REACT / 1

- React 简介
- JSX
- 组件
- 事件
- State
- 生命周期

REACT简介

- 高性能
- 声明式
- 组件化
- 跨平台

MVVM

- 双向绑定
- 直接操作 DOM

虚拟DOM

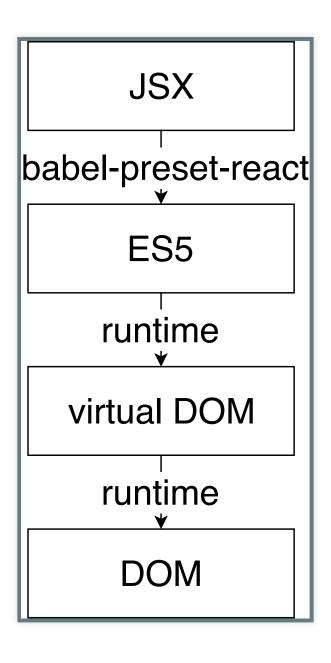
- 单向数据流
- 批量更新 DOM

<CommentList comments={comments} />

```
<!DOCTYPE HTML>
<html>
<head>React Hello World</head>
<body>
<div id="root"></div>
<script src="https://static.meituan.net/bs/react/16/umd/react.pro"</pre>
<script src="https://static.meituan.net/bs/react-dom/16/umd/react">
<script>
 ReactDOM.render(
    React.createElement('h1', null, 'Hello, world!'),
    document.getElementById('root'),
</script>
</body>
</html>
```

JSX

const element = Hello, world!;



ES5

```
const element = React.createElement(
   'p',
   {
     className: 'comment',
   },
   'Hello, world!'
);
```

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import React from 'react';

虚拟DOM

```
const element = {
  type: 'p',
  props: {
    className: 'comment',
    children: 'Hello, world',
  },
};
```

使用变量

```
const element = {`This is a comment: ${comment}`};
const element = This is a comment: {comment};
```

使用属性 (PROPS)

```
const element = <img src={avatarURL} className={'avatar'} />;
const element = <img src={avatarURL} className="avatar" />;
```

```
const element = <button disabled={true}>提交</button>;
const element = <button disabled>提交</button>;
```

```
const element = <img src={avatarURL} className="avatar" />;
const element = <img src={avatarURL} style={{ display: 'block' }}</pre>
```

嵌套

例子

列表和 KEY

```
const commentElements = comments.map(({ id, comment }) => {
  return {comment}
});

const element = {commentElements};
```

例子

有条件的渲染

```
// ok
const element = commentData.isBlocked ? null : <Comment />;

// better
const element = commentData.isBlocked || <Comment />;
```

- false
- null
- undefined
- true

至标签

写成 < Tag /> 而不是 < Tag >< / Tag >

注释

const element = <div>{/* This is a comment */}</div>;

HTML 转义

组件

自定义组件

- 函数式组件
- 类声明组件

必数式组件

类声明组件

```
class Comment extends Component {
  state = {
    clicked: false,
  };

render() {
  const { comment } = this.props;
  return {comment} ;
  }
}
```

V0.14版本之前

```
const Comment = React.createClass({
  render() {
    const { comment } = this.props;
    return {comment};
  }
});
```

动态的组件类

开儿

```
const getCommentType = (commentData) => {
  if (commentData.isVIP) {
    return VIPComment;
  }
  return Comment;
};

const CommentType = getCommentType(commentData);

const element = <CommentType comment />;
```

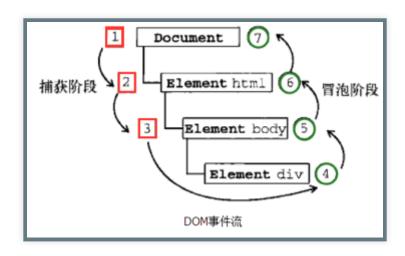
例子

事件

React 基于虚拟 DOM 实现了合成事件

事件模型

- 事件冒泡
- 事件委托



绑定方式

```
const handleClick = (e) => {
   // 浏览器标准事件
};
<button onClick={handleClick}>提交</button>;
```

