

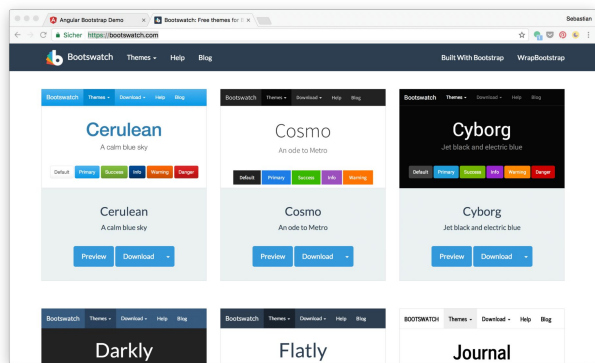
Saját React komponensek

Miklós Bertalan



RisingStack

Npm install?



ID	Avatar	County	Title	First Name	Last Name	Email	Street
Id_0		Gwent	Ms.	Audreanne	Turcotte	Eryn.Blanda@hotmail.com	Volkman Center
Id_1		County Londonderry	Miss	Ida	King	Burdette.Schowalter@hotmail.com	Fritsch Inlet
Id_2		Bedfordshire	Dr.	Brandon	Herman	Alessandra.Predovic13@gmail.com	Luettwitz Crossing
Id_3		Northamptonshire	Dr.	Thurman	Hegmann	Coty62@gmail.com	Gorczany Rapid
Id_4		North Yorkshire	Dr.	Dangelo	Hane	Jayden.Steuber39@hotmail.com	Annamae Village
Id_5		West Yorkshire	Dr.	Jaquelin	Lowe	Stephon_Pagac@yahoo.com	Will Prairie
Id_6		Devon	Mr.	Madie	Denesik	Phoebe62@hotmail.com	Weimann Throughway
Id_7		West Sussex	Dr.	Christa	Jacobson	Grady_Buckridge@yahoo.com	Jonatan Stream
Id_8		Borders	Dr.	Adolphus	Armstrong	Cesar.Larson79@hotmail.com	Kristofer Passage
Id_9		Dorset	Mrs.	Mikayla	Nicolas	Gaylord.Glover0@gmail.com	Feest Lock
Id_10		Gwent	Mrs.	Ruth	Weimann	Retha.Nikolaus@hotmail.com	Tressie Circle



Frequency: minutes (change units)

Enable: ☒

Resource Usage:

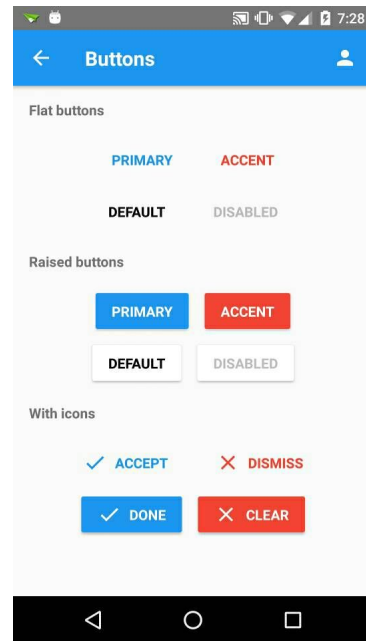
Docker Image:

Frequency: minutes (change units)

Enable: ☒

Resource Usage:

Docker Image:

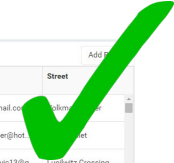
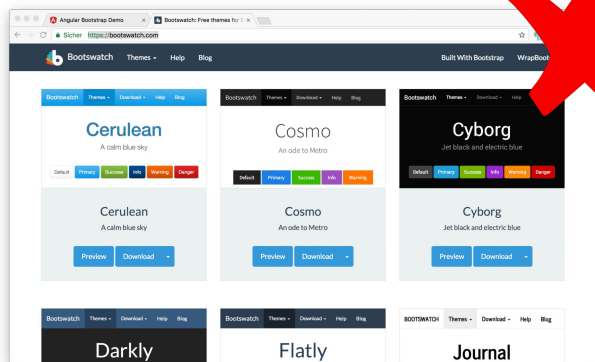


Npm install?

