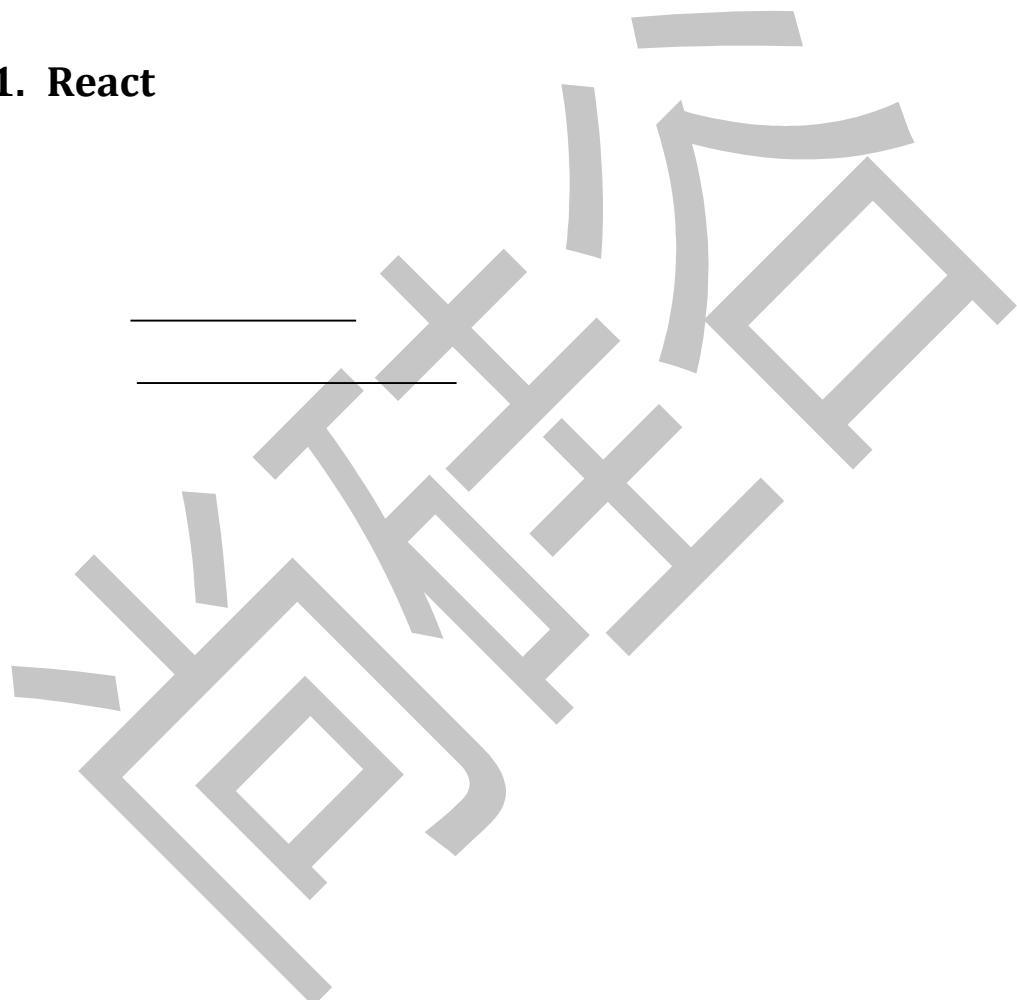
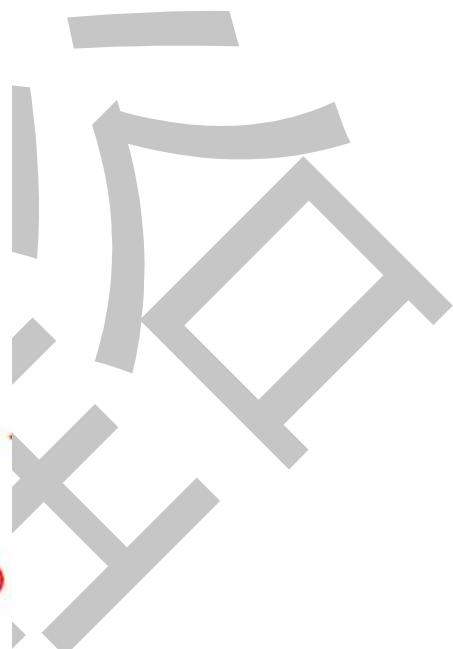
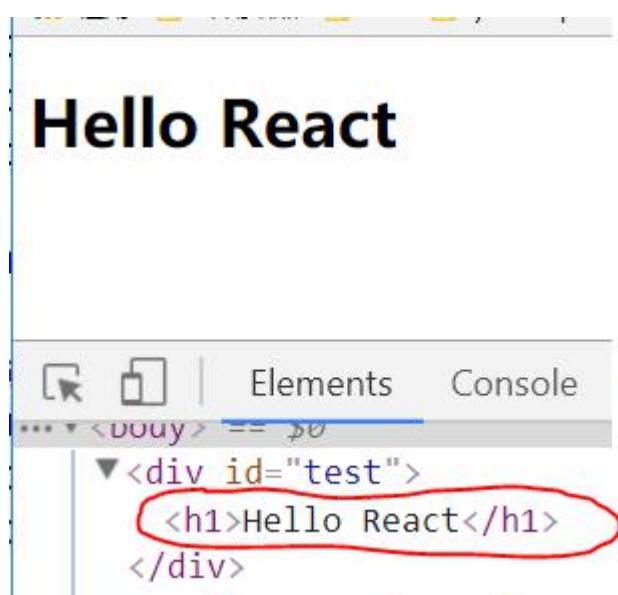


