

49-3 Components and how props works, unidirectional data flow

Your First Component

You will learn

- What a component is
- What role components play in a React application
- How to write your first React component

Components: UI building blocks

```
<article>
```

```
  <h1>My First Component</h1>
```

```
  <ol>
```

```
    <li>Components: UI Building Blocks</li>
```

```
    <li>Defining a Component</li>
```

```
    <li>Using a Component</li>
```

```
  </ol>
```

```
</article>
```

Defining a component

```
export default function Profile() {  
  return (  
      
  )  
}
```

Step 1: Export the component

The export default prefix is a standard JavaScript syntax (not specific to React). It lets you mark the main function in a file so that you can later import it from other files. (More on importing in Importing and Exporting Components!)

Step 2: Define the function

With `function Profile() { }` you define a JavaScript function with the name `Profile`.

Step 3: Add markup

```
return (  
    <div>  
          
    </div>  
);
```

Using a component

```
function Profile() {  
  return (  
      
  );  
}
```

```
export default function Gallery() {  
  return (  
    <section>  
      <h1>Amazing scientists</h1>  
      <Profile />  
      <Profile />  
      <Profile />  
    </section>  
  );  
}
```


What the browser sees

```
<section>
```

```
  <h1>Amazing scientists</h1>
```

```
  
```

```
  
```

```
  
```

```
</section>
```