- Mennyire bonyolult?
- Hány helyen használnám?
- Hány módon használnám?
- Mások is használnák?



Npm install?



ID	Avatar	County	Title	First Name	Last Name	Email	Street
Id_0		Gwent	Ms.	Audreanne	Turcotte	Eryn.Blanda@hotmail.com	Wardman Crossing
Id_1		County Londonderry	Miss	Ida	King	Burdette.Schowalter@hotmail.com	Wardman Crossing
Id_2		Bedfordshire	Dr.	Brandon	Herman	Alessandra.Predovic13@gmail.com	Lowaltz Crossing
Id_3		Northamptonshire	Dr.	Thurman	Hegmann	Coty62@gmail.com	Gorczany Rapid
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Frequency: minutes (change units)

Enable: ☒

Resource Usage:

Docker Image:

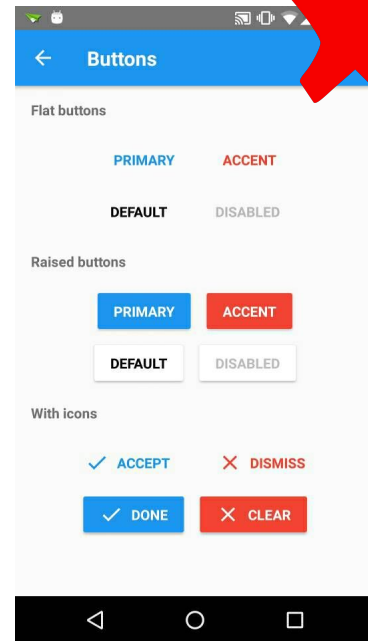


Frequency: minutes (change units)

Enable: ☐

Resource Usage:

Docker Image:



Külső komponensek

- Gyors prototípus ✓
- Sokoldalú ✓
- Megbízható ✓
- Nehezen testreszabható ✗
- Domain specifikus ismeretet igényel ✗
- Olcsó hatást kelt ✗



Saját komponensek

- Testreszabható ✓
- Igényes ✓
- Progresszív ✓
- Időigényes ✗

Kutatás

The screenshot shows a web browser with multiple tabs open, including 'Animate a line', 'backend-play', 'React kompo', 'Carbon', 'React App', 'Inbox (9,545)', 'E bajonettes', and '<input>: The'. The address bar shows the URL 'https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input'. The MDN web docs logo is in the top left, with navigation links for 'Technologies', 'References & Guides', and 'Feedback'. A 'Sign in' button and a search icon are in the top right. The main heading is '<input>: The Input (Form Input) element', with 'Languages', 'Edit', and a settings icon to its right. Below the heading is a navigation bar with links: 'Jump to: Form <input> types', 'Attributes', 'Styling input elements', 'Labels and placeholders', 'Examples', and 'Technical summary'. A secondary navigation bar includes 'Specifications', 'Accessibility concerns', 'Browser compatibility', 'Notes', and 'See also'. On the left, a sidebar lists 'Web technology for developers >', 'HTML: Hypertext Markup Language >', 'HTML elements reference >', and '<input>: The Input (Form Input) element'. The main content area starts with the text: 'The HTML `<input>` element is used to create interactive controls for web-based forms in order to accept data from the user; a wide variety of types of input data and control widgets are available, depending on the device and user agent.' Below this is an 'HTML Demo: <input type="text">' section. It features a 'Reset' button, tabs for 'HTML' and 'CSS', and an 'Output' box. The HTML code is:

```
1 <label for="name">Name (4 to 8 characters):</label>
2
3 <input type="text" id="name" name="name" required>
```

 The 'Output' box displays 'Name (4 to 8 characters):'.