## 1.1. React

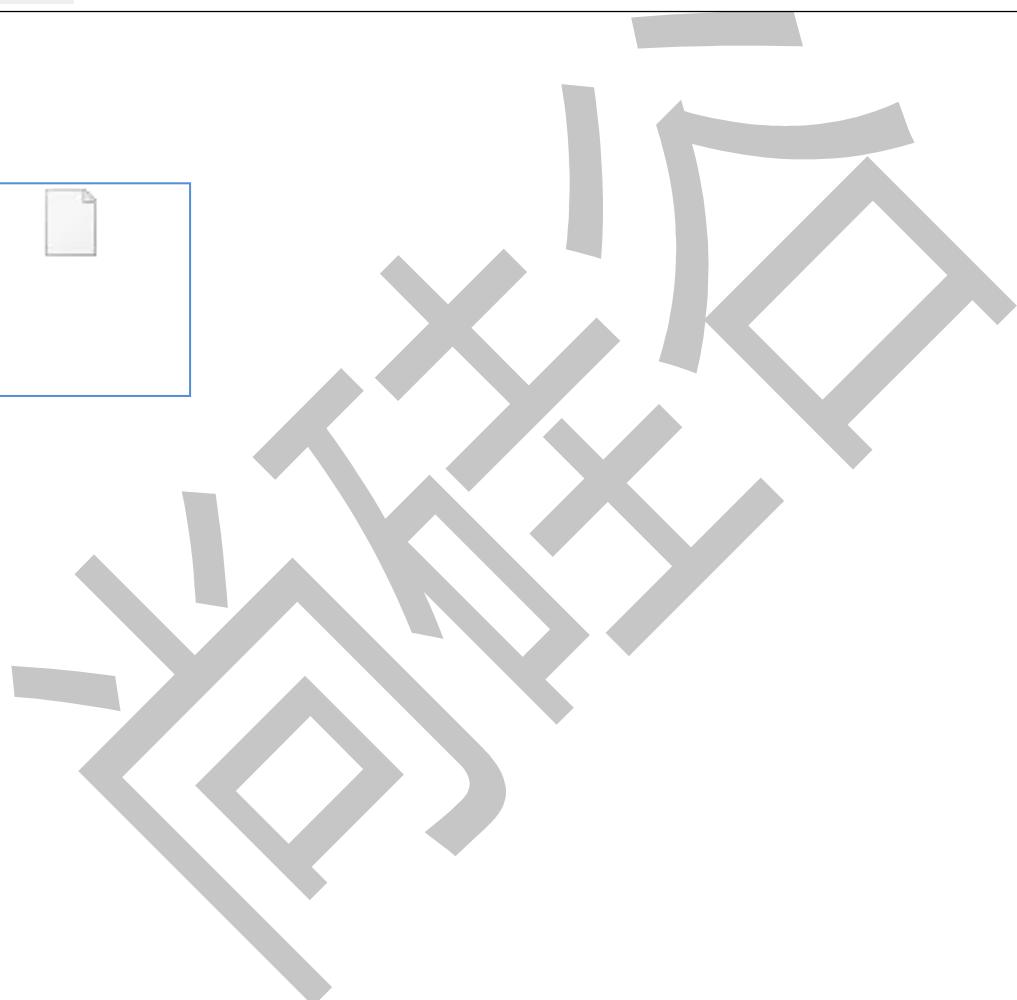
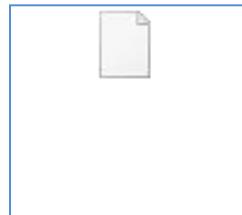


## 1.2. React



< c	a a c	c	ac d	></ c >
< c	a a c	c	ac d d	></ c >
< c	a a c	c	bab	></ c >

```
< c          bab > //      babel
//          DOM
c      vDom = < >Hello React</ > //
//          DOM          DOM
R ac DOM.render(vDom, d c     .getElementById(      ))
</ c >
```



### 1.3. React JSX

I LIKE YOU!

i like you!



```
<div id="test1">
  <h2 id="atguigu">I LIKE YOU!</h2>
</div>
<div id="test2">
  <h3 id="ATGUIGU">i like you!</h3>
</div>
```



前端课程大纲



## 前端JS框架列表

- jquery
- zepto
- angular
- react全家桶
- vue全家桶

1.4.



