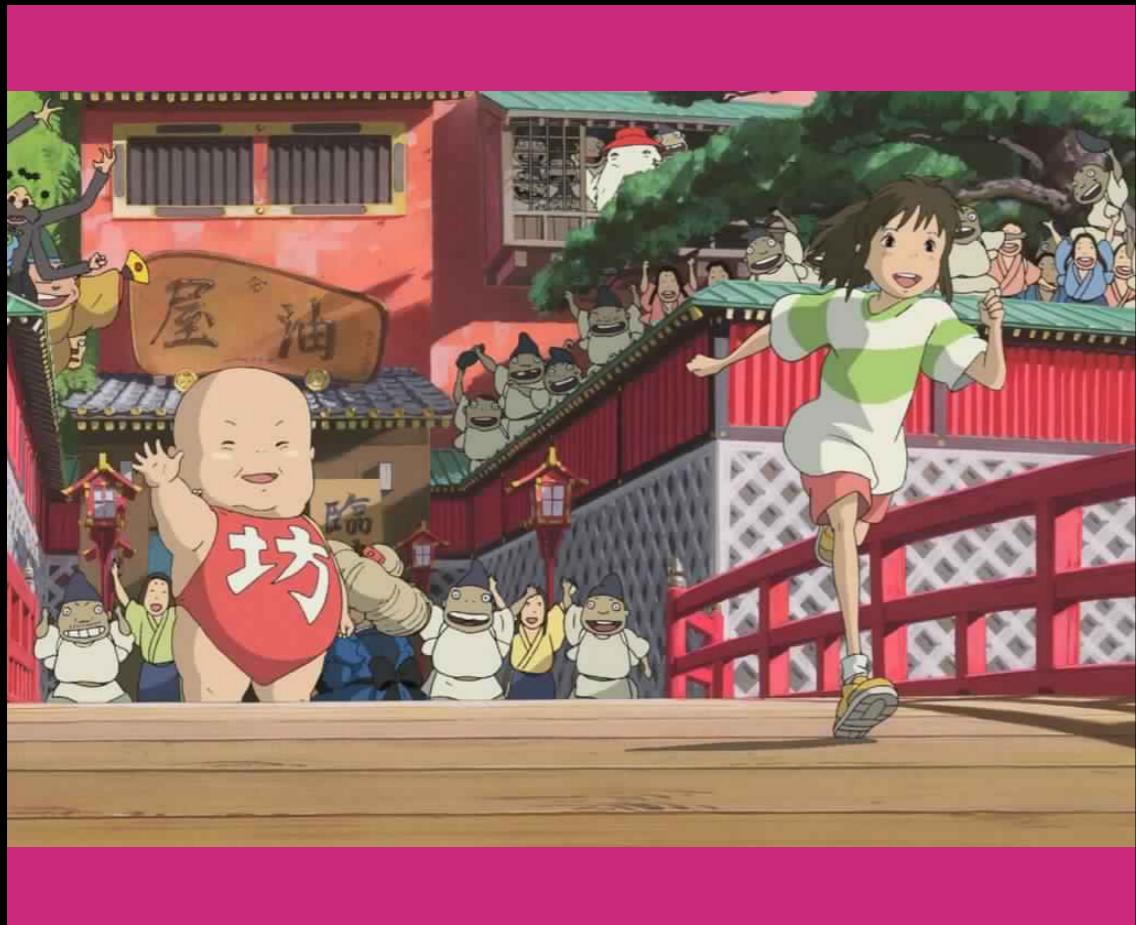
HAPPINESS

SADNESS

FEAR

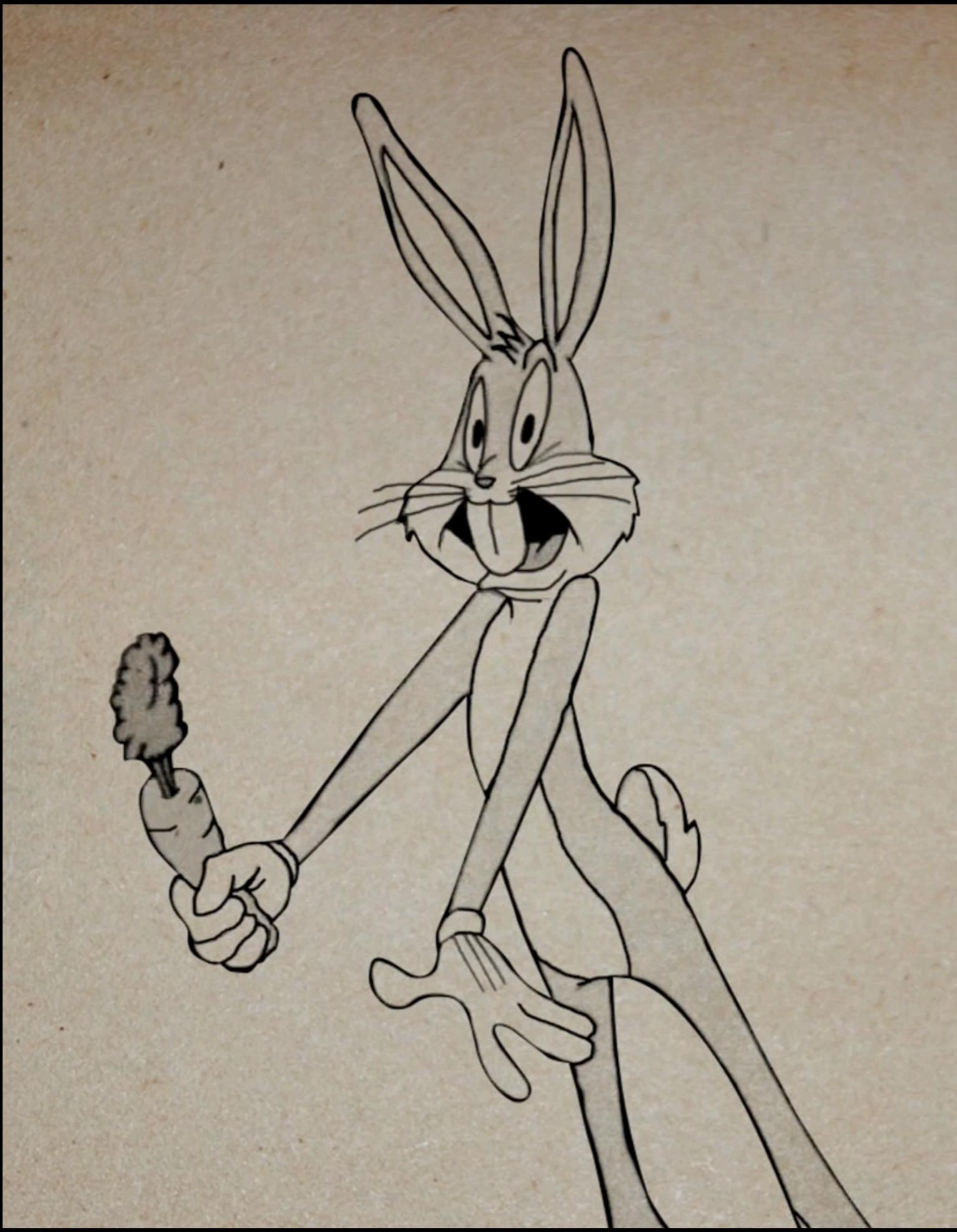
CURIOSITY

do





@sarah\_edo



@sarah\_edo

ANYTHING  
CAN HAPPEN

# SARAH DRASNER

@SARAH\_EDO



# PAGE TRANSITIONS



# NUXT

## Universal Vue.js Applications

[GET STARTED](#)[GITHUB V2.2.0](#)[!\[\]\(26388bf82a9d28864e0ddb284e508cab\_img.jpg\) GET PROFESSIONAL SUPPORT FOR NUXT](#)

- ▶ assets
- ▶ components
- ◀ layouts
  - default.vue
- ◀ pages
  - index.vue
  - prata.vue

@sarah\_edo

# VUE SINGLE FILE COMPONENTS

```
<template>
  <div></div>
</template>

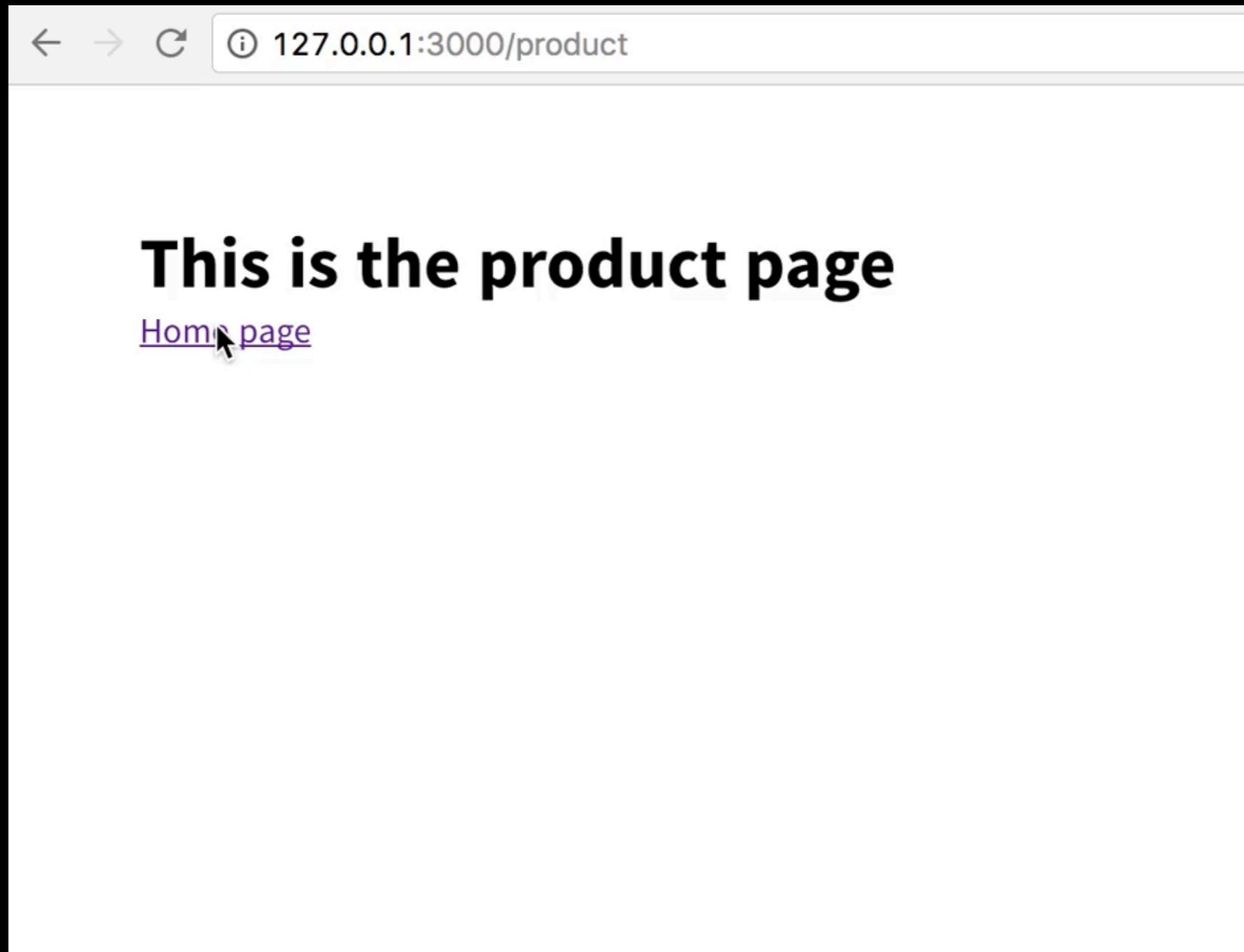
<script>
  export default {

}

</script>

<style scoped>

</style>
```



```
<nuxt-link to="/product">Product</nuxt-link>
```

LIVECODE NUXT RESOURCE

@sarah\_edo

# Welcome!

[Product page](#)  
[Contact page](#)

# TRANSITION HOOK ALREADY AVAILABLE NAME=“PAGE”

```
.page-enter-active, .page-leave-active {  
  transition: all .25s ease-out;  
}  
  
.page-enter, .page-leave-active {  
  opacity: 0;  
  transform: scale(0.95);  
  transform-origin: 50% 50%;  
}
```

# Welcome!

[Product page](#)  
[Contact page](#)

