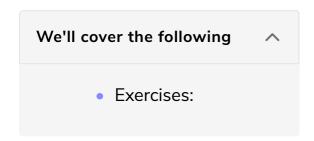# React Component Composition

Learn how React feature allows to compose React components into each other.

Now we'll discover how to use a React element in the same fashion as an HTML element, with an opening and closing tag:

```
const App = () => {
  ...

  return (
    <div>
      <h1>My Hacker Stories</h1>

      <InputWithLabel
        id="search"
        value={searchTerm}
        onInputChange={handleSearch}

      >
        Search
      </InputWithLabel>

      ...
    </div>
  );
};
```

src/App.js

Instead of using the `label` prop from before, we inserted the text "Search:" between the component's element's tags. In the InputWithLabel component, you have access to this information via **React's children** prop. Instead of using the `label` prop, use the children prop to render everything that has been passed down from above where you want it:

```
const InputWithLabel = ({
  id,
  value,
  type = 'text',
  onInputChange,
```

```
  children,

}) => (
  <>

    <label htmlFor={id}>{children}</label>

     
    <input
      id={id}
      type={type}
      value={value}
      onChange={onInputChange}
    />
  </>
);
```

Now the React component's elements behave similar to native HTML. Everything that's passed between a component's elements can be accessed as children in the component and be rendered somewhere. Sometimes when using a React component, you want to have more freedom from the outside what to render in the inside of a component:

```
const App = () => {
  ...

  return (
    <div>
      <h1>My Hacker Stories</h1>

      <InputWithLabel
        id="search"
        value={searchTerm}
        onInputChange={handleSearch}
      >

        <strong>Search:</strong>

      </InputWithLabel>

      ...
    </div>
  );
};
```

With this React feature, we can compose React components into each other. We've used it with a JavaScript string and with a string wrapped in an HTML `<strong>` element, but it doesn't end here. You can pass components via React children as

well.

```
               ã        F                )           9   5    @@      °    n    PNG

   IHDR               (-  S     äPLTE"""""""""""""""""2PX=r  )7;*:>H  ¤-BGE  8do5Xb6[eK  ®K ¯1MU9gs3S

   IHDR               ×©ÍÊ    ePLTE""""""""""""""""""""""2RZN¢¹J  «3R[J  ¬)59YÁÞ0KS4W`Q«ÄL  ²%+-0JR
?^q÷ñíÛ  ï.},  ìsæÝ_TttÔ¾  1#  /(ì  -[   è`  è`Ì  ÚïÅðZ  d5    ?ÎebZ¿Þ  i.Ûæ    ìqÎ  +1°  }Â  5ù   ïçd

   IHDR             D¤  Æ   APLTE     """"""""""""""""""""""""2RZVºÖ_ÔôU·Ñ=r  $()'25]ÎíC    0LS<o}

   IHDR    @    @     ·ì    :PLTE      """"""""""""""""""""""""""""""""""""""""""""""""
¢ßqÇ8Ù  ´ mKË±mÆ¶mÛü·yi!è  ÎªYÏuë ÀÏ_Àï?i÷ ý+ò    ÄA  |  ù{    ´?¿  _En  ).  JËD¤<
©¬¢Z\Ts©R*  (     ¯©  J     u  X/  4J  9  ¡5·DEµ4kÇ4  &i¥V4Ú  ¡®Ð    ¯ vsf:àg,  ¢èBC»î$¶  ºÍùî    á  @  ôI_
-ê>Û  º«¢XÕ¢î}ß¨ëÛÑ;  ÃöN´  ØvÅý  Î¸ÿ1   ë×ÄO@&v/Äþ_  ö\ô  Ç\í.    ½+0    ;      !  fÊ  ¦´Ó%Â JY·O  Â  '/Å]_
```

Exercises:

- Confirm the [changes from the last section](#).
- Read more about React Component Composition ([[0]](#), [[1]](#)).
- Create a simple text component that renders a string and passes it as `children` to the InputWithLabel component.