App组件

## 请发表对React的评论

用户名 CommentAdd组件

用户名

评论内容 CommentList组件

Tom说: ReactJS好难啊! 删除

JACK说: ReactJS还不错! 删除

评论内容

提交

2.1.

## 工厂函数组件(简单组件)

## ES6类组件(复杂组件)



Elements Console Network Sources

Highlight Updates Highlight Search

<MyComponent>

<h2>工厂函数组件(简单组件)</h2>

</MyComponent>

<MyComponent2> == \$r

<h2>ES6类组件(复杂组件)</h2>

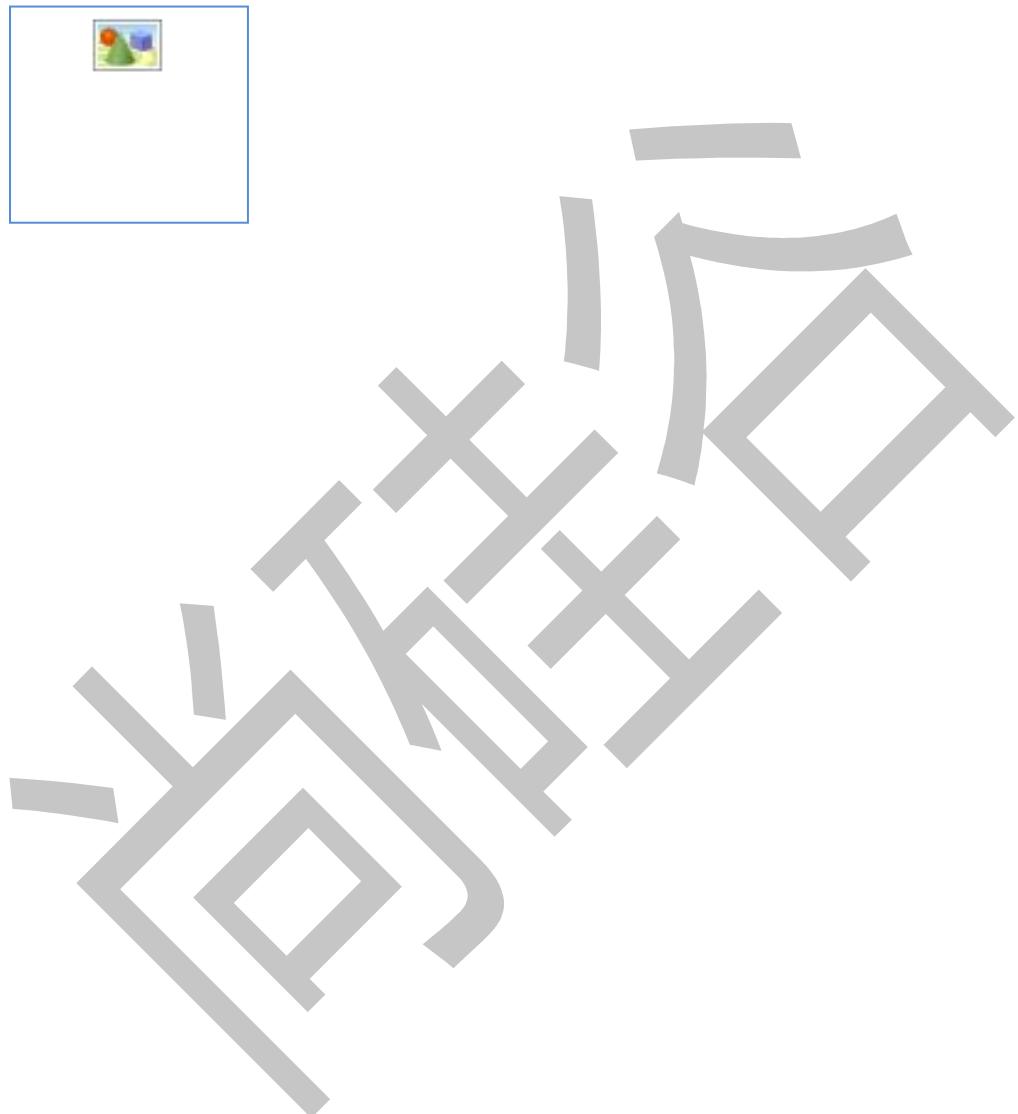
</MyComponent2>

```
c   MyComponent () {
    < >      (      )</ >
}

c a  MyComponent2      d  R ac .Component {
  render () {
    c   .log(      ) // MyComponent2
    < >ES6      (      )</ >
  }
}
```

```
R ac DOM.render(< M C      />, d c      .getElementById( a ))
```

2.2.