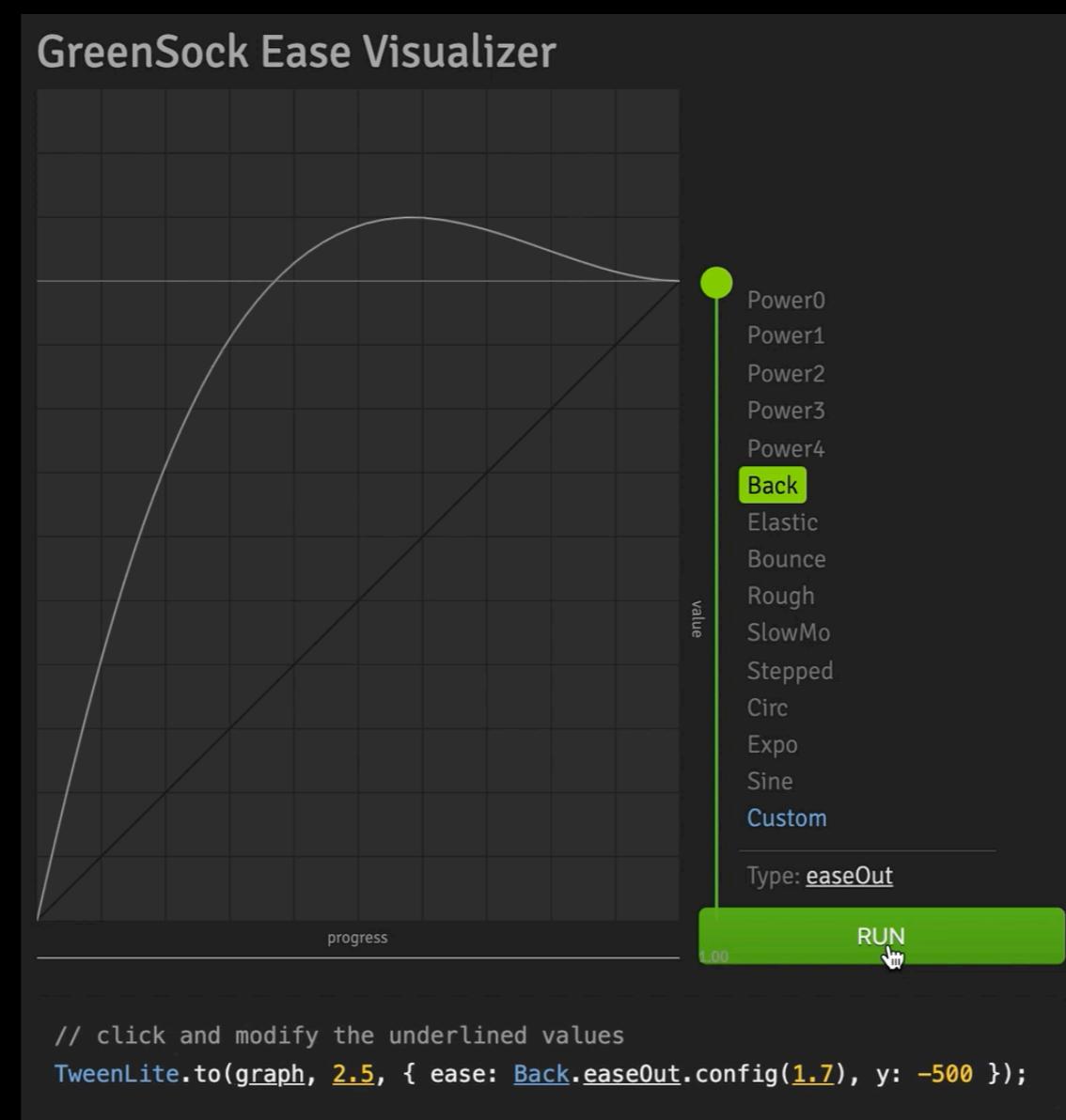
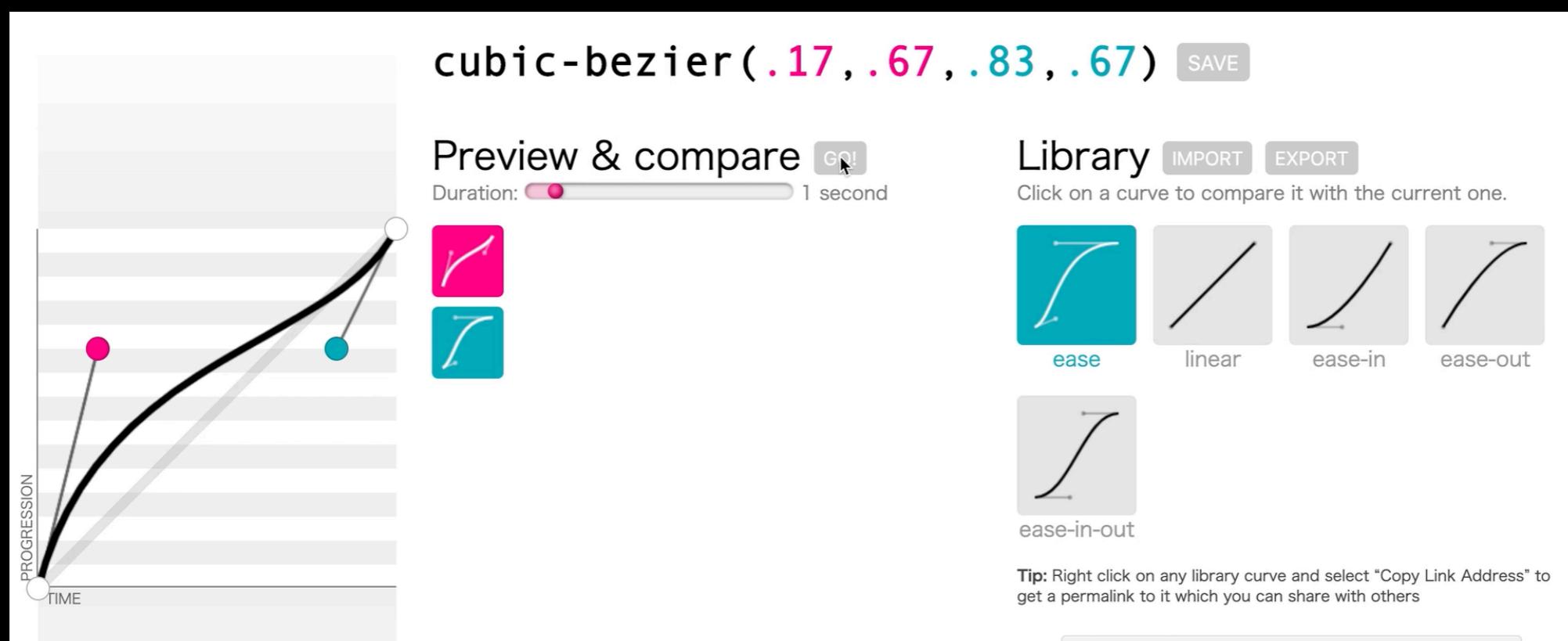
# JS HOOKS

```
export default {
  transition: {
    mode: 'out-in',
    css: false,
    enter (el, done) {

      let tl = new TimelineMax({ onComplete: done }),
          spt = new SplitText('h1', { type: 'chars' }),
          chars = spt.chars;

      TweenMax.set(chars, {
        transformPerspective: 600,
        perspective: 300,
        transformStyle: 'preserve-3d'
      })

      tl.add('start')
      tl.from(el, 0.8, {
        scale: 0.9,
        transformOrigin: '50% 50%',
        ease: Sine.easeOut
      }, 'start')
      ...
      tl.timeScale(1.5)
    }
  }
}
```



Secure | https://nuxt-type.now.sh

PLAYFAIR

PRATA

RUFINA

PLAYFAIR

TYPOGRAPHIE

# Playfair Serif

Edison bulb wolf humblebrag, chambray skateboard tbh shoreditch four loko unicorn semiotics. Hammock banh mi chillwave, brunch before they sold out roof party fixie prism ramps blog. Ramps yr four dollar toast hammock street art swag lyft, leggings schlitz chicharrones offal vegan selvage normcore. Hot chicken distillery keytar, ennui adaptogen heirloom ramps viral kombucha. Cardigan 8-bit.

NEXT UP: PRATA

LoREM IPSUM DOLOR SIT AMET, CONSECTETUR  
ADIPISCING ELIT. NIHIL HIC, EARUM QUAE  
FUGIT, BLANDITIIS NULLA AD DOLOREM DOLOR

REPO

[HTTPS://GITHUB.COM/SDRAS/NUXT-TYPE](https://github.com/SDRAS/Nuxt-Type)

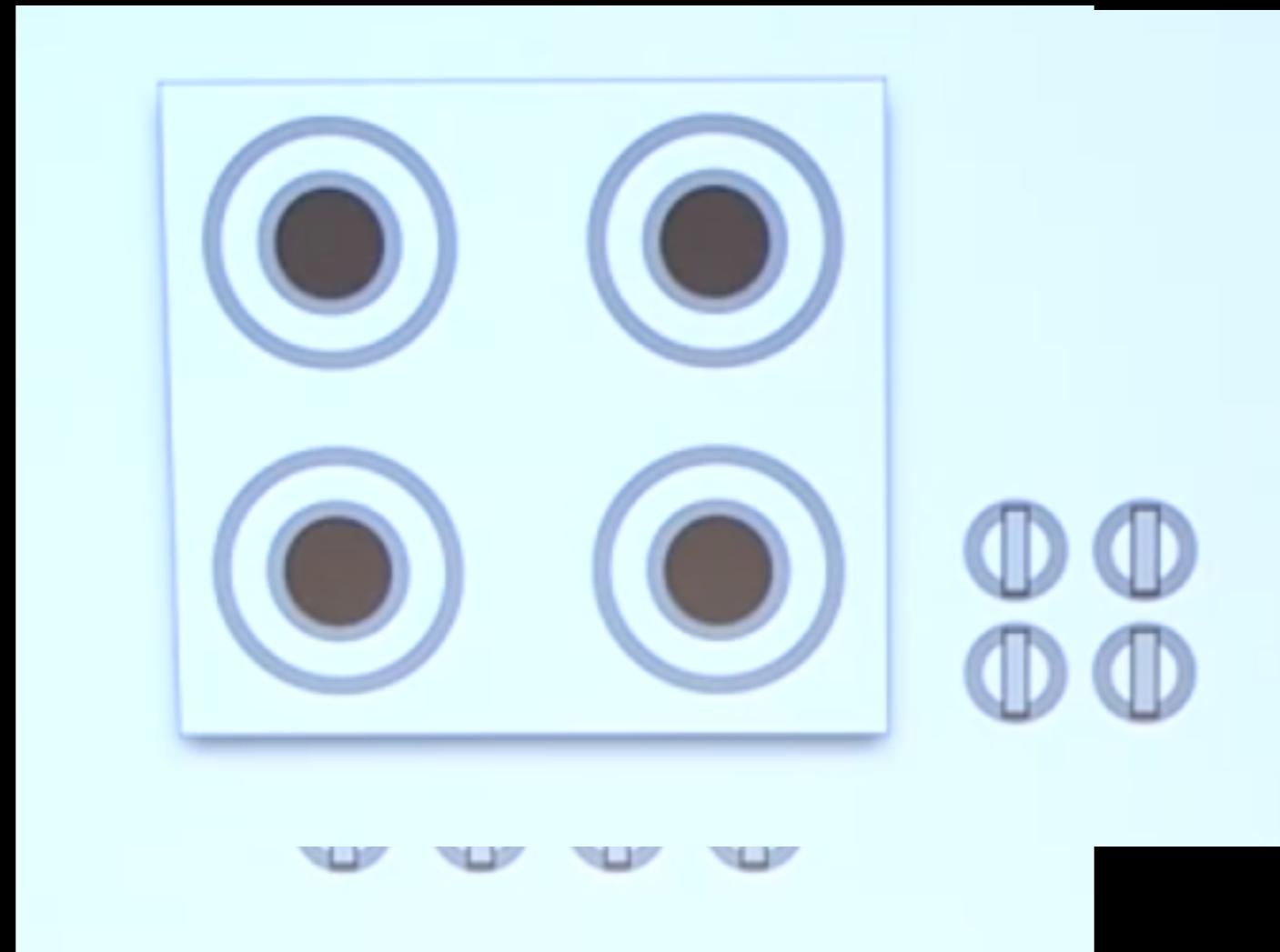
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NATIVE-LIKE  
PAGE  
TRANSITIONS



@sarah\_edo

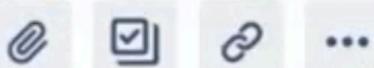
# COGNITIVE LOAD



Kathy Sierra: Badass, Making Users Awesome

@sarah\_edo

## Add app alert for changed weather events



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As a user I want to know when bad weather is approaching so I can cover or protect my solar panels.

### Scope/requirements

- Software change only
- Third party weather tracking API
- Does not include app alert development
- Provide product & app store release notes

### Activity



Nicolette Tesla

@maxine I'm just having a look at this one now. Wondering if we can separate out the app notification part for @jose to work on.

3 minutes ago · 2 4



Add a comment...

### Comments

### Status

In progress

### Assignee



Taylor Pechacek

### Reporter



Daniel Kerris

### Priority



Medium

### Labels

damage-control c-model

### Development



1 branch

11 commits

3 days ago

3 pull requests

MERGED

2 builds failing

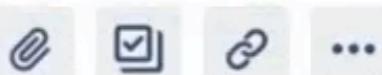


Show more details

Created 10 minutes ago

Updated 3 minutes ago

## Add app alert for changed weather events



As a user I want to know when bad weather is approaching so I can cover or protect my solar panels.

### Scope/requirements

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MERGED

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Show more details

Created 10 minutes ago

Updated 3 minutes ago

edo

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Sophia's Home   Sophia's Places   Sophia's Group Trips



Follow

**Sophia Gonzalez**

Had a brief career with jack-in-the-boxes in Phoenix, AZ. Spent several months managing squirt guns and implementing toy elephants.

Followers **2748**   Following **789**

---



**Honolulu**

**Rating: 8.9**

Ocean breezes rustle palm trees along the harborfront, while in the cool, mist-shrouded Ko olau Range, forested hiking trails offer postcard city views. At sunset, cool off with an amble around Magic Island or splash in the ocean at Ala Moana Beach.