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Testreszabhatóság



```
<Input onChange={this.onChange} onBlur={this.onBlur} className='my-class' />
```



Testreszabhatóság



Input.js

```
import classNames from 'classnames'

className = classNames(className, { customClass })
style = Object.assign(style, customStyle)
```



```
import React, { forwardRef } from 'react'

export default forwardRef(({ label, ...rest }, ref) => (
  <label>
    {label}: <input {...rest} ref={ref} />
  </label>
))
```



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Konzisztencia

```
index.js

import React from 'react'
import ReactDOM from 'react-dom'
import { ThemeProvider } from 'styled-components'

const theme = {
  colors: {
    primary: 'blue',
    accent: 'magenta',
    success: 'green',
    danger: 'red'
  }
}

ReactDOM.render(
  <ThemeProvider theme={theme}>
    <App />
  </ThemeProvider>,
  document.getElementById('root')
)
```

```
Input.js

import React from 'react'
import styled from 'styled-components'

const StyledLabel = styled.label`
  input {
    border-bottom: 1px solid ${({ theme, color }) => theme.colors[color]};
  }
`

const Input = forwardRef(({ label, color, ...rest }, ref) => (
  <StyledLabel color={color}>
    {label}: <input {...rest} />
  </StyledLabel>
))

Input.defaultProps = { color: 'primary' }
```



Újrahasznosítás

```
Search.js

import React, { forwardRef, useState } from 'react'
import Input from './Input'

function Search({ onSearch, ...rest }, ref) {
  const [value, setValue] = useState('')

  const onChange = ev => setValue(ev.target.value)
  const onKeyDown = ev => {
    if (ev.key === 'Enter') onSearch(value)
  }

  return (
    <Input {...rest} ref={ref} value={value}
      onChange={onChange} onKeyDown={onKeyDown} />
  )
}

export default forwardRef(Search)

Search.propTypes = {
  ...Input.propTypes,
  onSearch: PropTypes.func.isRequired
}
```



Újrahasznosítás

```
import React, { forwardRef } from 'react'

export default forwardRef(({ label, ...rest }, ref) => (
  <label>
    {label}: <input {...rest} ref={ref} />
  </label>
))
```



Részletek

- Browser integráció
- Accessibilitás
- Fókusz kezelés
- Mobil nézet
- Helykihasználás



Browser Integráció

- Cursor
- Pseudo állapotok
- Auto focus
- Autocomplete
- Input type / Virtual keyboard
- Element specifikus tulajdonságok



Accessibility

```
Input.js

import React, { useState } from 'react'

export default function CheckBox() {
  const [checked, setChecked] = useState(false)
  const onChange = ev => setChecked(ev.target.checked)

  return (
    <StyledCheckBox checked>
      {checked && <span className="icon">✓</span>}
      <input
        className="native"
        type="checkbox"
        checked={checked}
        onChange={onChange}
      />
    </StyledCheckBox>
  )
}
```

```
Input.js

import styled from 'styled-components'

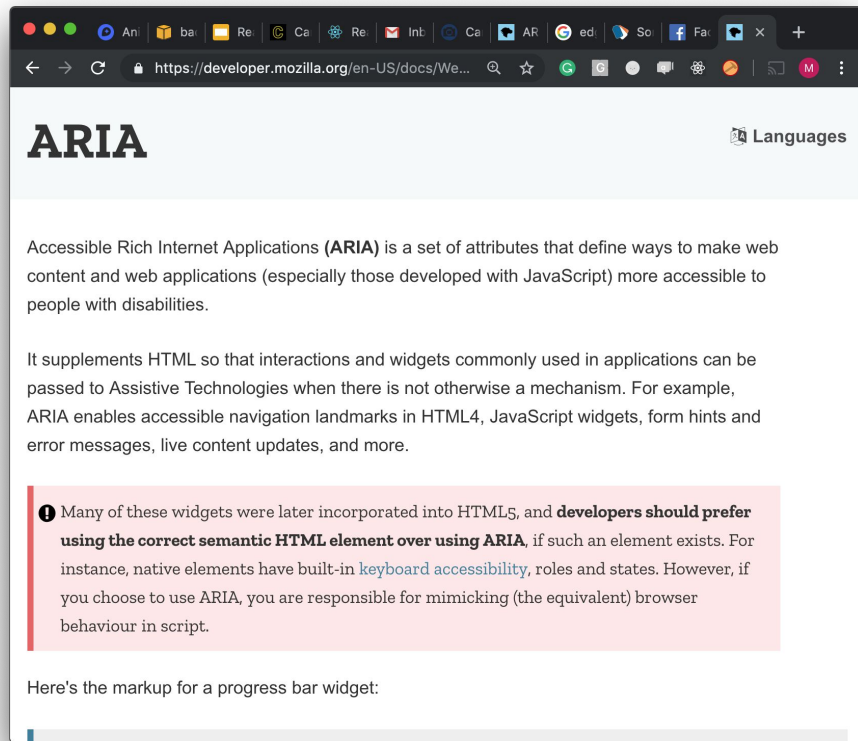
const StyledCheckBox = styled.span`
  display: inline-block;
  border: 1px solid black;
  border-radius: 2px;
  width: 16px;
  height: 16px;
  position: relative;

  input {
    position: absolute;
    opacity: 0;

    .icon {
      position: absolute;
      color: green;
      font-size: 16px;
    }
  }
`
```