**1: state**

### 2.3. 2: props

:  
1).  
2). ,  
3). , 18

- 姓名: Tom
- 性别: 女
- 年龄: 18

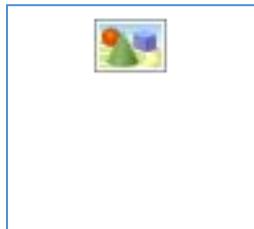
- 姓名: JACK
- 性别: 男
- 年龄: 17



2.4.

3: refs

- : , :
- 2. ,
- 3. 2 ,



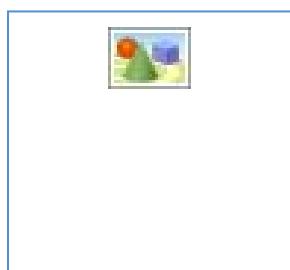
尚硅谷

## 2.5.

:

1. todo

2. ,



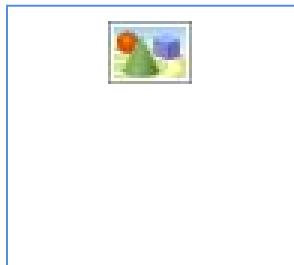
尚硅谷

## 2.6.

:

1. ,

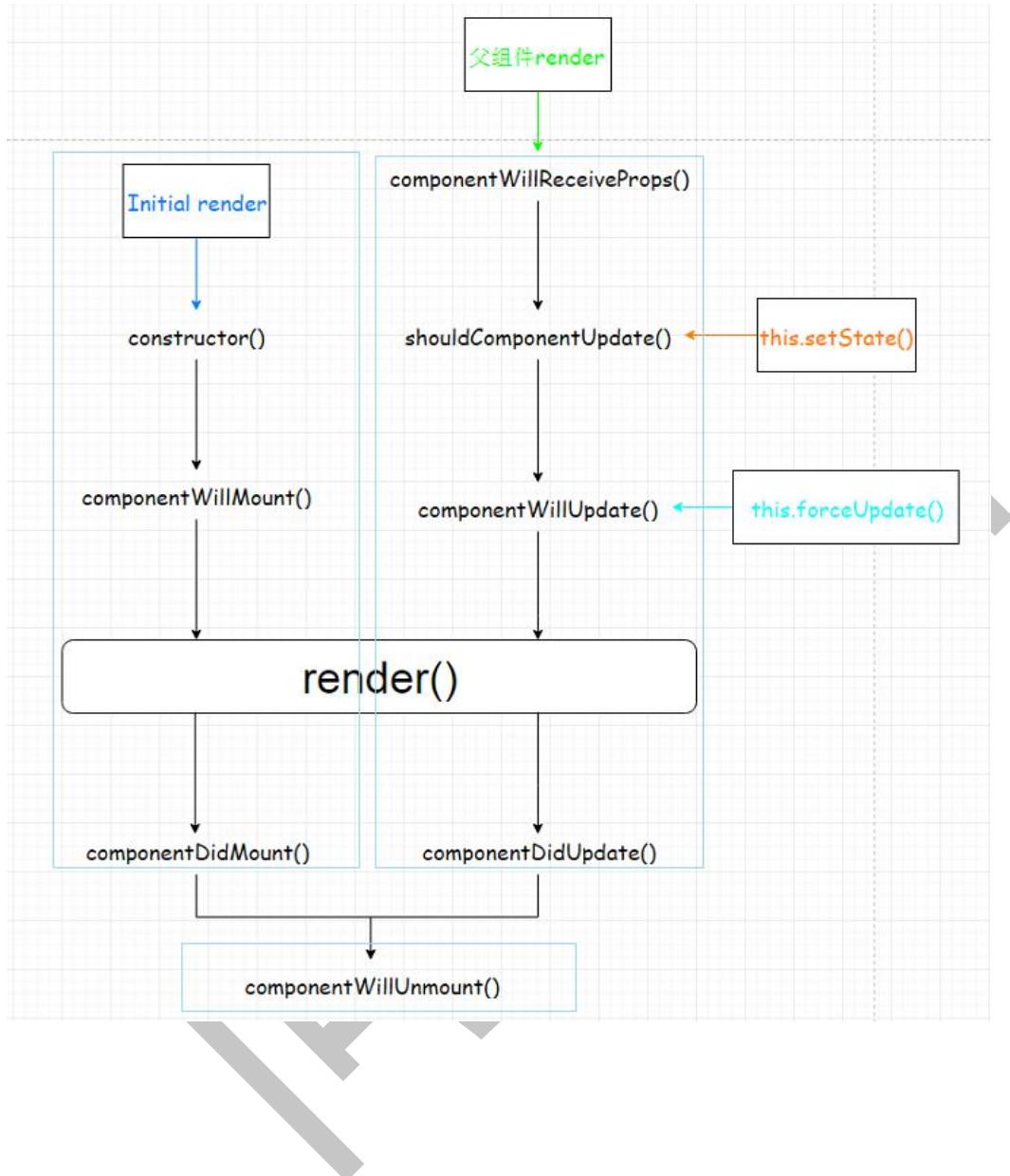
3.