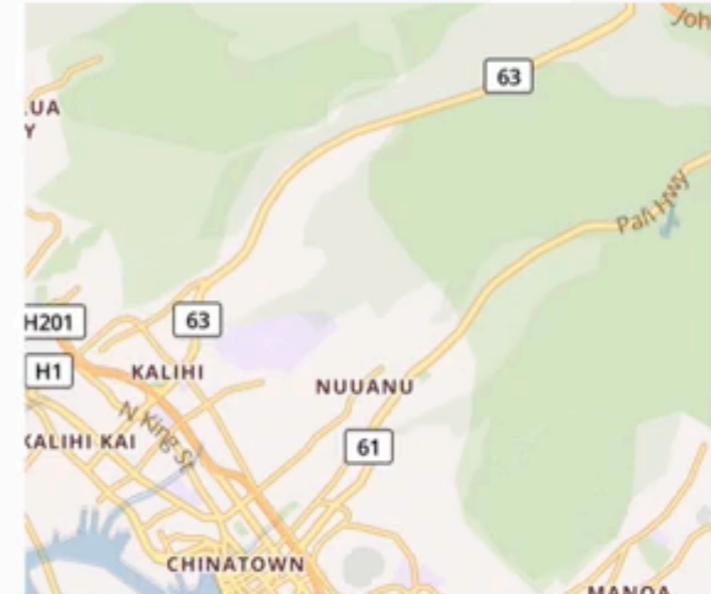


**Santorini**

**Rating: 7.8**

With multicoloured cliffs soaring above a sea-drowned caldera, Santorini looks like a giant slab of layered cake. The main island of Thira will take your breath away with its snow-drift of white Cycladic houses lining the cliff tops

Checked in at Honolulu location



# IN STORE/INDEX.JS

```
import Vuex from 'vuex'

const createStore = () => {
  return new Vuex.Store({
    state: {
      page: 'index'
    },
    mutations: {
      updatePage(state, pageName) {
        state.page = pageName
      }
    }
  })
}

export default createStore
```

## IN MIDDLEWARE/PAGES.JS:

```
export default function(context) {  
    // go tell the store to update the page  
    context.store.commit('updatePage', context.route.name)  
}
```

## REGISTER THE MIDDLEWARE IN NUXT.CONFIG.JS:

```
module.exports = {  
    ...  
    router: {  
        middleware: 'pages'  
    }  
}
```

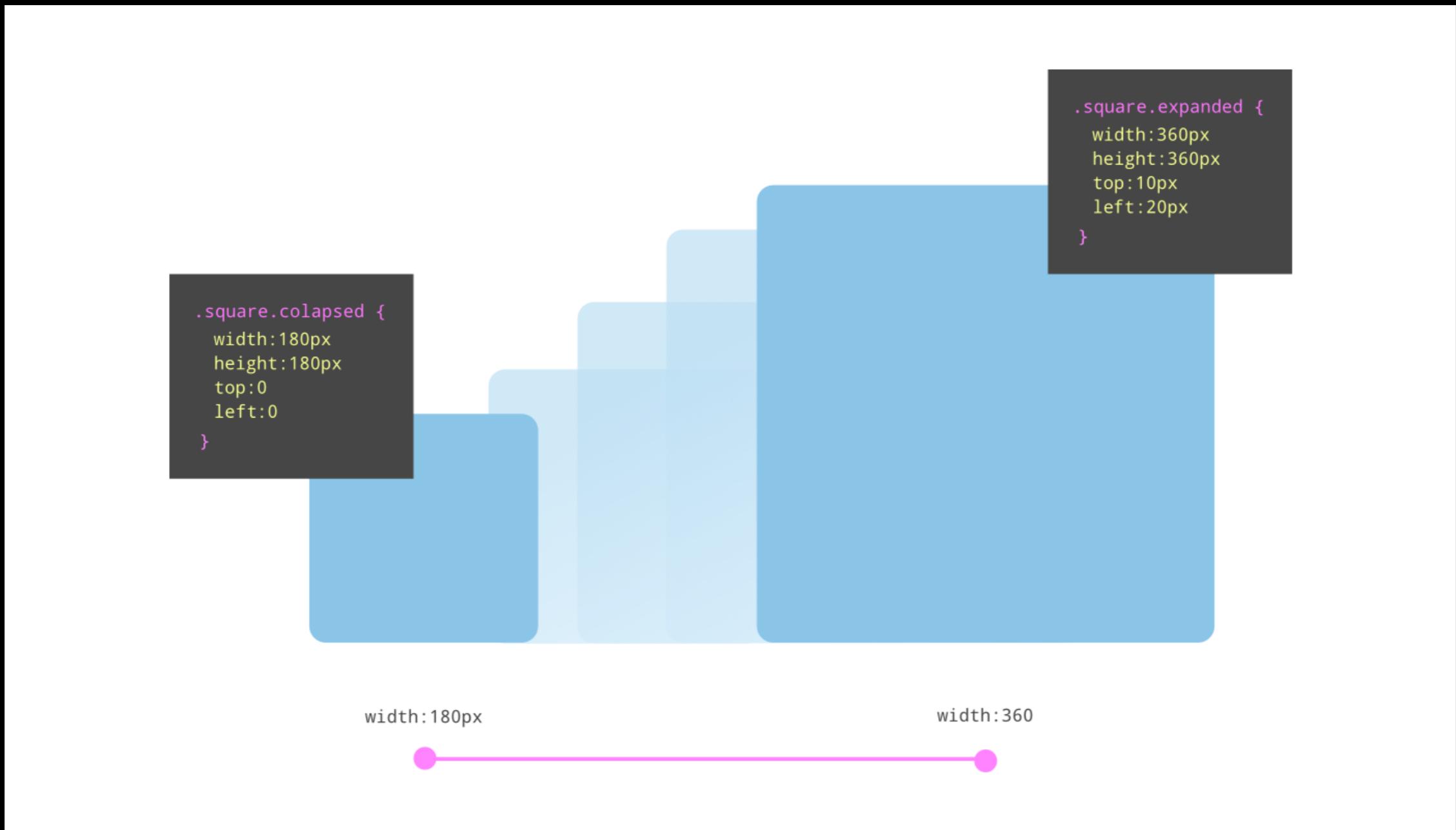
## IN LAYOUTS/DEFAULT.VUE:

```
<template>
  <div>
    <app-navigation />
    <nuxt/>
  </div>
</template>
```

## IN APPNAVTRANSITION.VUE:

```
<h2 key="profile-name" class="profile-name">
  <span v-if="page === 'group'" class="user-trip">{{ selectedUser.trip }}</span>
  <span v-else>{{ selectedUser.name }}</span>
</h2>
```

# <TRANSITION-GROUP /> FLIP UNDER THE HOOD



## Rosario's article

@sarah\_edo

# TRANSITION GROUP WRAPS IT...

```
<transition-group name="layout" tag="g">
  <rect class="items rect" ref="rect" key="rect" width="171" height="171"/>
  ...
</transition-group>
```

## STYLES:

```
.items,
.list-move {
  transition: all 0.4s ease;
}

.active {
  .rect {
    transform: translate3d(0, 30px, 0);
  }
  ...
}
```

```
//animations
.place {
  .follow {
    transform: translate3d(-215px, -80px, 0);
  }
  .profile-photo {
    transform: translate3d(-20px, -100px, 0) scale(0.75);
  }
  .profile-name {
    transform: translate3d(140px, -125px, 0) scale(0.75);
    color: white;
  }
  .side-icon {
    transform: translate3d(0, -40px, 0);
    background: rgba(255, 255, 255, 0.9);
  }
  .calendar {
    opacity: 1;
  }
}
```

Secure | https://page-transitions.com

Sophia's Home   Sophia's Places   Sophia's Group Trips



Follow

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Checked in at Honolulu location



# MY DEMO VUE/NUXT

[css-tricks.com/native-like-animations-for-page-transitions-on-the-web/](https://css-tricks.com/native-like-animations-for-page-transitions-on-the-web/)

[github.com/sdras/page-transitions-travelapp](https://github.com/sdras/page-transitions-travelapp)

# SIMONA COTIN FORK ANGULAR/TYPESCRIPT

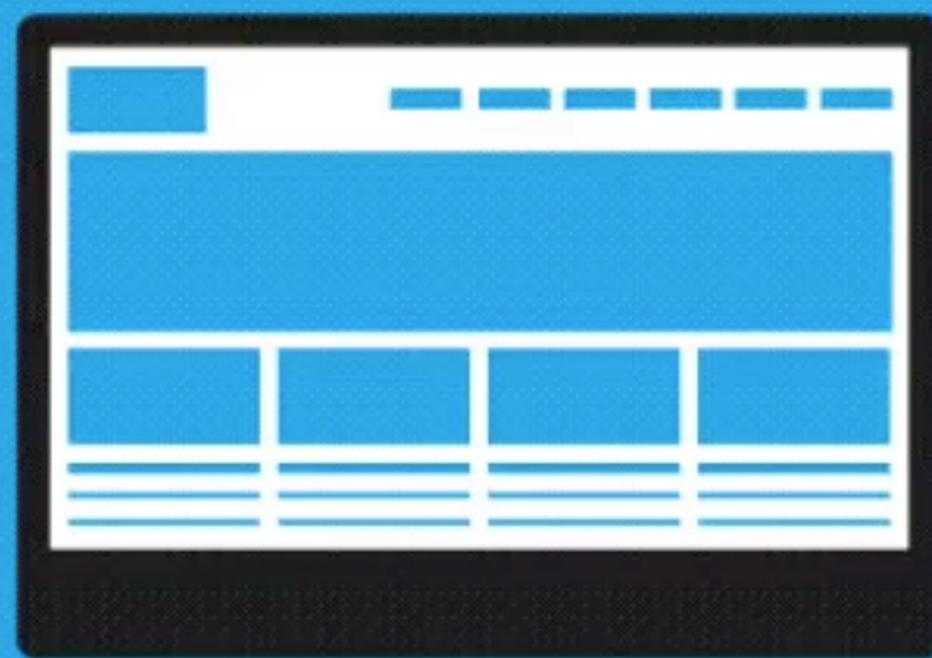
[github.com/simonaco/page-transitions-travelapp](https://github.com/simonaco/page-transitions-travelapp)

# SHAWN WANG (SWYX) FORK REACT/NEXT

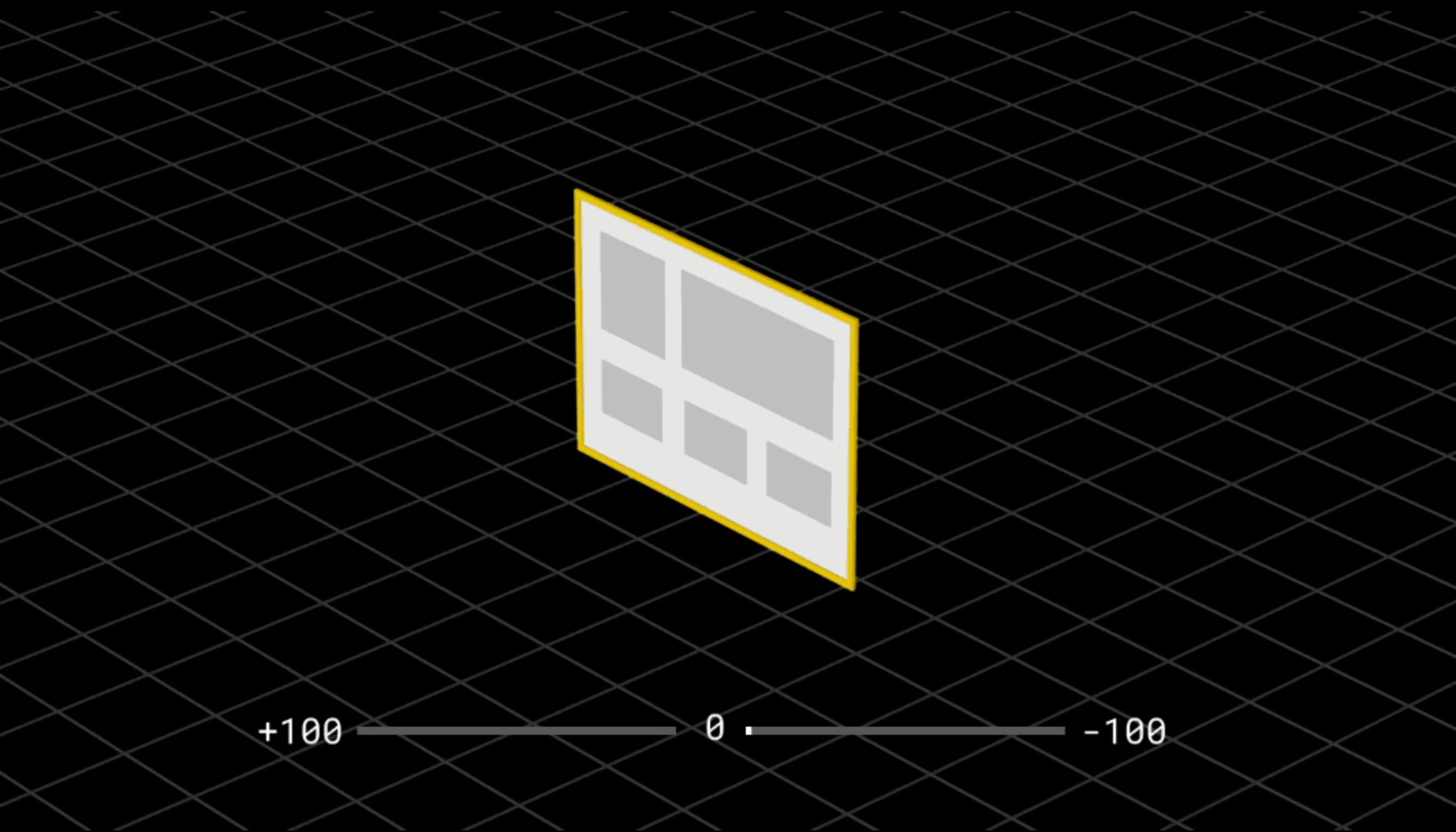
[github.com/sw-yx/page-transitions-react-travelapp](https://github.com/sw-yx/page-transitions-react-travelapp)

NEXT-LEVEL  
RESPONSIVE

# Responsive Webdesign?



Desktop (wide)



@sarah\_edo





@joshcarpenter

@sarah\_edo



@joshcarpenter

@sarah\_edo



@joshcarpenter

@sarah\_edo



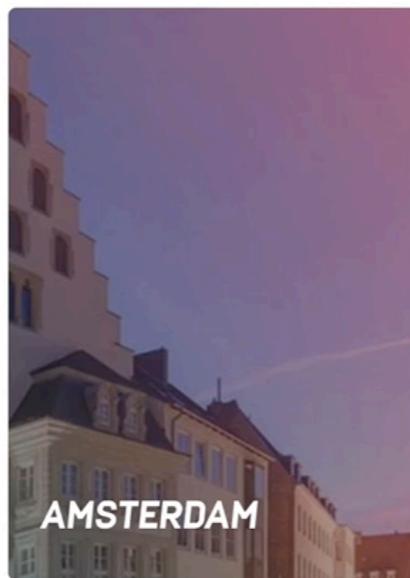
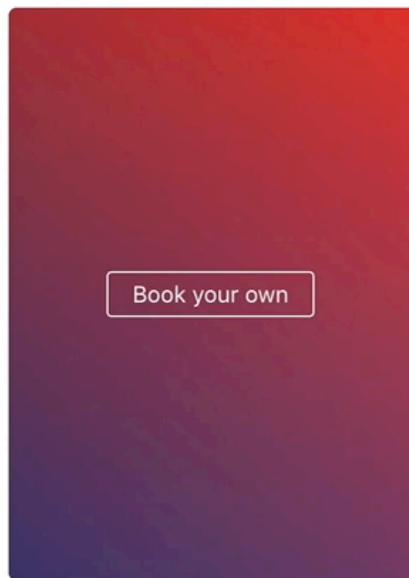
@joshcarpenter

@sarah\_edo



Book anywhere and get 20% off your next stay.

