The reconciliation process makes React work faster. Reconciliation is **the process through which React updates the Browser DOM**.

React uses **diffing** algorithm to find if it needs to update. It has complexity of O(n). On every update tree of elements will be replaced, some generic algorithms use O(n^3). Why React **diffing** algorithm is so fast? Because it relies on 2 things:

* Two elements of different types will produce different trees.
* The developer can hint at which child elements may be stable across different renders with a **key** prop.

