



# Using Props



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## Using Props



### Outline

Problem – Not Reusable

Need for 'props'

The Contact Component

How to pass values?

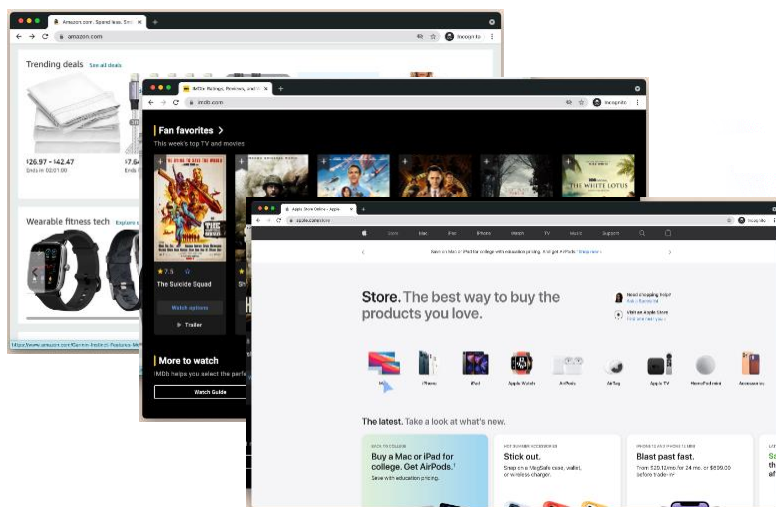
The 'props' Object

Passing Non-String Data

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## Problem – Not Reusable



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## Need for props



- Look into the following **HTML** and **JS** codes

```

1  <html>
2    <head></head>
3    <body>
4      <a>This is a link</a>
5      <img />
6      <input />
7    </body>
8  </html>

```

```

1  function addTwoNumbersTogether() {
2    |    return 1 + 2
3  }

```

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## Need for props



- Look into the following **HTML** and **JS** code

```

1  <html>
2    <head></head>
3    <body>
4      <a href="https://google.com">This is a link</a>
5      <img src="" />
6      <input />
7    </body>
8  </html>

```

```

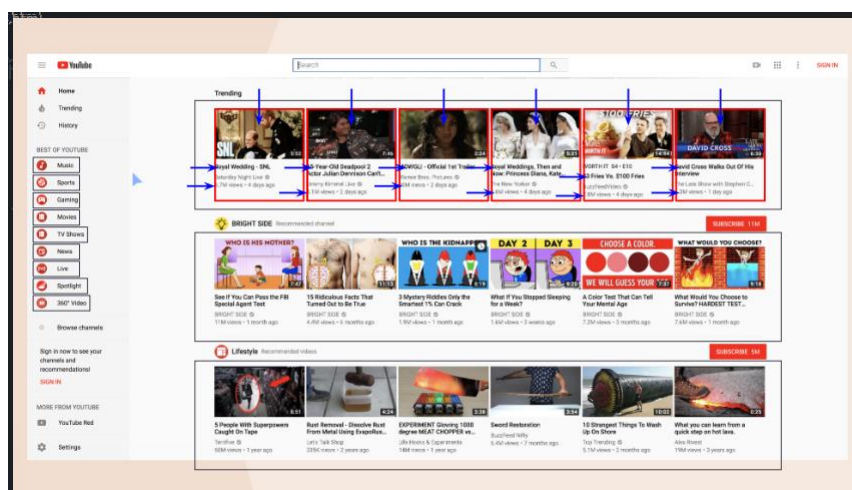
1  function addTwoNumbersTogether(a, b) {
2    return a + b
3  }