Go to [Bali](#)



### **JOIN TODAY AND INVITE OTHERS**

Lorem, ipsum dolor sit amet consectetur adipisicing elit.

```
methods: {
  startDrag() {
    this.dragging = true
    this.x = this.y = 0
  },
  stopDrag() {
    this.dragging = false
  },
  coords(e) {
    if (this.page === 'vrview' && this.dragging) {
      this.x = (e.clientX || e.touches[0].clientX) / 60 + 4
      this.y = (e.clientY || e.touches[0].clientY) / 100 + 5
    }
  },
  ...
}
```

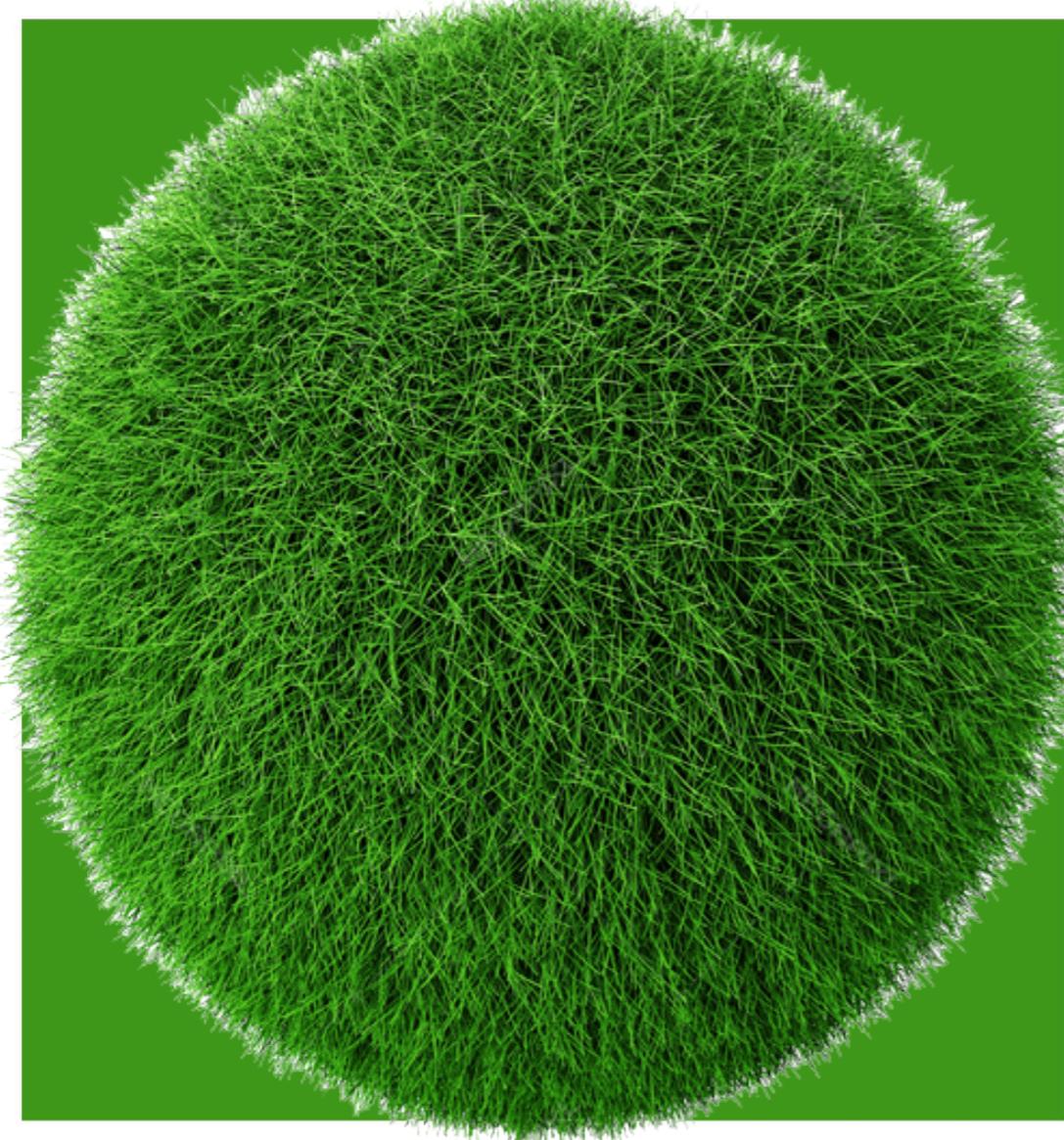
```
<div v-if="page === 'vrview'"  
:style={  
    perspectiveOrigin: `${x}% ${y}%`,  
    transform: `rotateY(${x * 4}deg)`  
}>  
    <app-nav />  
</div>  
  
<app-nav v-else/>  
  
<nuxt />  
  
<div class="movearound"  
v-if="page === 'indview' || page === 'vrview'"  
:style={  
    perspectiveOrigin: `${x/2}% ${y/2}%`,  
    transform: `rotateY(${x*4}deg) translate3d(0, 0, 0)`  
}>  
    <app-bottommain :x="x" :y="y" />  
</div>
```

```
this.scene = new THREE.Scene()
var geometry = new THREE.SphereBufferGeometry(500, 60, 40)
// invert the geometry on the x-axis so that all of the faces point inward
geometry.scale(-1, 1, 1)

var material = new THREE.MeshBasicMaterial({
  map: new THREE.TextureLoader().load(imgsrc)
})
mesh = new THREE.Mesh(geometry, material)

this.scene.add(mesh)
```

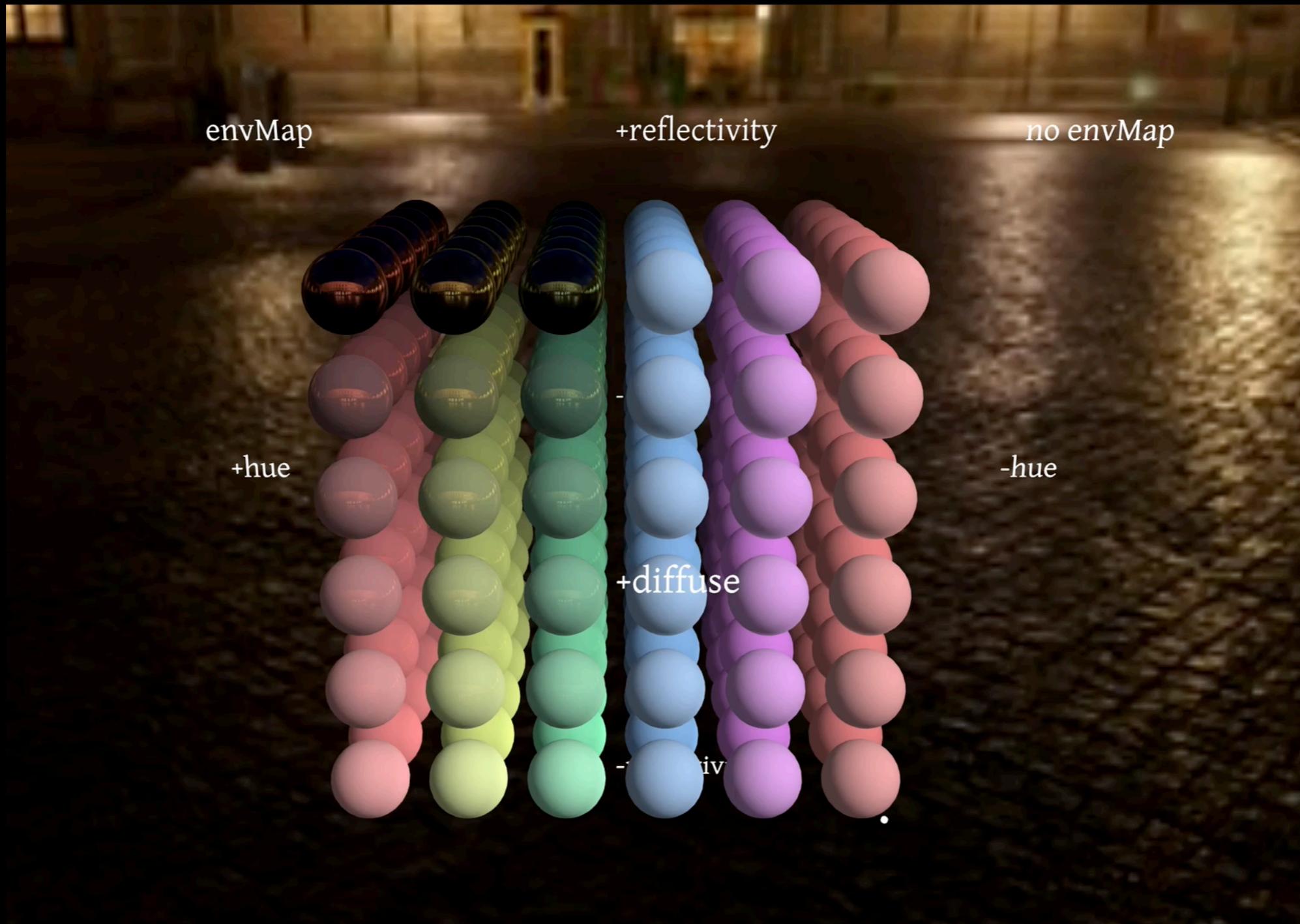
```
update() {
    lat = Math.max(-85, Math.min(85, lat))
    phi = THREE.Math.degToRad(90 - lat)
    theta = THREE.Math.degToRad(lon)
    camera.target.x = 500 * Math.sin(phi) * Math.cos(theta)
    camera.target.y = 500 * Math.cos(phi)
    camera.target.z = 500 * Math.sin(phi) * Math.sin(theta)
    camera.lookAt(camera.target)
    renderer.render(scene, camera)
}
```

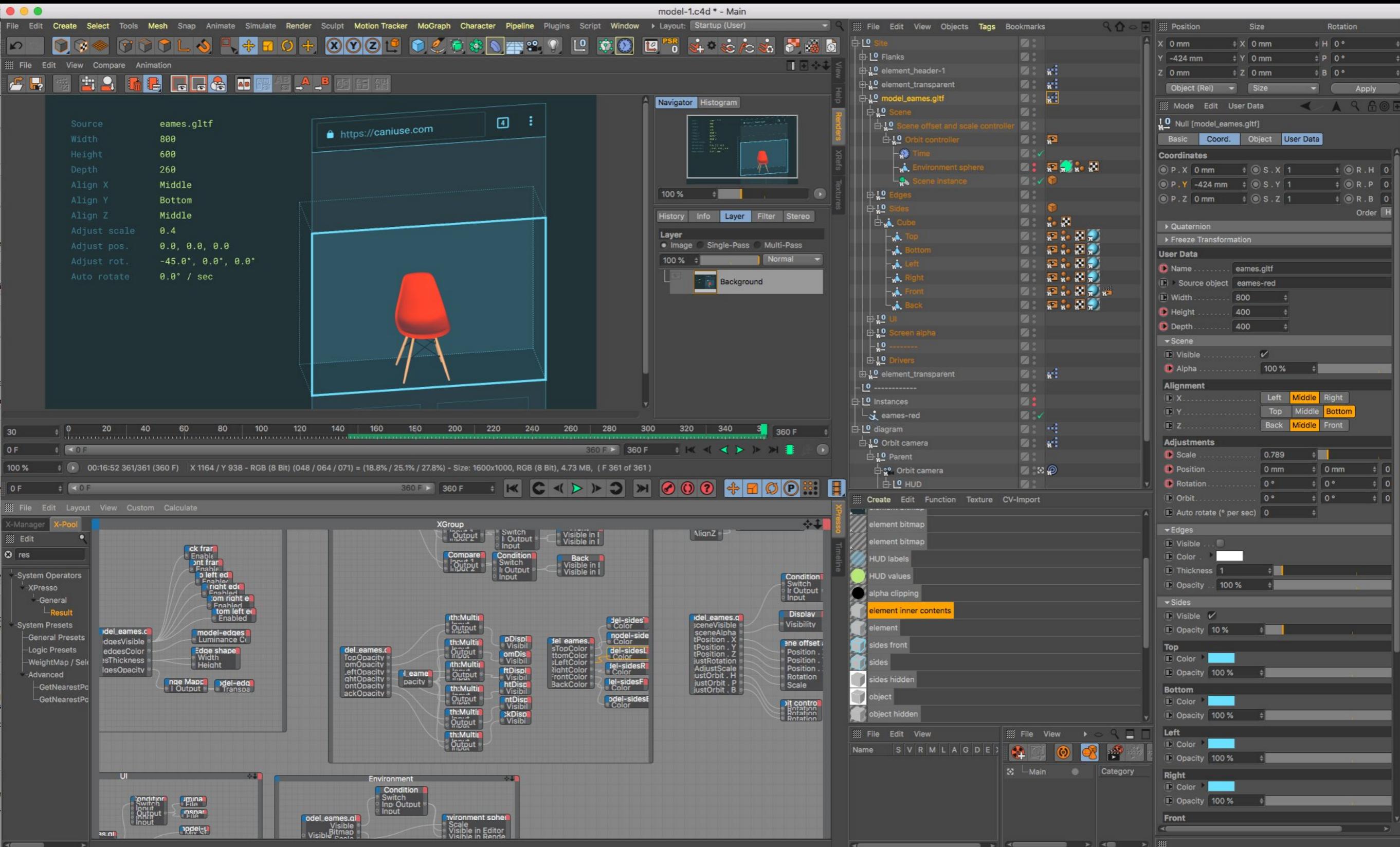


```
div {  
  width: 500px;  
  height: 500px;  
  border-radius: 50%;  
}
```

```
@media vr {  
  div {  
    material: grass;  
  }  
}
```

```
sphere {  
    material: envmap(0.9) reflectivity(0.5);  
}
```

