

浅谈virtual dom

什么是virtual dom

模拟DOM树的轻量级javascript对象

使用virtual dom的前端类库:



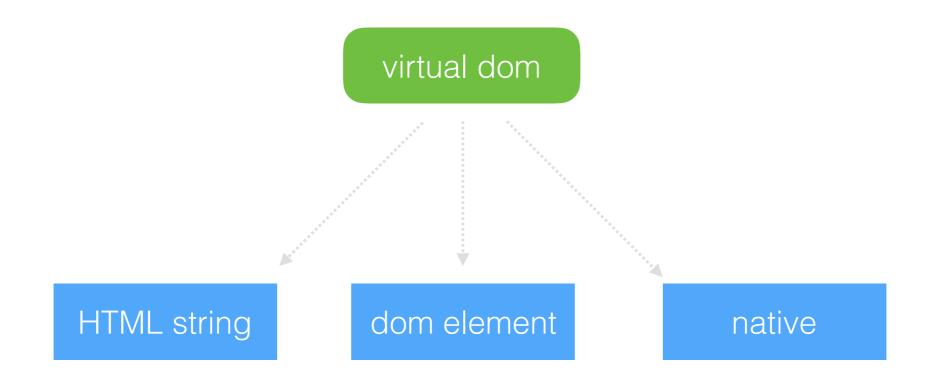
React





why virtual dom

- dom 操作慢, javascript 快
- · 跨平台,通过不同的渲染引擎生成不同平台下的UI



virtual dom实现

- 用js对象映射dom树
- · 数据改变时,对virtual dom树进行比较,获取差异
- · 将差异渲染到dom树上

virtual dom实现 一 映射dom树

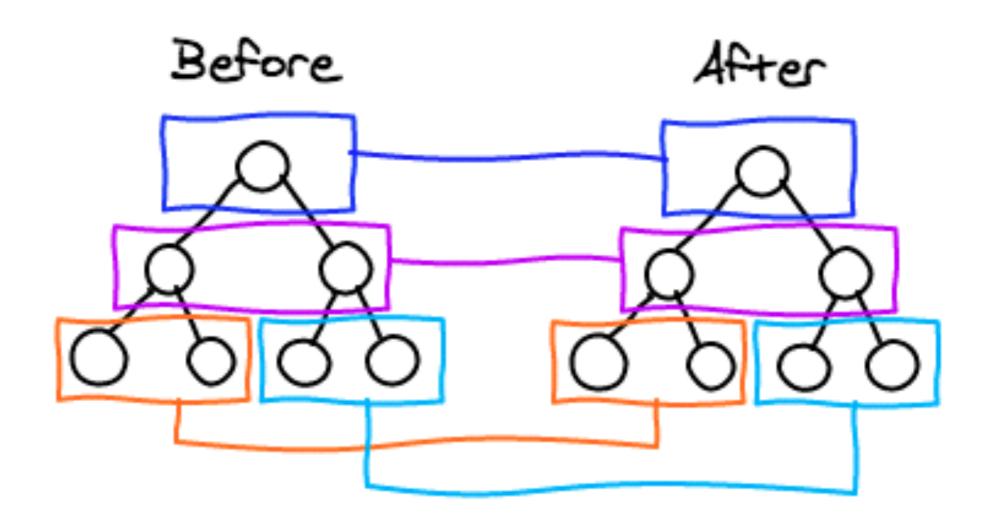
```
    Item 1
    Item 2
    Item 3
```



```
{
  tagName: 'ul',
  props: {
    id: 'list'
  },
  children: [
    { tagName: 'li', props: {class: 'item'}, children: ["Item 1"] },
    { tagName: 'li', props: {class: 'item'}, children: ["Item 2"] },
    { tagName: 'li', props: {class: 'item'}, children: ["Item 3"] }
  }
}
```

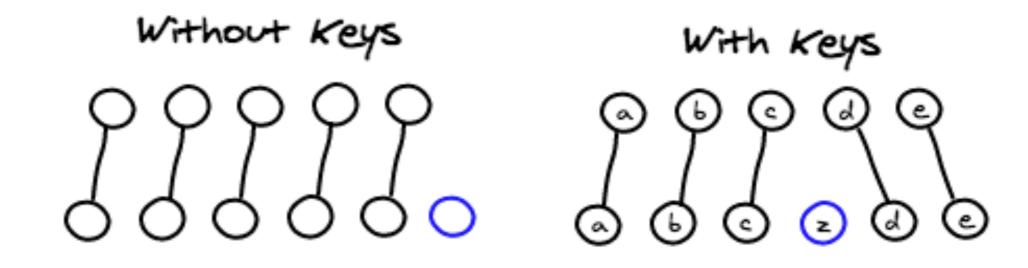
virtual dom实现 — diff (以react为例)

•tree比较



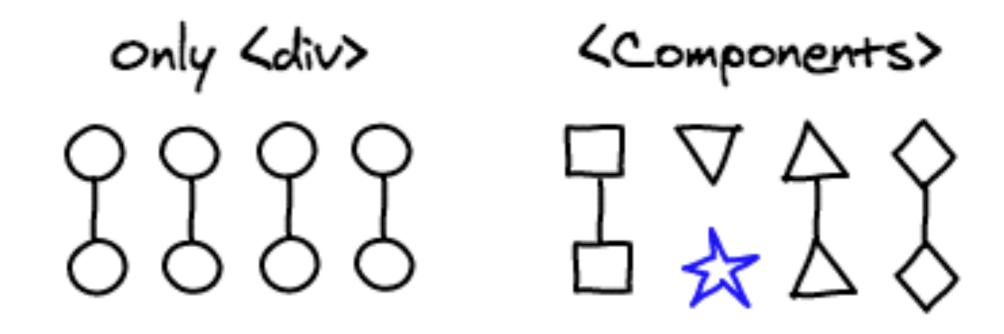
virtual dom实现 — diff

• 列表比较

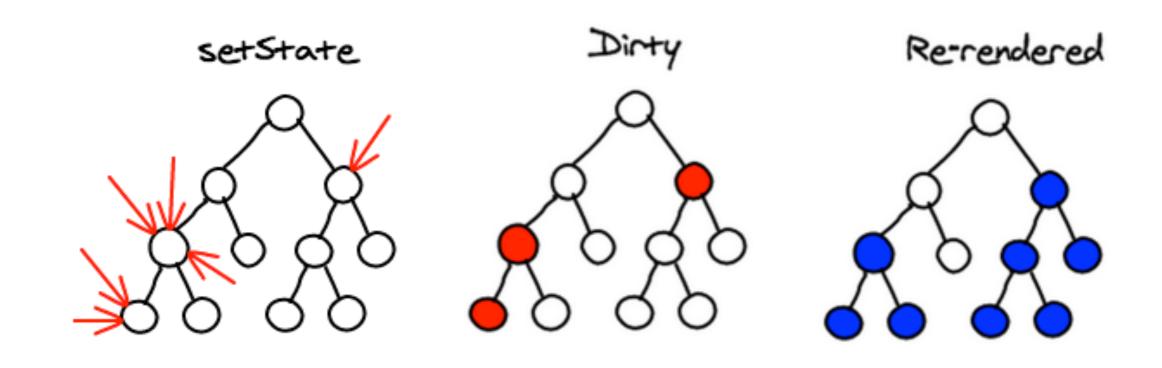


virtual dom实现 - 差异比较

• Components比较



virtual dom实现 - 渲染dom树



THANKS FOR YOUR WATCHING