```

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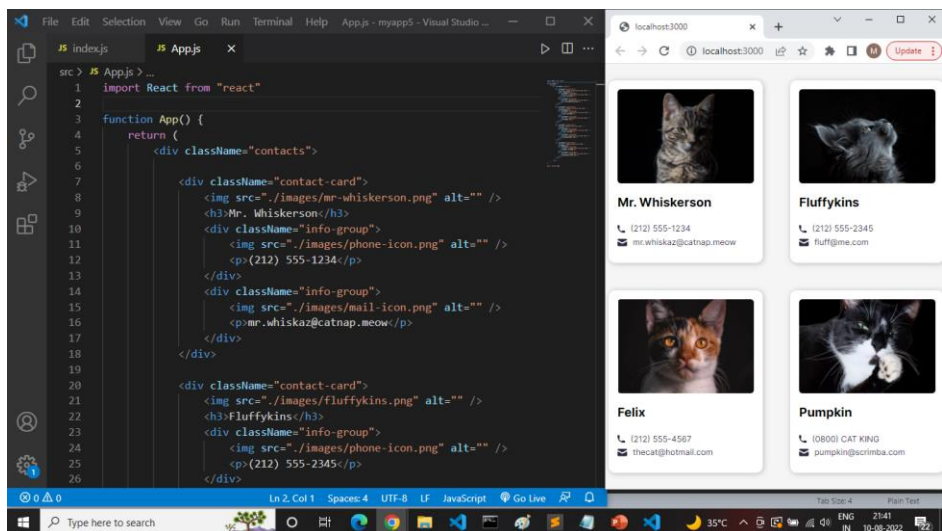
## Reusable Components



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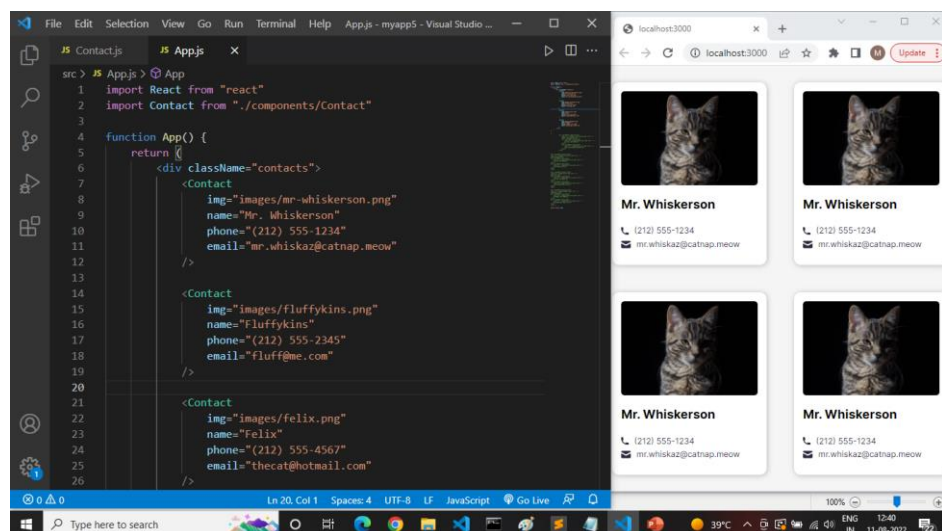
## Contact Components



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## How to pass values?