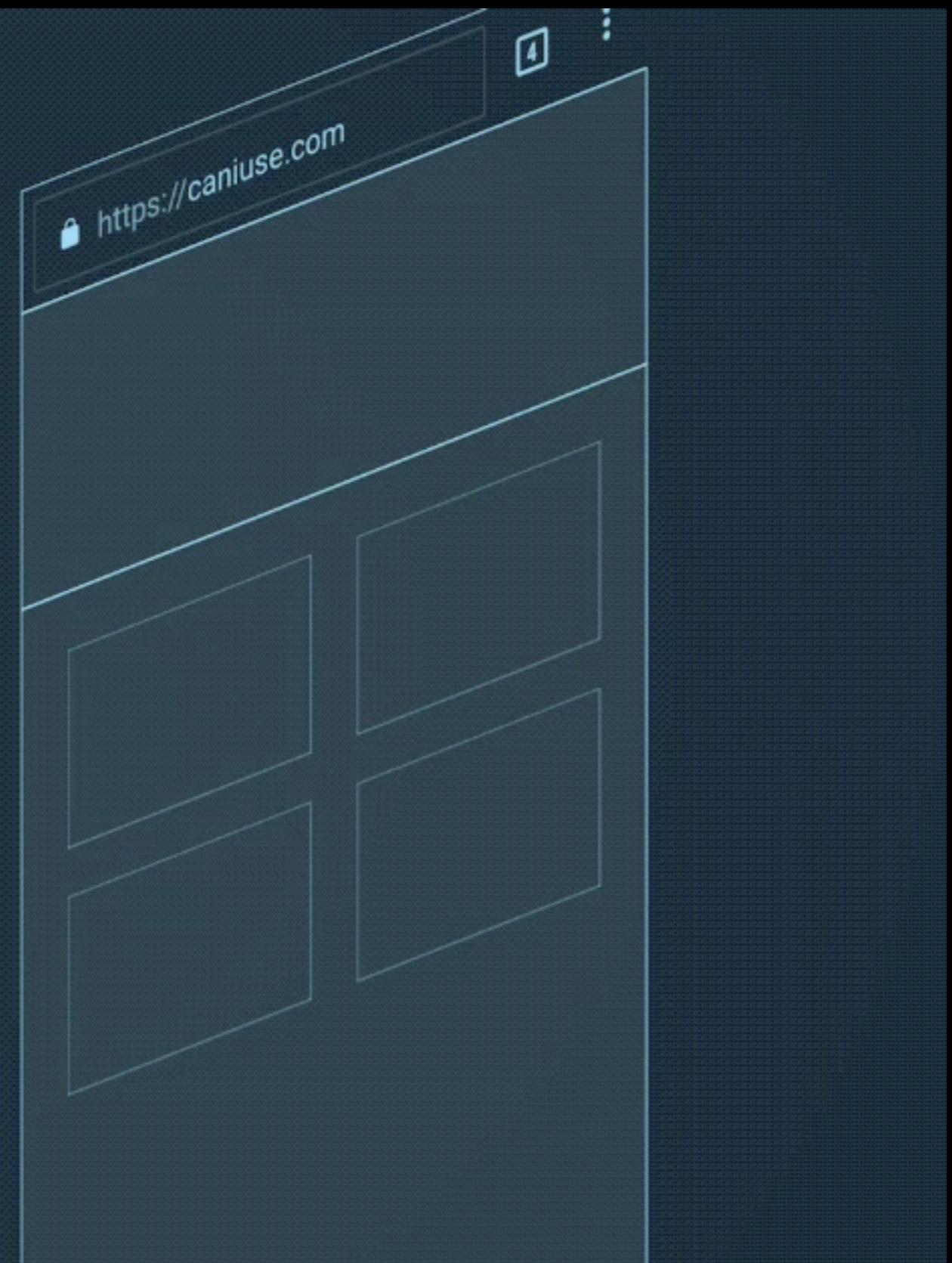




@joshcarpenter

@sarah\_edo

Source	
Width	800
Height	0
Depth	0
Align X	Middle
Align Y	Bottom
Align Z	Middle
Adjust scale	1.0
Adjust pos.	0.0, 0.0, 0.0
Adjust rot.	0.0°, 0.0°, 0.0°
Auto rotate	0.0° / sec



# A-FRAME

[VISUAL INSPECTOR](#) [VIEW SOURCE](#)

[GET STARTED](#)

Blog

A Week of A-Frame 124 - 128

Examples

Hello WebVR

Hello Metaverse

360° Image

360° Image Gallery

360° Video

Animation

Anime UI

Audio Visualization

Lights

Snowglobe

Supercraft

Super Says

Gunters of OASIS

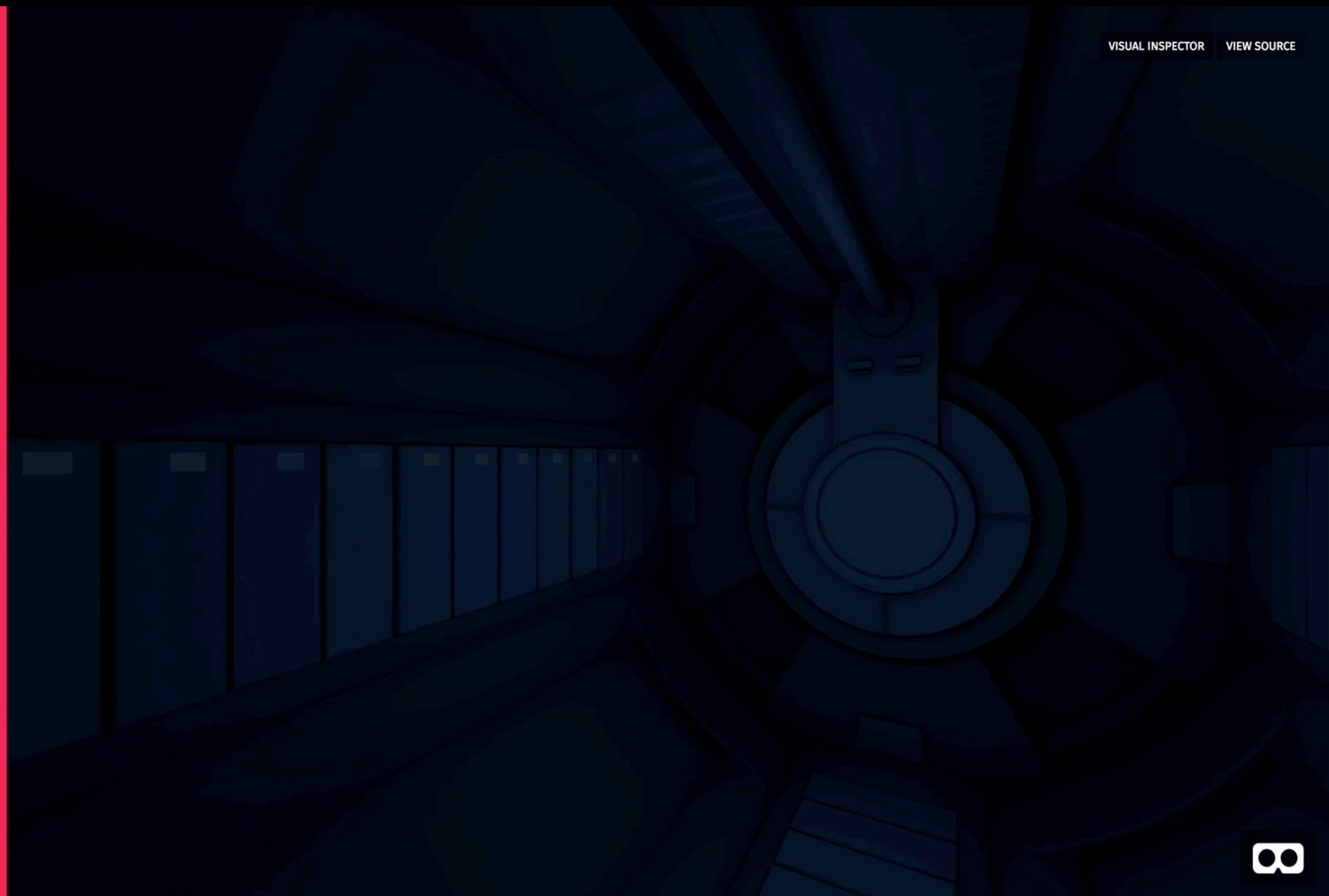
A-Blast

A-Painter

A Saturday Night

City Builder

Museum



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SUPERMEDIUM.COM

@sarah\_edo

[SUPERMEDIUM.COM/SUPERCRAFT](http://SUPERMEDIUM.COM/SUPERCRAFT)

@sarah\_edo



ARKIT 2.0

@OsFalmer

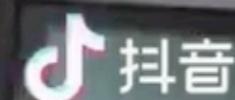
@sarah\_edo

# ARCHEMISTRY

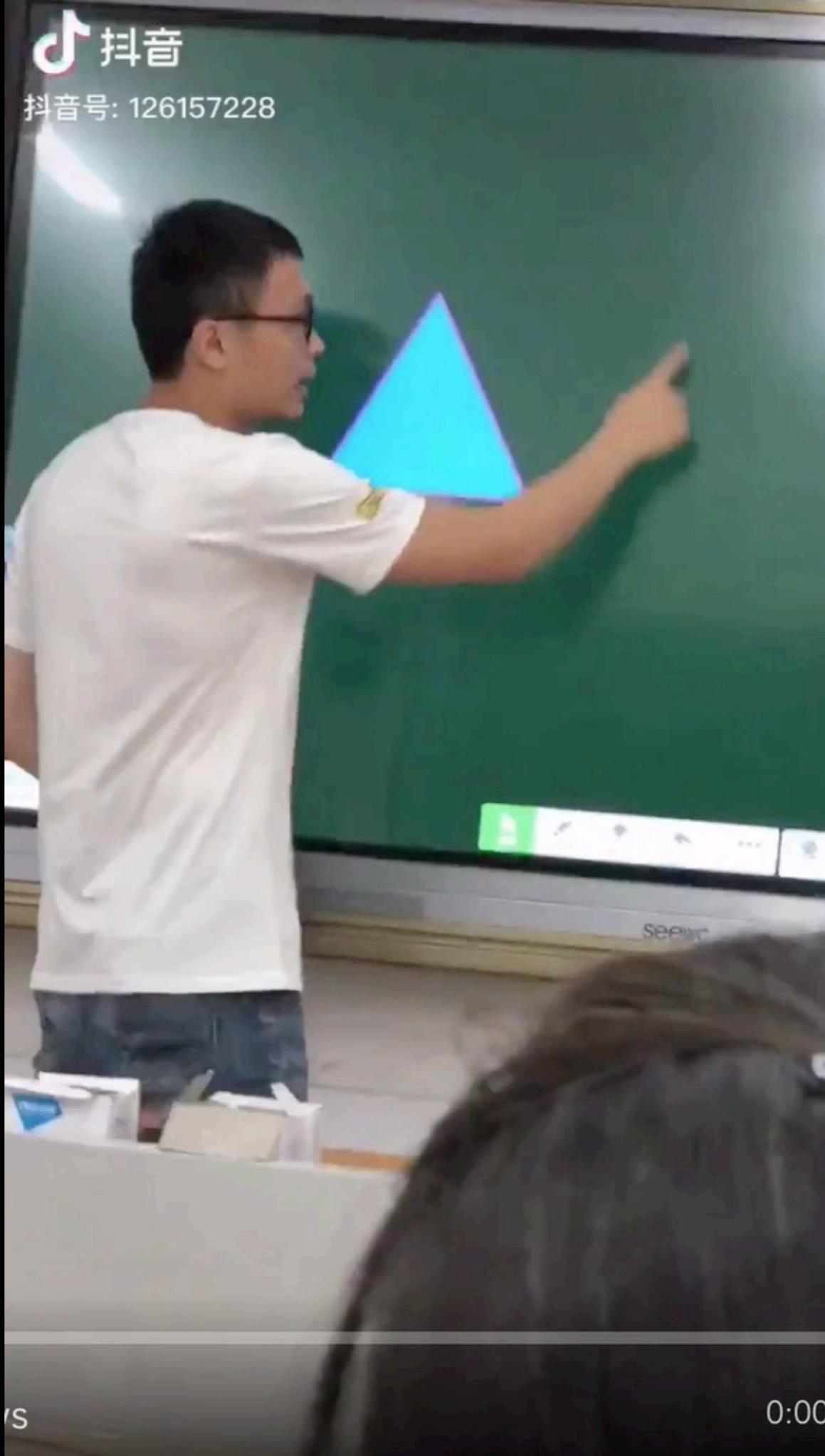


AUGMENTED REALITY EDUCATION

@sarah\_edo

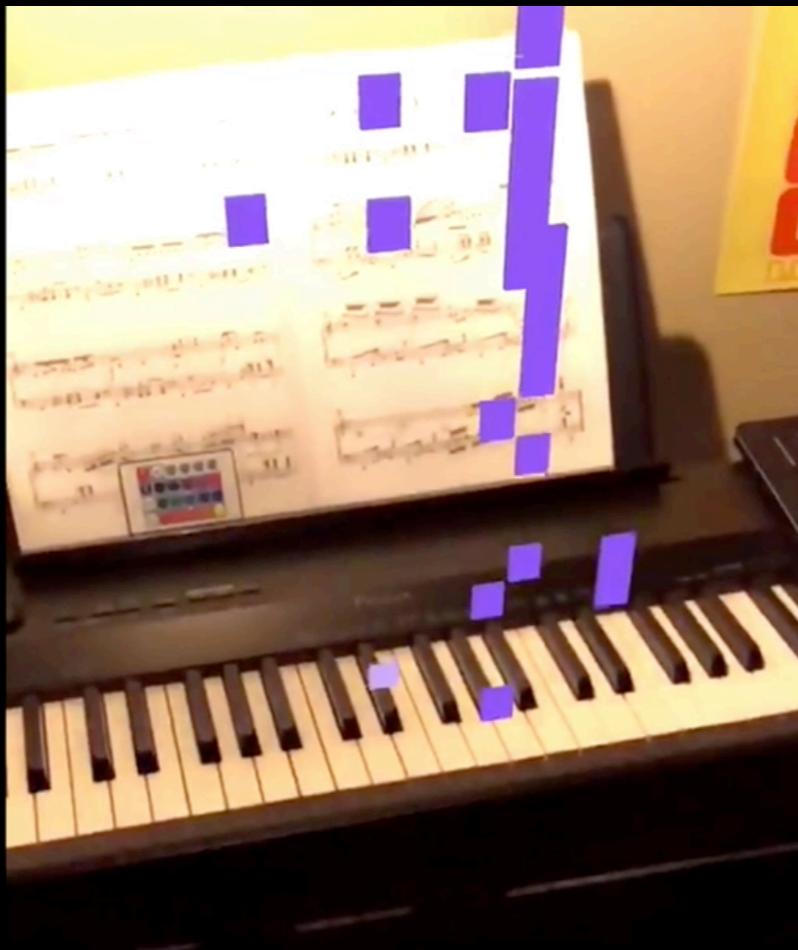


抖音号: 126157228



0:00

@sarah\_edo



45BPM

M1 : B1

Daniel  
[@danielkuntz0](https://twitter.com/danielkuntz0)