2.7.

- :  
1. /  
2. 2S  
3.



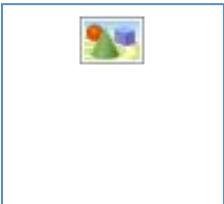




前端课程大纲

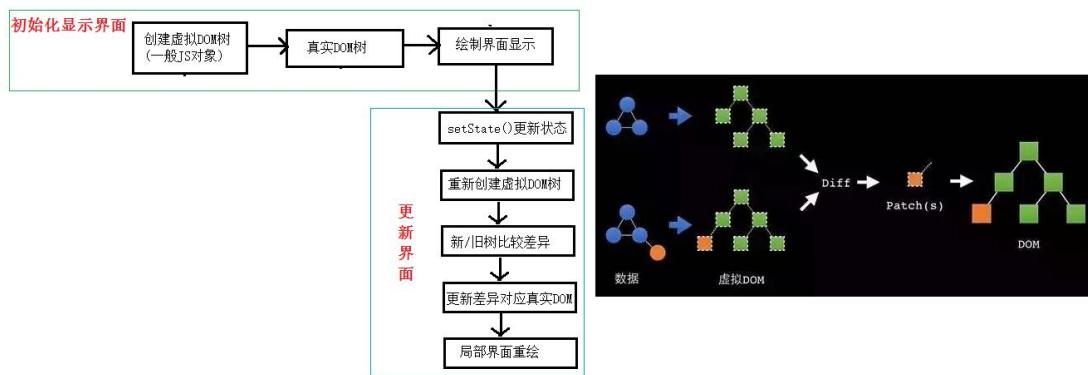
# 前端

## 2.8. DOM DOM Diff



```
c a  HelloWorld      d  R ac .Component {  
c     c  (props) {  
    (props)  
    . a   = {  
      da :     Date()  
    }  
}  
  
componentDidMount () {  
  setInterval(() => {  
    .setState({  
      da :     Date()  
    })  
  }, 1000)  
}  
  
render () {  
  c     .log(  d      )  
  (  
    < >  
    Hello, <           ac      d      Y      a           />! b  
    It is {    . a   .da   .toTimeString()}  
    </ >  
  )  
}  
}  
  
R ac DOM.render(  
<H   W   d/>,
```

```
d c     .getElementById( a )  
)
```

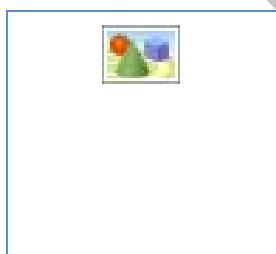


### 3.1. create-react-app react

```
npm install -g create-react-app
create-react-app hello-react
cd hello-react
npm start
```

```
ReactNews
|--node_modules---
|--public
|   |--index.html-----
|--scripts
|   |--build.js-----build
|   |--start.js-----start
|--src-----
|   |--components-----react
|   |--index.js-----js
|--.gitignore-----git
|--package.json---
|--README.md-----readme
```