THIS的指向

```
class Submit extends Component {
  isSubmitting = false;

  handleClick(event) {
    // throws TypeError: Cannot read property 'isSubmitting' of n
    console.log(this.isSubmitting);
  }

render() {
  return <button onClick={this.handleClick}>提交</button>;
  }
}
```

```
class Submit extends Component {
  isSubmitting = false;
 constructor(props) {
    super(props);
   this.handleClick = this.handleClick.bind(this);
 handleClick() {
    console.log(this.isSubmitting);
 render() {
    return <button onClick={this.handleClick}>提交</button>;
```

例子

STATE

• 定义 State

```
class Submit extends Component {
  state = {
    isSubmitting: false,
  };

render() {
  const { isSubmitting } = this.state;
  return <button disabled={isSubmitting}>提交</button>;
  }
}
```

```
class Submit extends Component {
  constructor(props) {
    super(props);
    this.state = {
      isSubmitting: props.isSubmitting,
    };
  }
  render() {
    const { isSubmitting } = this.state;
    return <button disabled={isSubmitting}>submit</button>;
  }
}
```

例子

1多C文 STATE

```
// never do this
this.state = newState;

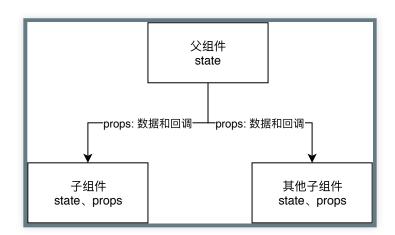
this.setState(newState);
```

例子

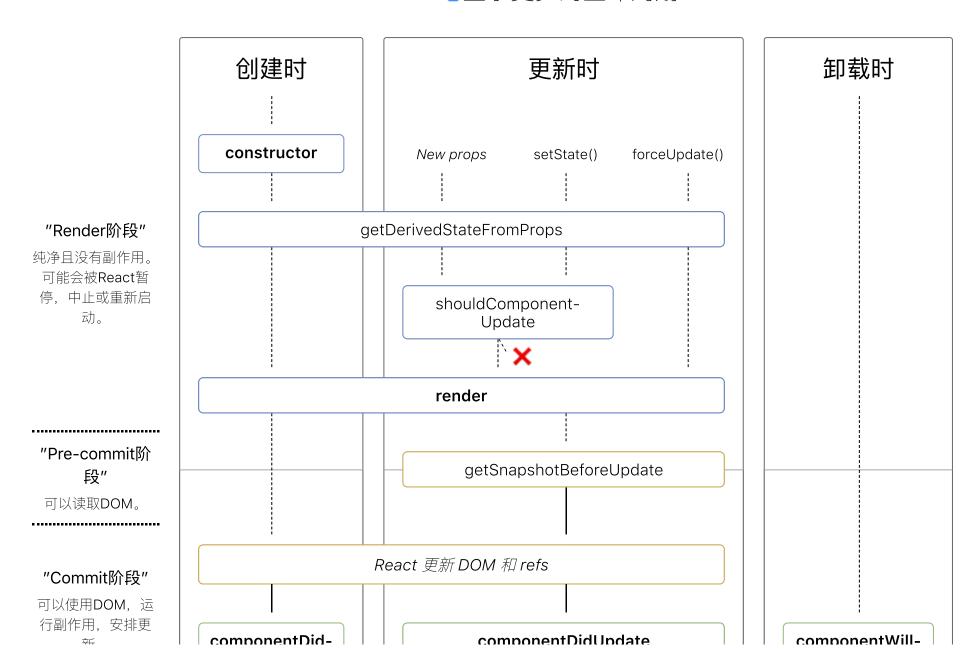
STATE 的更新是 异步的

```
this.setState({ isSubmitting: true });
if (comment.isBlocked) {
  this.setState({ buttonDisabled: false });
}
```

数据流



生命周期



V16.3 版本之前