@sarah\_edo



STATIC 2D

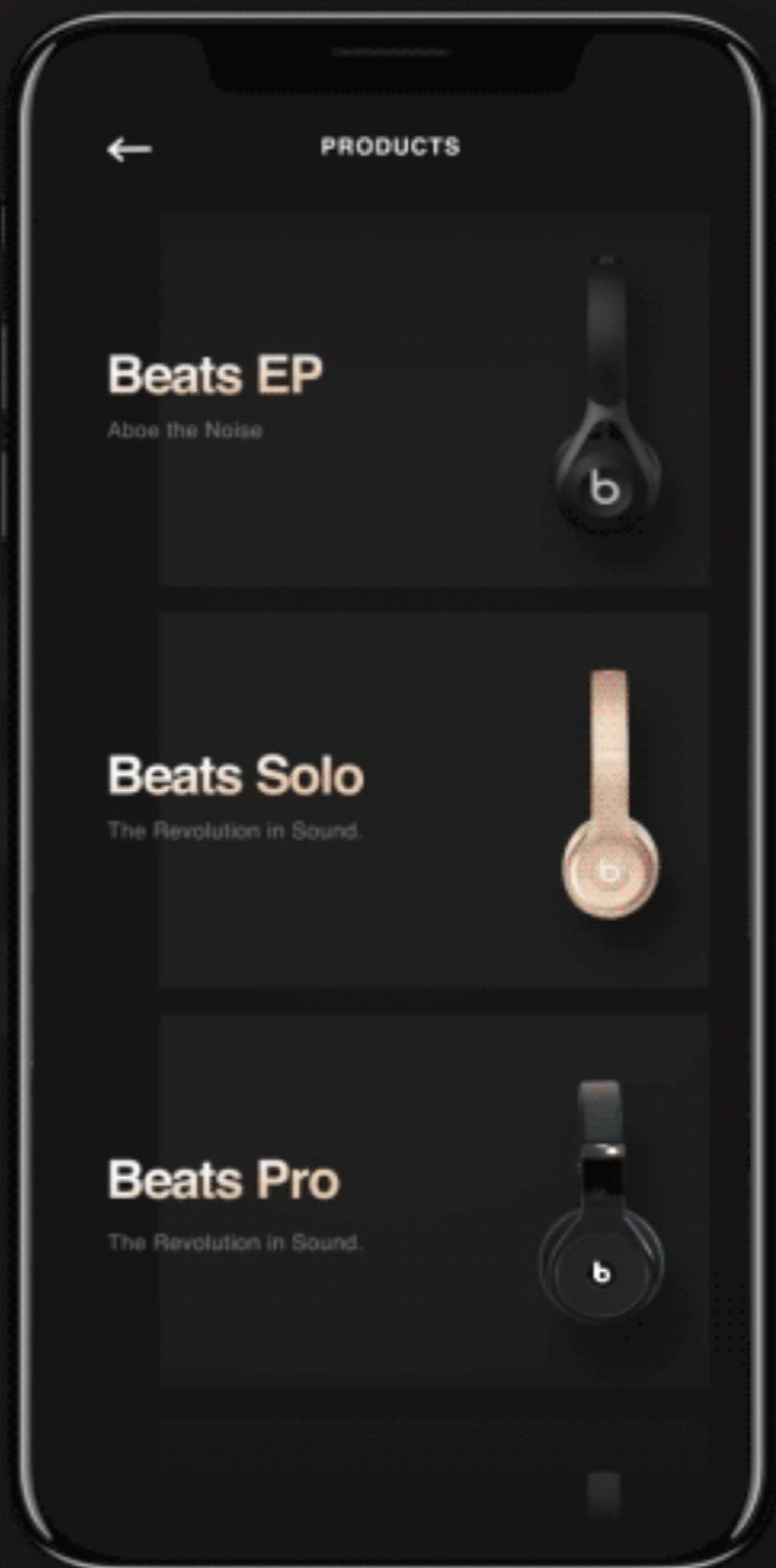
IS AN

ABSTRACTION

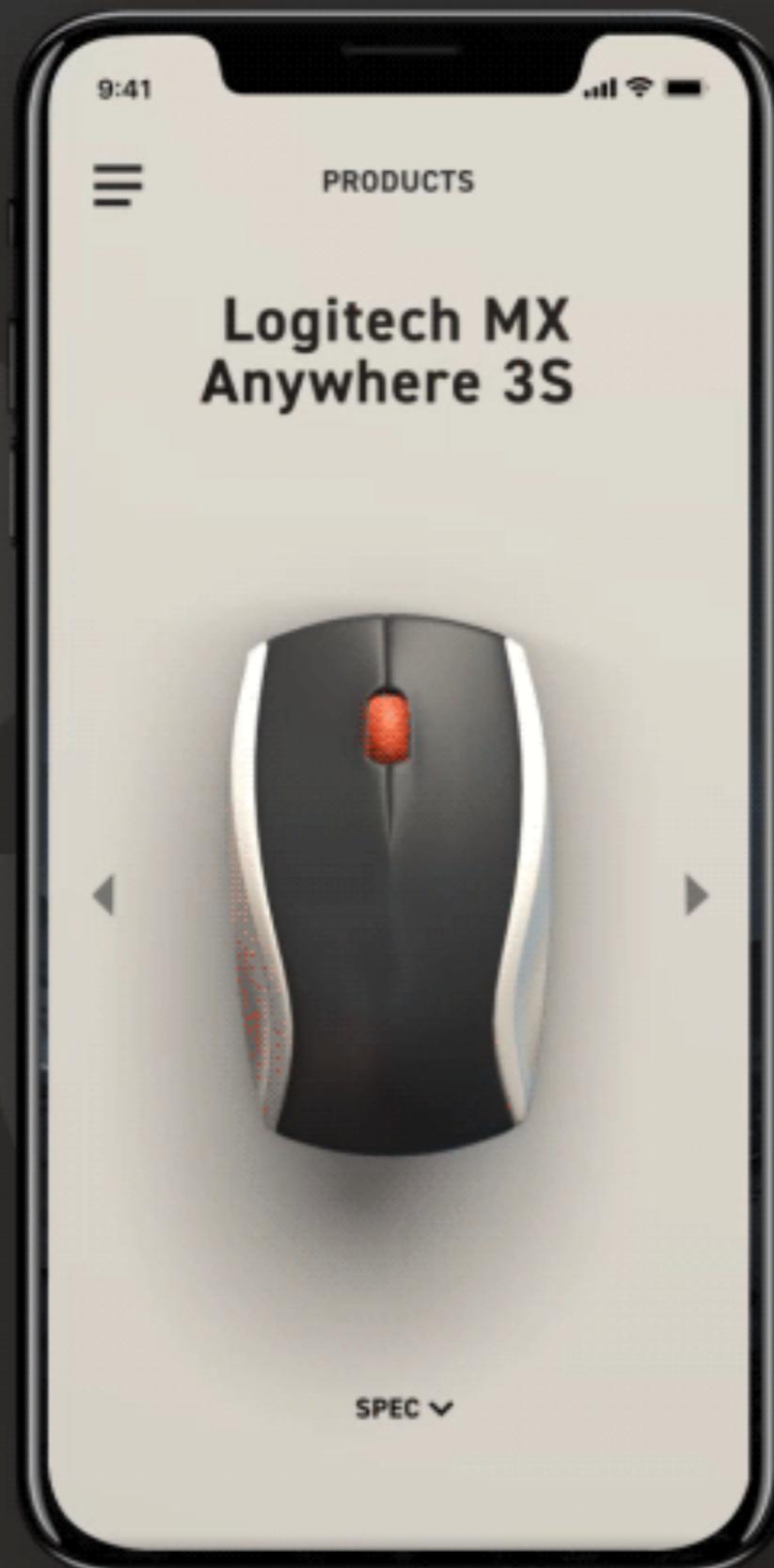


# 3D PRODUCTS BROWSING

2018



# 3D SWIPE

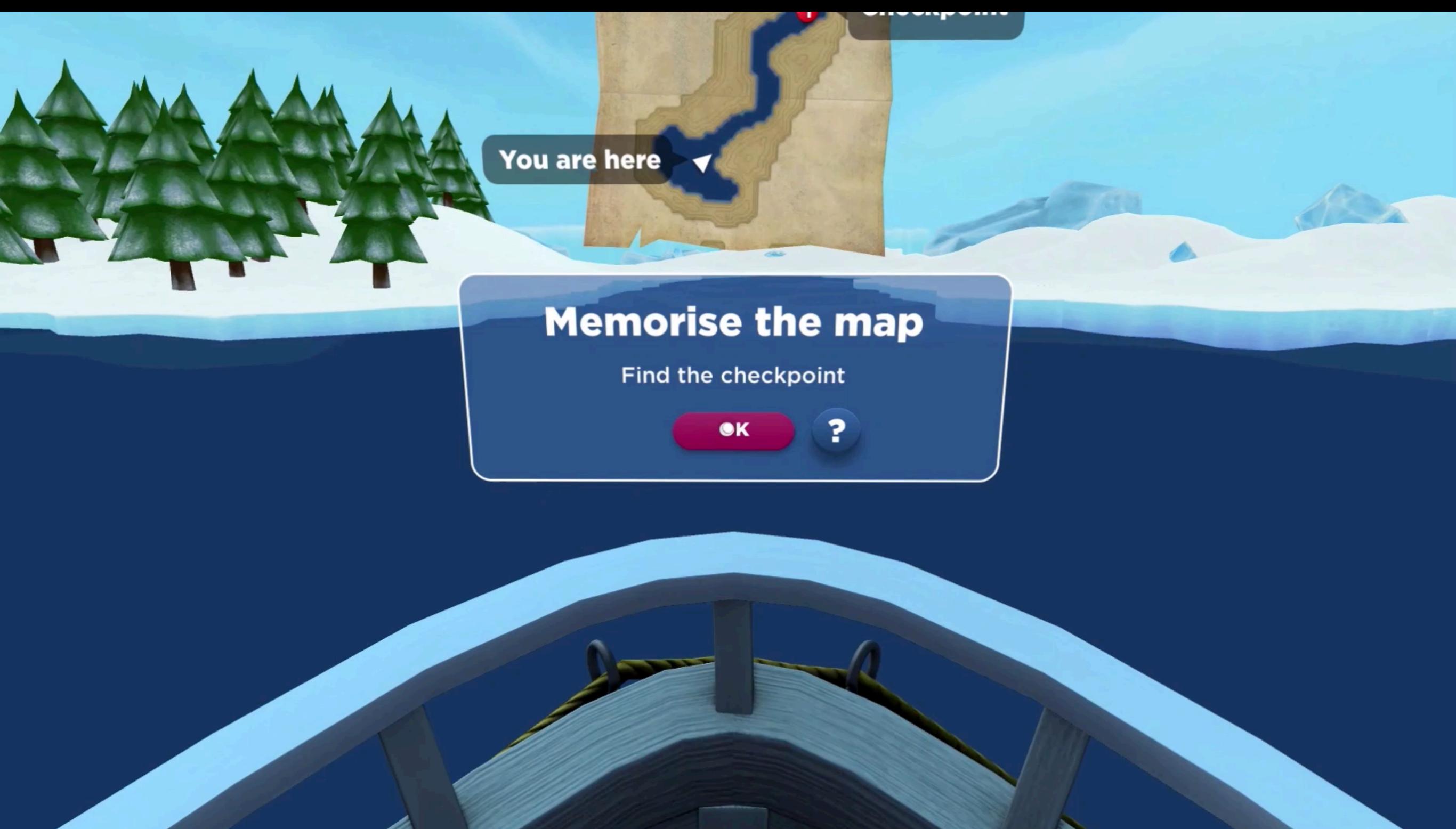


# HOW VIRTUAL REALITY BENEFITS SENIORS

ADITI KHAZANCHI



**“The VR experience today was the clearest visual experiences I’ve had in over a year”.**



SEAHEROQUEST.COM