### 3.2. demo:





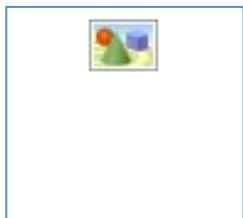
前端课程大纲

# 前端

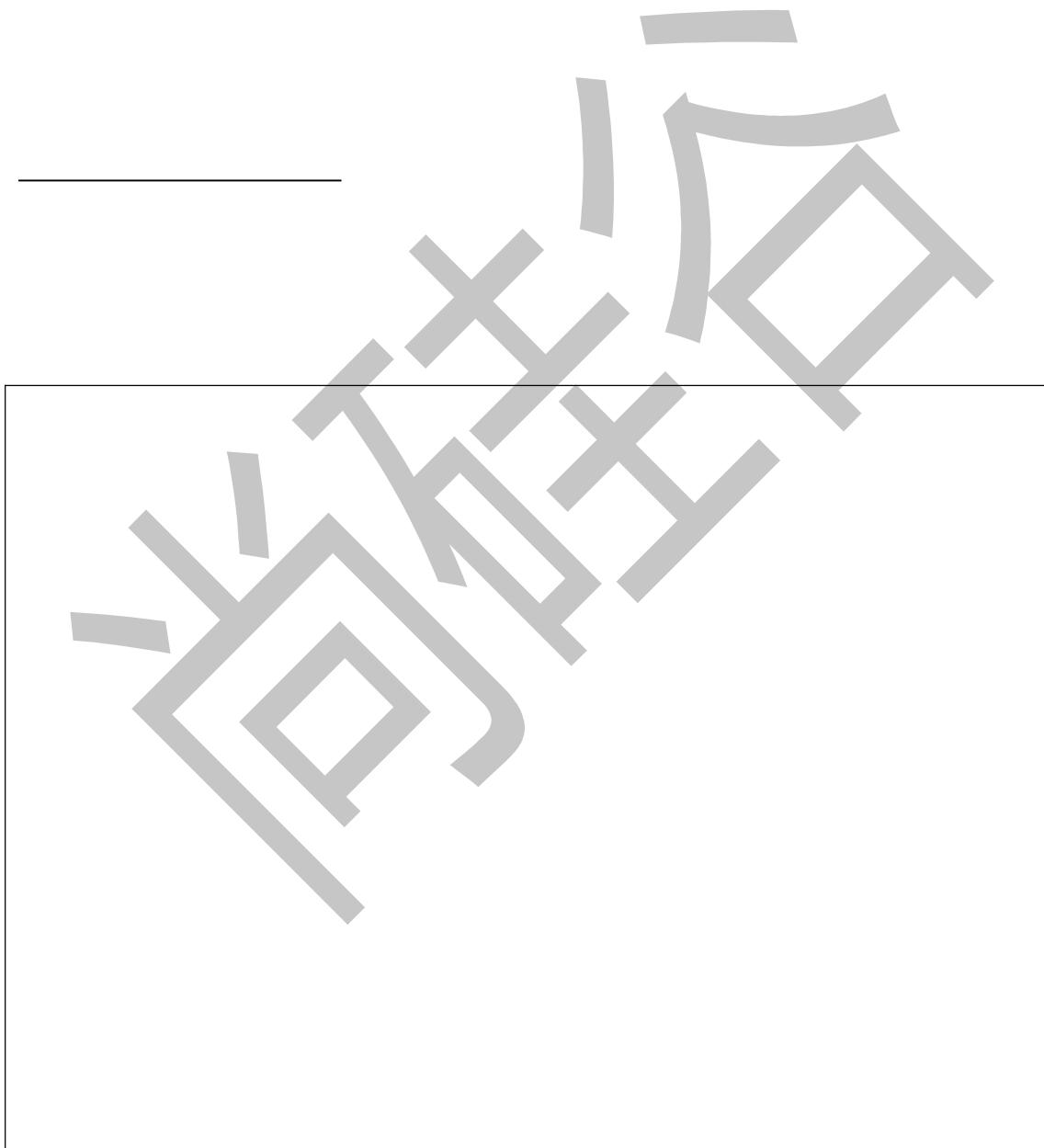
## 4.1.