Accessibility



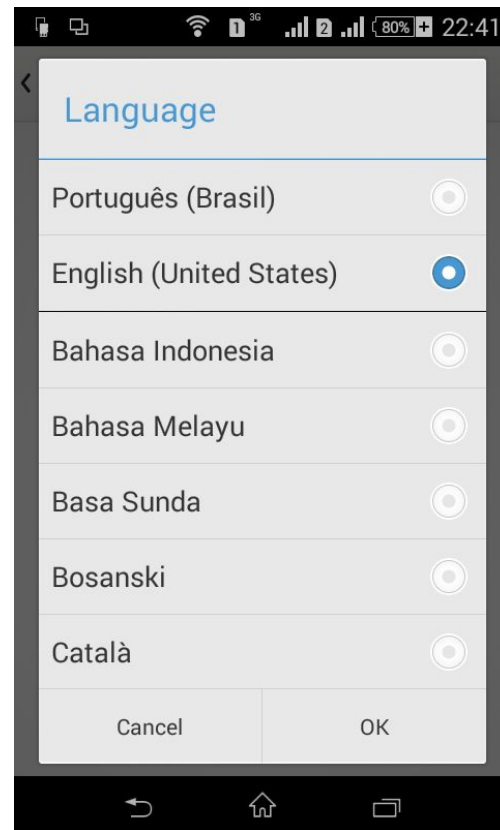
Fókusz kezelés

- onFocus / onBlur
- ev.preventDefault()
- Auto focus
- element.focus()



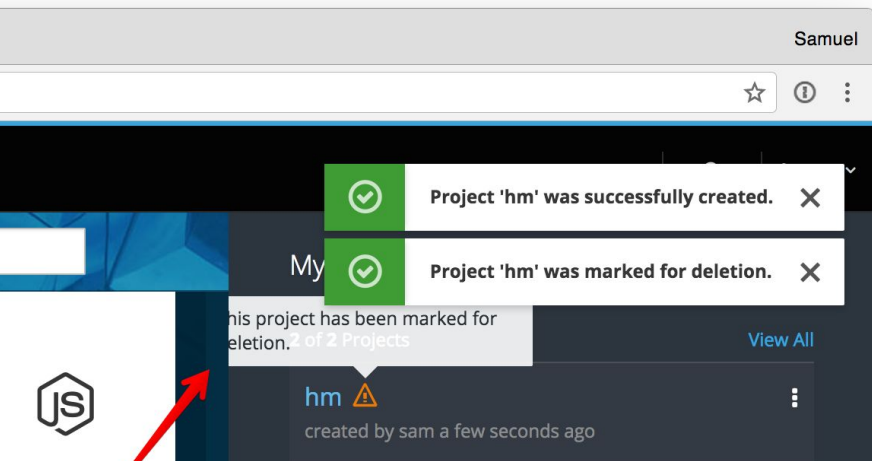
Mobil Nézet

- Ritkán probléma
- Hover vs Touch
- Virtual keyboard
- Animációk
- Helykihasználás



Helykihasználás

- Tradicionális méret váltás layout reflow-t okozhat
- Változó méretek általában absolute / fixed elhelyezésűek



- Portál
- Fixed position
- `ev.clientY` / `ev.clientX`

Köszönöm a figyelmet!



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