@sarah\_edo

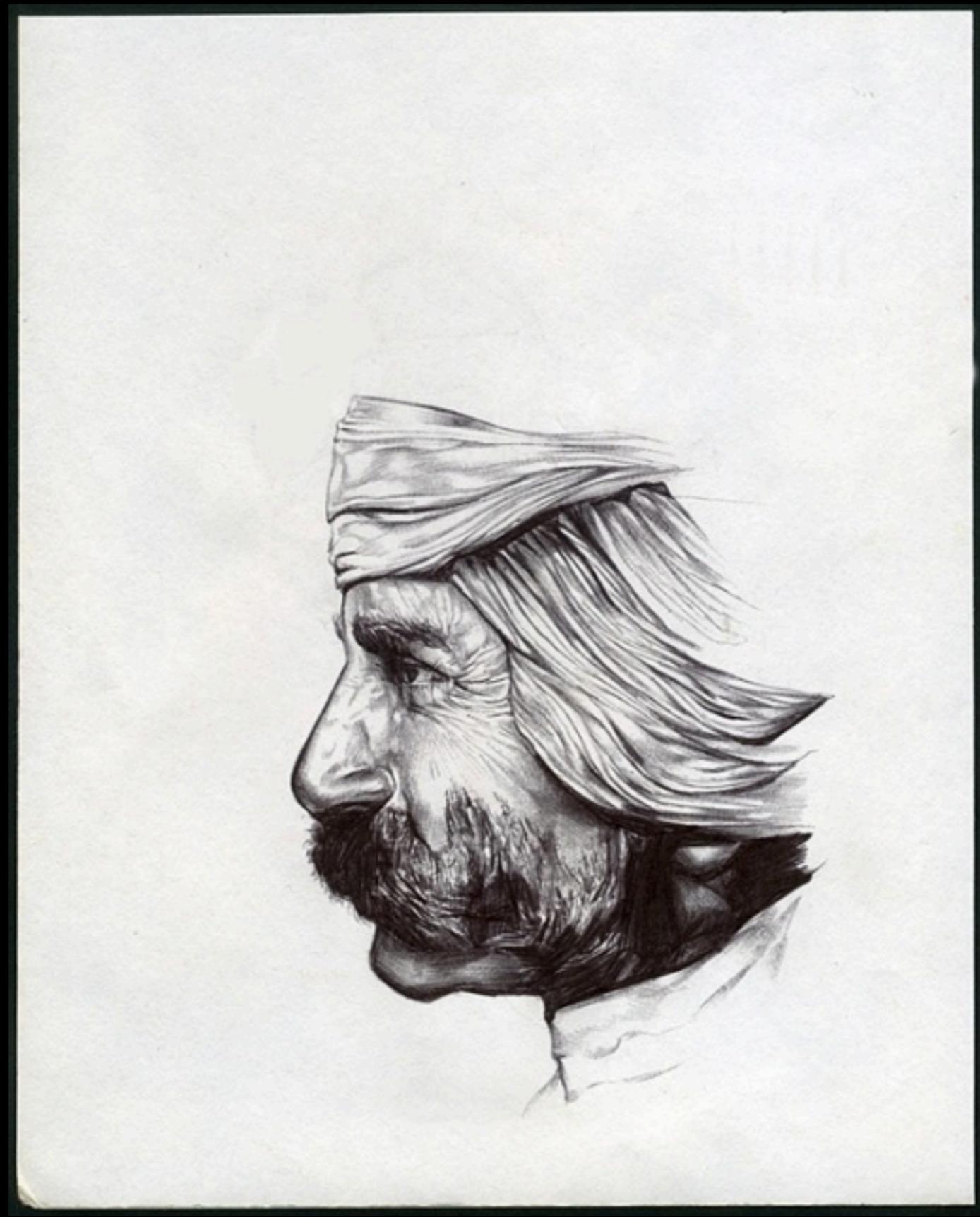


The Art of Journey

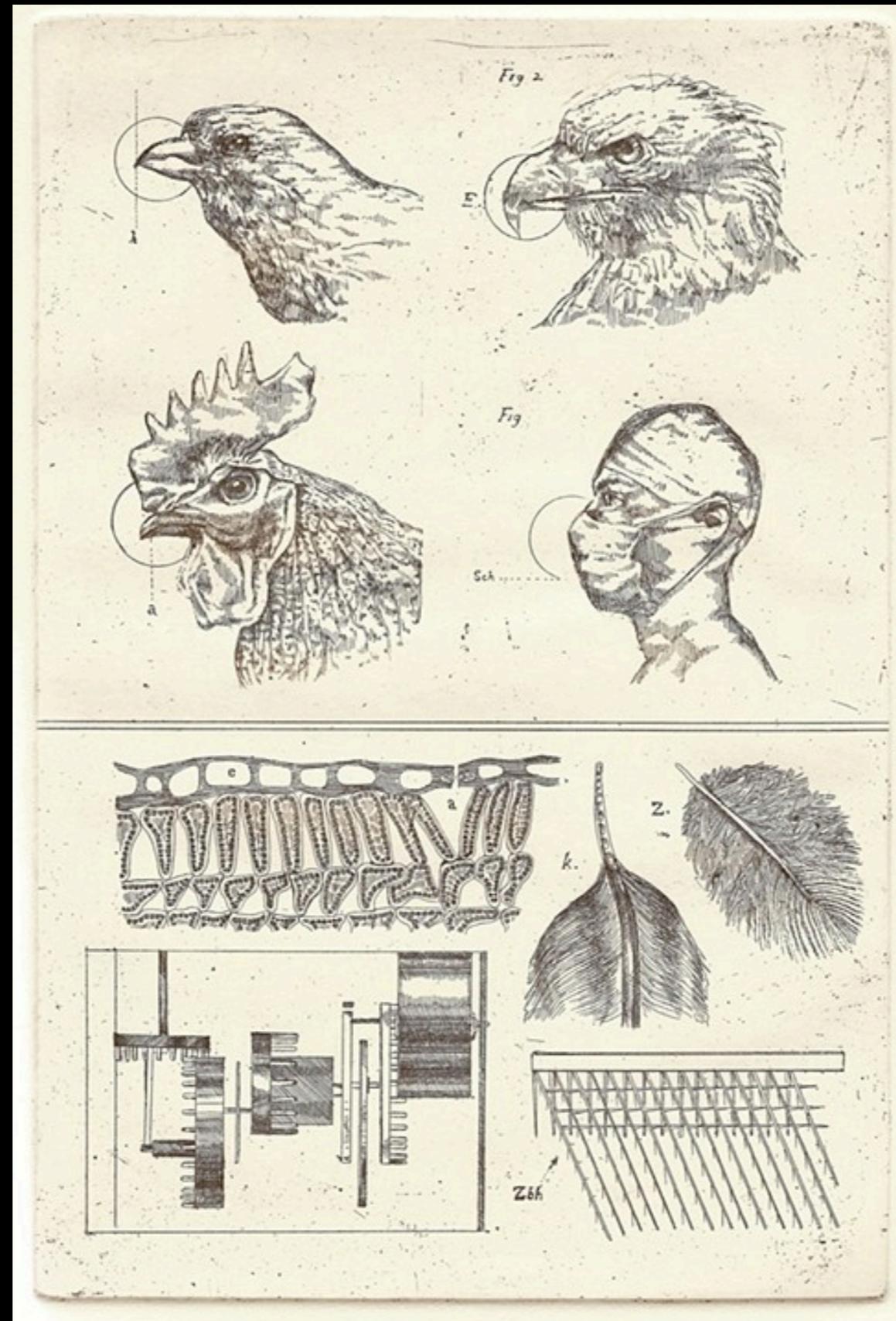
@sarah\_edo

HANDS-FREE  
EXPERIENCES





@sarah\_edo





@sarah\_edo



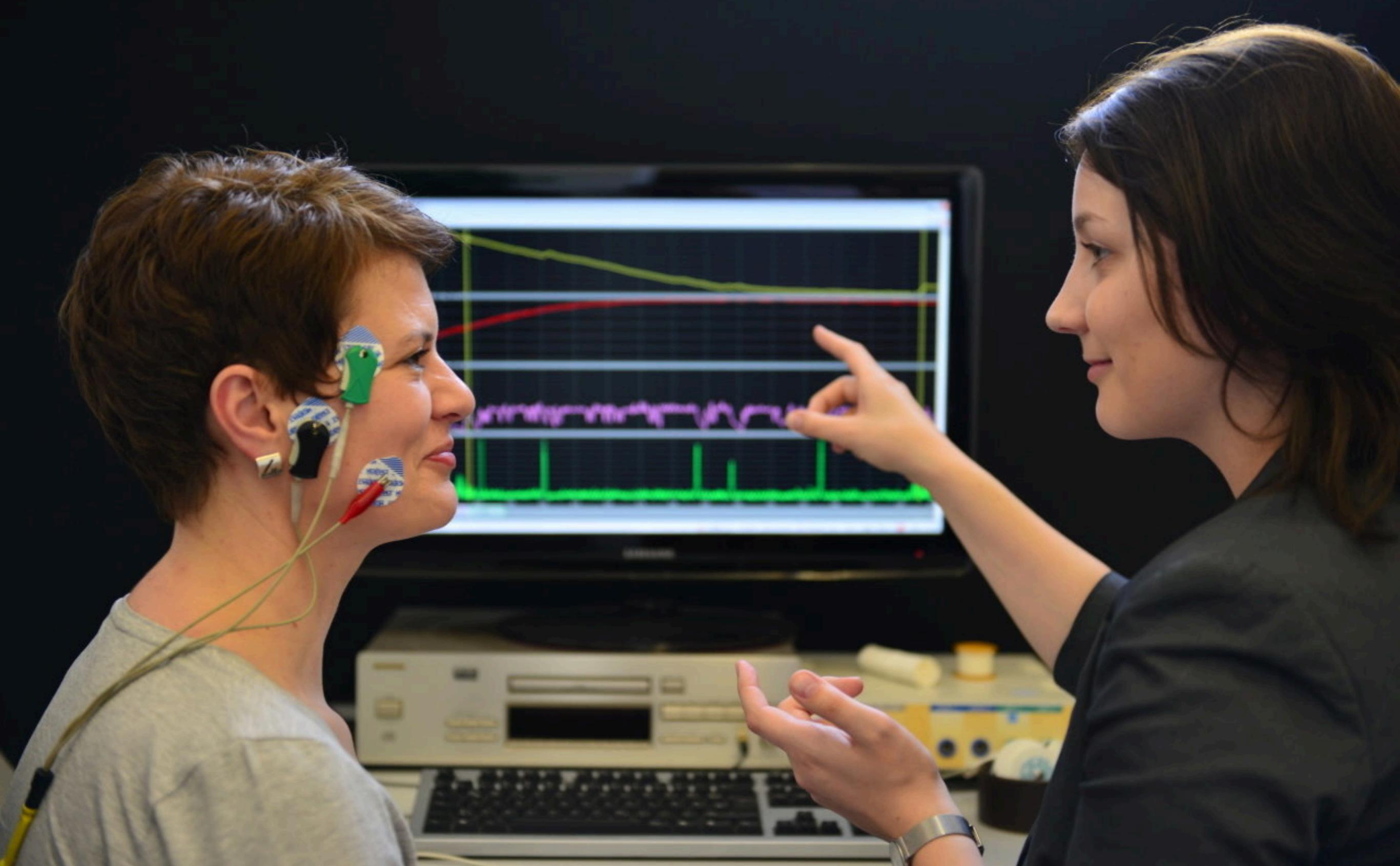
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SLOW DOWN

# BIOFEEDBACK



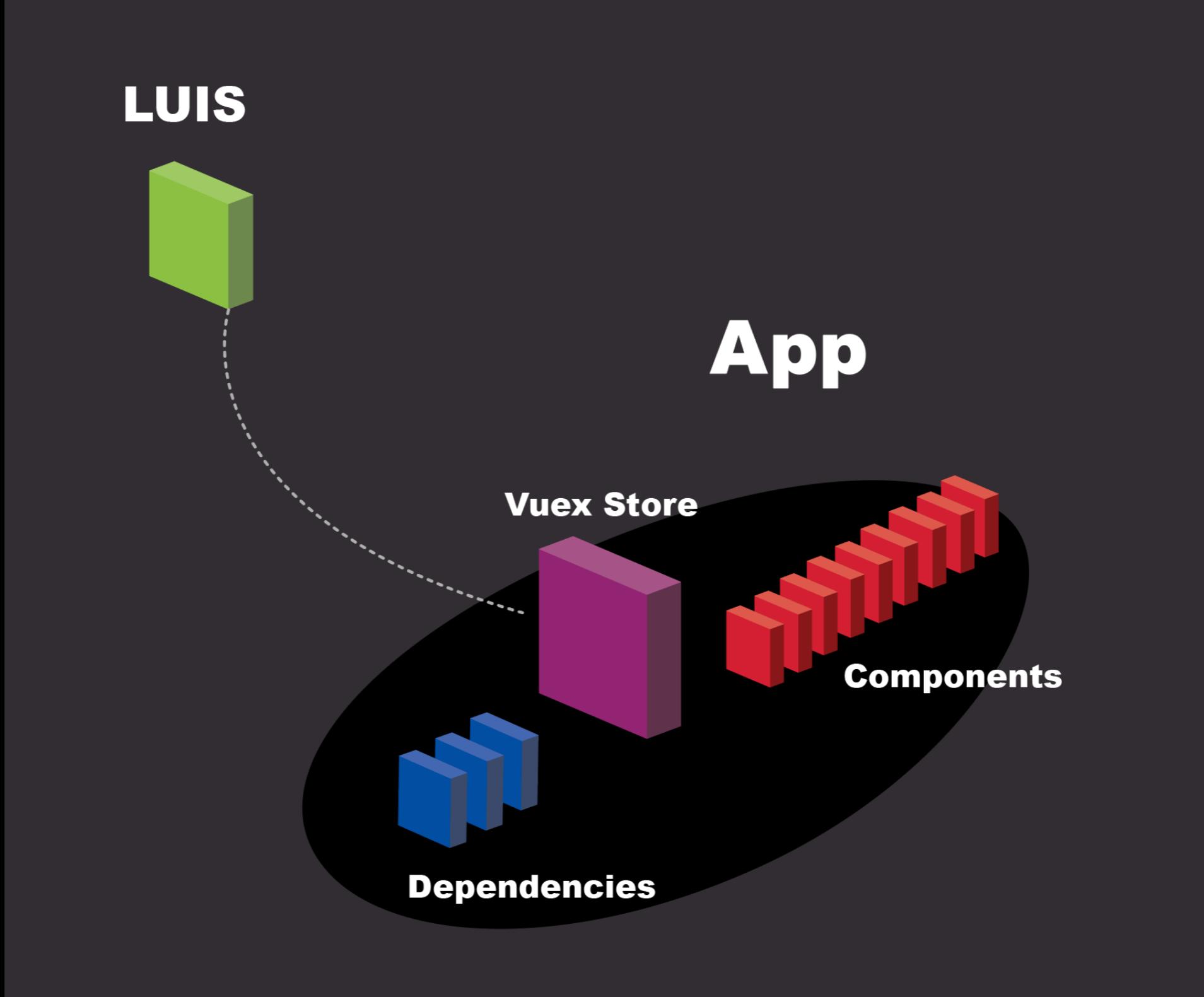
# How do you feel?