- :
- 1.
  2.               github
  3.               ,

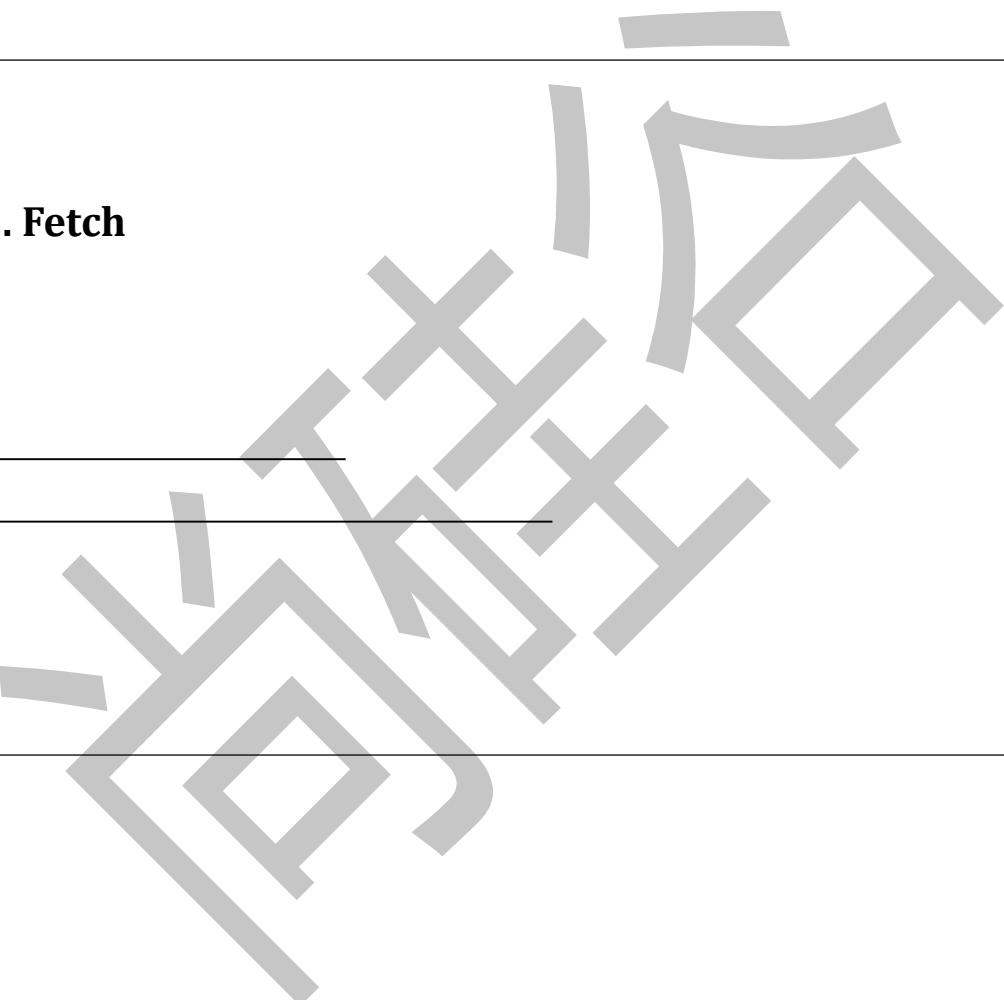


## 4.2. axios





### 4.3. Fetch





#### 4.4. demo: github users



5.1.



5.2.