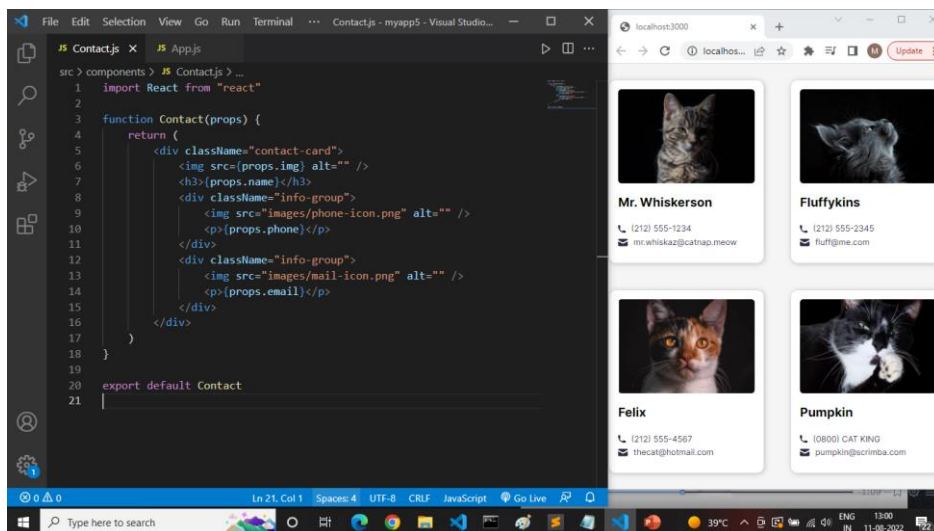


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## The props Object



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## Contact Components

- **Contact Component** is a React component which accepts a single **props** object argument (with data) and returns a React element.
- Understanding **props** is the **most crucial** thing in React
- You will use **props** every single day of your React life
- It is a common practice of **destructuring props**

```
function Contact({img,name,phone}) {
  :
  :
}
```

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## ■ Passing Non-string data

- We can pass **any type of data** to a React component
- Ensure the data is enclosed between `{ }`

```
function App() {
  return (
    <div>
      <Joke
        setup="I got my daughter a fridge for her birthday."
        punchline="I can't wait to see her face light up when she opens it."
        isPun={true}
        upvotes={10}
        downvotes={2}
        comments={[{author: "Mukthar", body: "Awesome", title: "Non-string data"}]}
      />
      <Joke
        setup="What's the best thing about Switzerland?"
        punchline="I don't know, but the flag is a big plus!"
        isPun={false}
        upvotes={10000}
        downvotes={25}
        comments={[{author: "Omar", body: "That's cool...", title: "Switz"}]}
      />
    </div>
  )
}
```

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## ■ Passing Non-string data

- We can pass **any type of data** to a React component
- Ensure the data is enclosed between `{ }`

```
function Joke(props) {
  console.log(props)

  return (
    <div>
      {props.setup} && <h3>Setup: {props.setup}</h3>
      <p>Punchline: {props.punchline}</p>
      <hr />
    </div>
  )
}
```

```
CONSOLE
{setup: "I got my daughter a fridge for her birthday.", punchline: "I can't wait to see her face light up when she opens it.", isPun: true, upvotes: 10, downvotes: 2, comments: [{author: "Mukthar", body: "Awesome", title: "Non-string data"}]}
{setup: "What's the best thing about Switzerland?", punchline: "I don't know, but the flag is a big plus!", isPun: false, upvotes: 10000, downvotes: 25, comments: [{author: "Omar", body: "That's cool...", title: "Switz"}]}
```

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## airbnb – Card component



The screenshot shows a VS Code editor with the following code in `App.js`:

```

1 import React from "react"
2 import Navbar from "../components/Navbar"
3 import Hero from "../components/Hero"
4 import Card from "../components/Card"
5 // <Hero />
6 function App() {
7   return (
8     <div>
9       <Navbar />
10      <Card
11        img="images/katie-zaferes.png"
12        rating="5.0"
13        reviewCount={6}
14        country="USA"
15        title="Life Lessons with Katie Zaferes"
16        price={136}
17      />
18    </div>
19  )
20 }
21
22 export default App
23

```

The browser preview on the right shows the rendered output: an Airbnb-style card for "Katie Zaferes" with a 5.0 rating, 6 reviews, and a price of \$136 per person.

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## airbnb – Card component



The screenshot shows a VS Code editor with the following code in `Card.js`:

```

1 import React from "react"
2
3 function Card(props) {
4   return (
5     <div className="card">
6       <img src={props.img} alt="" className="card--image" />
7       <div className="card--stats">
8         
9         <span>{props.rating}</span>
10        <span className="gray">{props.reviewCount}</span>
11        <span className="gray">{props.country}</span>
12      </div>
13      <p>{props.title}</p>
14      <p><span className="bold">From ${props.price}</span> / pe</p>
15    </div>
16  )
17 }
18
19 export default Card
20

```

The browser preview on the right shows the rendered output: an Airbnb-style card for "Katie Zaferes" with a 5.0 rating, 6 reviews, and a price of \$136 per person.

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QUIZ!

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