Some options...

*excited, nervous, frustrated, happy, calm, tipsy*

Hit the button and start recording





## In store.js (Vuex)

```
export default new Vuex.Store({
  state: {
    counter: 0,
    intent: 'None',
    intensity: 'None',
    score: 0,
    // idle - awaiting user input
    // listening - listening to user input
    // fetching - fetching user data from the API
    uiState: 'idle',
    zoom: 3
  },
  getters: {
    intentStr: state => {
      var str = state.intent
      str = str.replace(/\b(App.)\b/gi, '')
      return str
    },
  }
})
```

## In store.js (Vuex)

```
actions: {
  getSpeech({ dispatch, commit, state }) {
    commit('setUiState', 'listening')

    //keep recording speech all the time or activate it-
    //for the first screen no, press a button. second screen yes.
    state.intent === 'None'
      ? (recognition.continuous = true)
      : (recognition.continuous = false)

    recognition.start()

    recognition.onresult = function(event) {
      const last = event.results.length - 1
      const phrase = event.results[last][0].transcript
      dispatch('getUnderstanding', phrase)
    }
  },
  ...
}
```

## In store.js (Vuex)

```
getUnderstanding({ commit }, utterance) {
  commit('setUiState', 'fetching')
  const url = `https://westus.api.cognitive.microsoft.com/luis/v2.0/apps
/4aba2274-c5df-4b0d-8ff7-57658254d042`  
  
https: axios({
  method: 'get',
  url,
  params: {
    verbose: true,
    timezoneOffset: 0,
    q: utterance
  },
  headers: {
    'Content-Type': 'application/json',
    'Ocp-Apim-Subscription-Key': 'XXXXXXXXXXXXXXXXXXXX'
  }
})
```

sdras-pattern-vp (V sdras-vps) ▾

DASHBOARD

BUILD

PUBLISH

SETTINGS

Train

Test

## ^ App Assets

Intents

Entities

## ^ Improve app performance

Review endpoint utterances

Phrase lists

## Intents ?

Create new intent

Add prebuilt domain intent

Search intents



Name	Utterances	
App.Calm	17	...
App.Excited	11	...
App.Frustrated	21	...
App.Happy	29	...
App.Nervous	18	...
App.Topsy	14	...
Intensity.Less	18	...
Intensity.More	19	...

<input type="checkbox"/> Utterance	Labeled intent ?	
<input type="checkbox"/> calm	App.Calm 0.97 ▾	...
<input type="checkbox"/> even	App.Calm 0.97 ▾	...
<input type="checkbox"/> i am calm	App.Calm 0.99 ▾	...
<input type="checkbox"/> i am even	App.Calm 0.99 ▾	...
<input type="checkbox"/> i am fine	App.Calm 0.73 ▾	...
<input type="checkbox"/> i am placid	App.Calm 0.98 ▾	...
<input type="checkbox"/> i am relaxed	App.Calm 0.99 ▾	...
<input type="checkbox"/> i am untroubled	App.Calm 0.99 ▾	...
<input type="checkbox"/> i am zen	App.Calm 0.99 ▾	...
<input type="checkbox"/> i feel composed	App.Calm 0.98 ▾	...

@sarah\_edo

## In store.js (Vuex)

```
mutations: {  
  newIntent: (state, {intent, score}) => {  
    if (intent.includes('Intensity')) {  
      state.intensity = intent  
      if (intent.includes('More')) {  
        state.counter++  
      } else if (intent.includes('Less')) {  
        state.counter--  
      }  
    } else {  
      state.intent = intent  
    }  
    state.score = score  
  },  
  ...  
}
```

## In Base.vue (Components)

```
createShapes() {
  this.bufferCamera.position.z = this.shapeZoom

  if (this.torusKnot !== null) {
    this.torusKnot.material.dispose()
    this.torusKnot.geometry.dispose()
    this.bufferScene.remove(this.torusKnot)
  }

  var shape = new THREE.TorusKnotGeometry(
    this.tConfig.a,
    this.tConfig.b,
    this.tConfig.c,
    this.tConfig.d
  ),
  material

  ...
  this.torusKnot = new THREE.Mesh(shape, material)
  this.torusKnot.material.needsUpdate = true

  this.bufferScene.add(this.torusKnot)
},
```

## In Base.vue (Components)

```
animate() {
  this.storeRAF = requestAnimationFrame(this.animate)

  this.bufferScene.rotation.x += 0.01
  this.bufferScene.rotation.y += 0.02

  this.renderer.render(
    this.bufferScene,
    this.bufferCamera,
    this.bufferTexture
  )
  this.renderer.render(this.scene, this.camera)
},
```

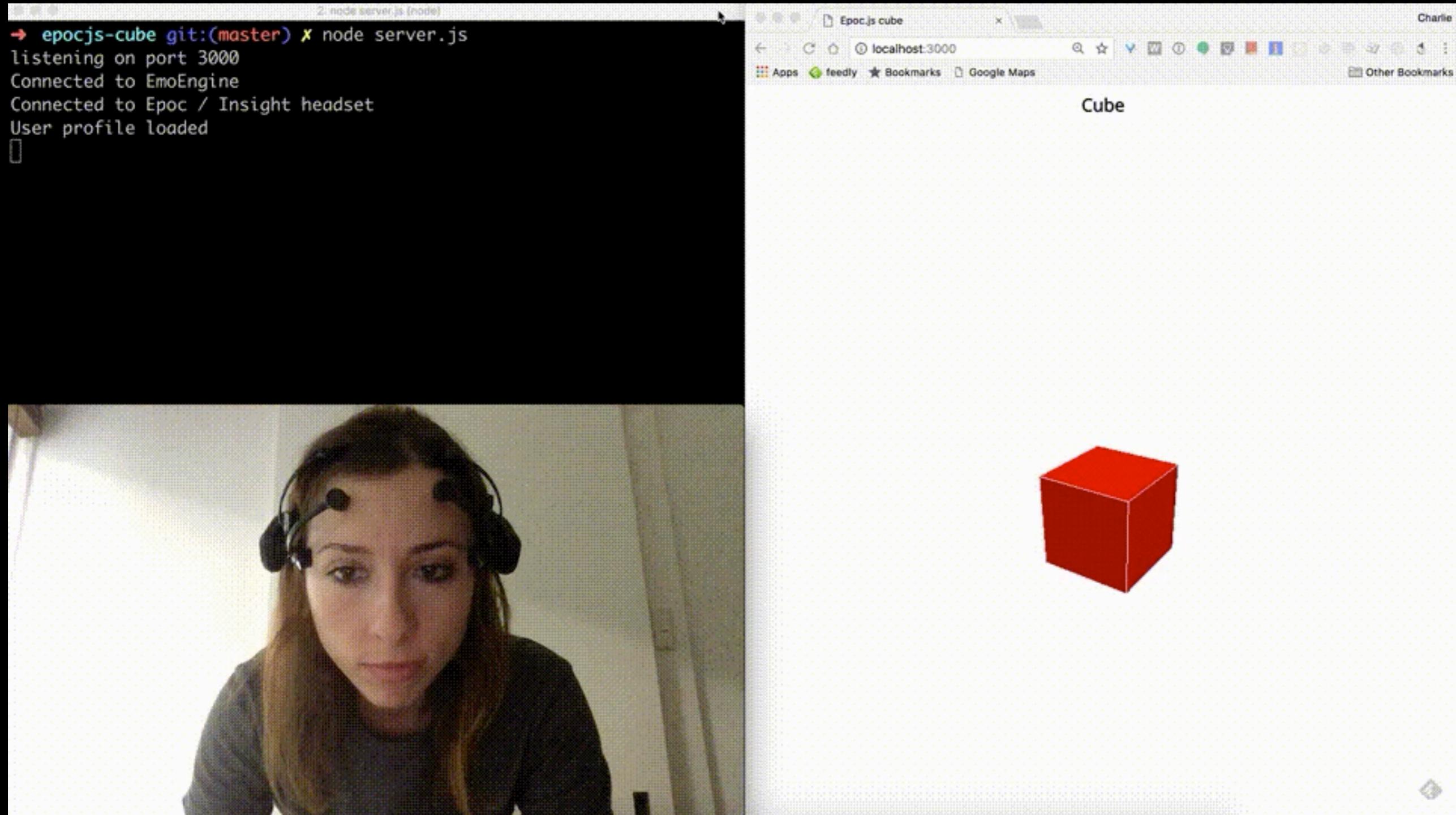
## In Base.vue (Components)

```
watch: {  
  shapeZoom() {  
    this.createShapes()  
    cancelAnimationFrame(this.storeRAF)  
    this.animate()  
  }  
},
```

Repo: [github.com/sdras/three-vue-pattern](https://github.com/sdras/three-vue-pattern)

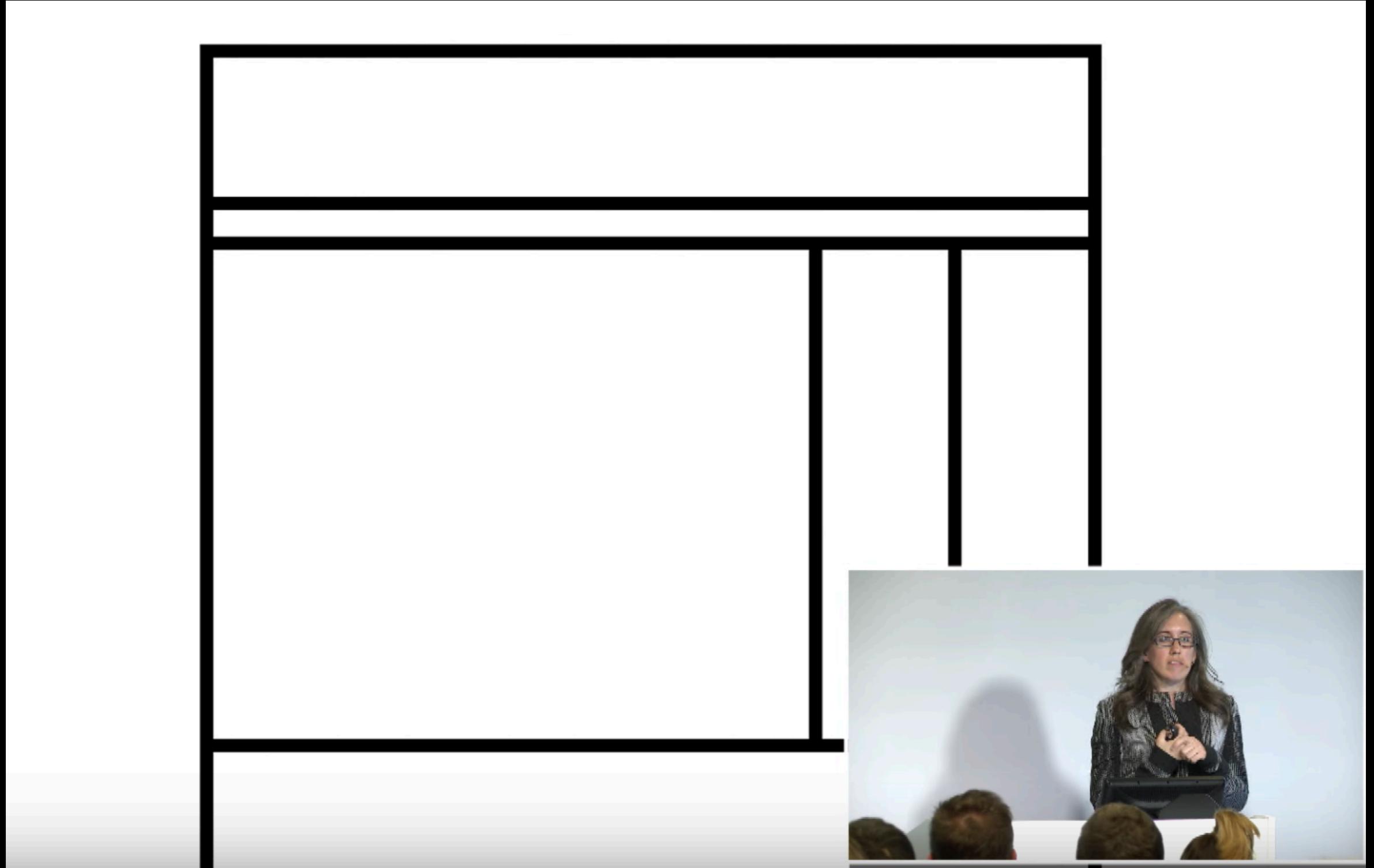


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CHARLIE GERARD, @DEVDEVCHARLIE

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“WE ARE IN A RUT. A RUT SHAPED LIKE THIS”

-Jen Simmons

@sarah\_edo



**Jon Gold**

@jongold

Follow



which one of the two possible websites are you currently designing?





TAKE UP  
SPACE

A goldfish with a vibrant orange and red patterned body is swimming towards the right in a small, round, translucent blue fishbowl. The fishbowl sits on a light-colored sandy surface. In the background, there's a blurred view of the ocean and a clear sky.

THINK  
BIGGER

THANK YOU!

@sarah\_edo