

DIFFERENCE BETWEEN THE REAL DOM AND VIRTUAL DOM?

Real DOM

1. Directly **updates** and **manipulates** HTML.
2. Create a new DOM/full **repaint** if it is updated.
3. An **object-based** representation of an HTML document + an interface for **manipulating** that object.

Virtual DOM

1. Can't directly **updates**
2. Acts as a copy of the **real DOM**, which can be frequently manipulated and updated without a **page refresh**
3. More of a pattern than a specific technology
4. **Synced** with the real DOM with 'react-dom'

Key Difference

The key difference is "Diffing"

Whenever there is a **change** in the state of the UI elements, a new **virtual DOM** is created. Then the new virtual DOM and the **previous virtual DOM** are compared with each other. This comparing is called **DOM Diffing**.

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