

A Static **Card** in React Bootstrap

Phillip G. Bradford*

March 17, 2025

Abstract

The Card component in React bootstrap is a simple UI component. We will implement Cards using *React hooks*. Card components play an important role for our block explorer.

1 Basic Card component

To create a basic Card component, do the next steps.

1. `npx create-react-app card-example-static`
2. `cd card-example-static`

```
1  import React from 'react';
2  import './App.css';
3  import BlockCard from './components/BlockCard';
4
5  export default function App() {
6    return (
7      <div className="App">
8        <header className="App-header">
9          <BlockCard />
10       </header>
11     </div>
12   );
13 }
```

Listing 1: Update app.js in the *src* folder

*phillip.bradford@uconn.edu, phillip.g.bradford@gmail.com, UNIVERSITY OF CONNECTICUT, DEPARTMENT OF COMPUTING, STAMFORD, CT USA

3. `npm install react bootstrap react-bootstrap`
4. Replace the code in `App.js` in the `src` directory with the code in Listing 1.

Next we generate the component `<BlockCard />`.

1. Create a subdirectory `components` of the `src` directory.
2. Create a file `BlockCard.js` in the `src/components` directory.
3. Put the content of Listing 2 in `BlockCard.js`.

This code will host a *BlockCard* in *App.js* on line 7. Specifically, Add `<BlockCard />` between `<header className="App-header">` and `</header>`

This card is static. It does not leverage *React hooks*.

Update <BlockCard /> with properties such as *height*="888217", *hash*="0000000000000000000000008567ffc2eb86897fd8db31b2dd0b71db42684178a0dd", etc.

In Listing 1, the basic updated version is,

```
<BlockCard height="99934"
  hash="00000-----00008567ffc2eb86897fd8db31b2dd0b71db42684178a0dd"
/>
```

```

1  import Card from 'react-bootstrap/Card';
2  import "bootstrap/dist/css/bootstrap.min.css";
3
4  export default function BlockCard(
5      {
6          hash,
7          height,
8          block_time_iso,
9          burn_block_hash,
10         burn_block_height }
11  ) {
12
13      return (
14          <Card className="border border-white text-start p-3"
15              style={{ width: '30rem' }}>
16              <Card.Body>
17                  <Card.Text>
18                      <p class="text-start">{hash}</p>
19                      <p class="text-start">{height}</p>
20                      <p class="text-start">{block_time_iso}</p>
21                      <p class="text-start">{burn_block_hash}</p>
22                      <p class="text-start">{burn_block_height}</p>
23                  </Card.Text>
24              </Card.Body>
25          </Card>
26      );
27  }

```

Listing 2: Basic Static Card from React-bootstrap

Listing 2 shows a basic *Card* from React-bootstrap. This listing should be replaced with the code for *GetLastBurnBlock.js* in `src/components/coreUtilities`.

References

- [1] Ryan J. Blake: *Mastering Bootstrap 5*, Beginners Handbook, 2024.
- [2] React Bootstrap: *React Bootstrap Cards*,
<https://react-bootstrap.netlify.app/docs/components/cards/> , Accessed: 2025-03-15.