前端课程大纲



## 6.1.





前端课程大纲

# 前端





```
<!DOCTYPE      >
<      a      >
< ad>
<  a c a      UTF  >
<      >history test</      >
</ ad>
<b d >
< ><      ></ >
<a      c c      push(      ) >test1</a><b ><b >
<b      C c      push(      ) >push test2</b ><b ><b >
<b      C c      back() >    </b ><b ><b >
<b      C c      forward() >   </b ><b ><b >
<b      C c      replace(      ) >replace test3</b ><b ><b >

< c      a a c
c      cd  b  c  c      ></ c      >
< c      a a c      >

      history = H      .createBrowserHistory() //
// history = History.createHashHistory() //
// console.log(history)

      c      push (to) {
      history.push(to)
      a
}

      c      back() {
      history.goBack()
}

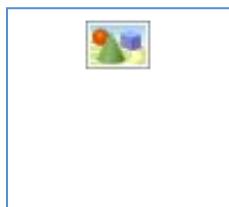
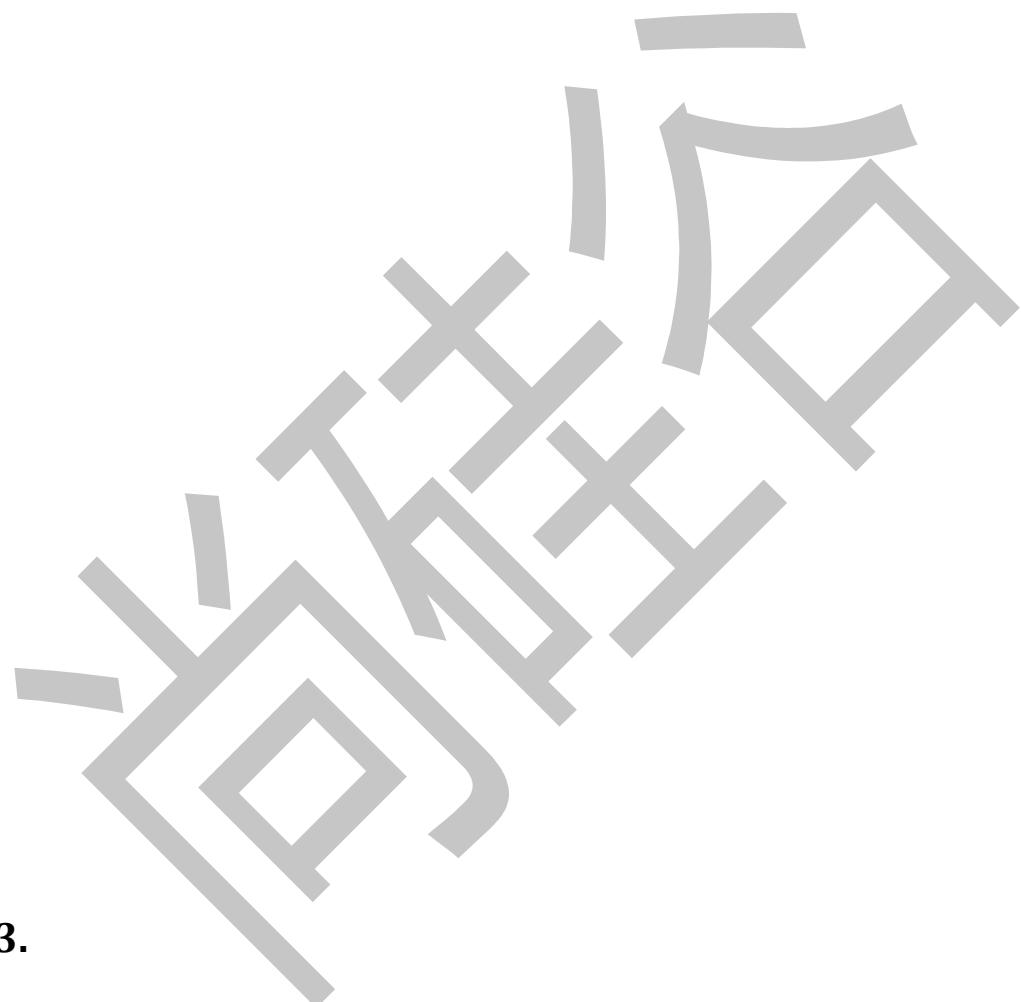
      c      forward() {
      history.goForward()
}

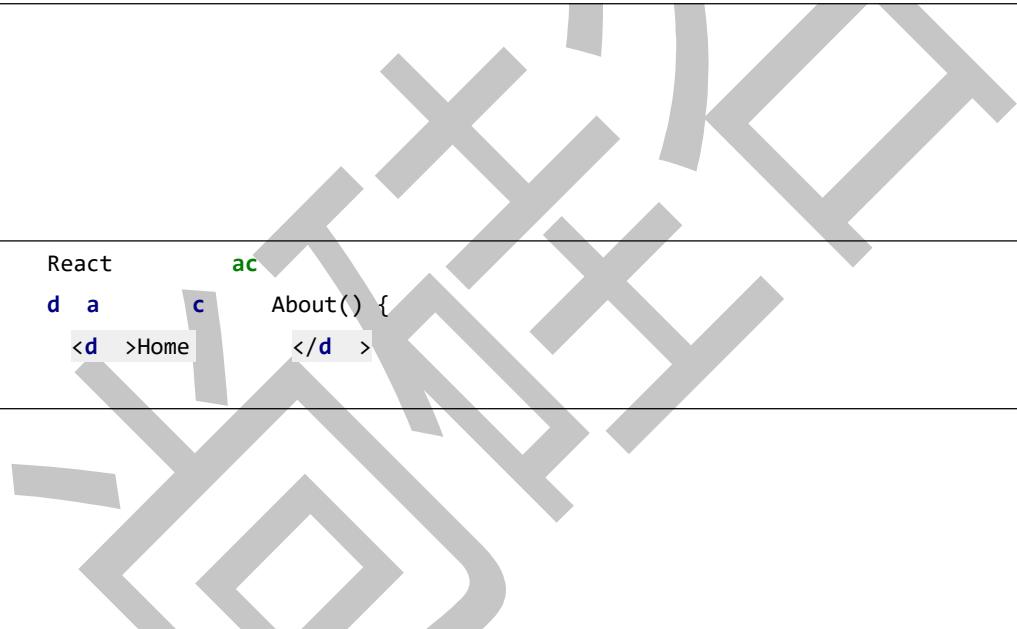
      c      replace (to) {
      history.replace(to)
}

      history.listen((location) => {
      c      .log(      , location)
})
```

```
</ c >  
</b d >  
</ >
```

## 6.2. react-router API





```
React      ac
d a      c      About() {
<d>About      </d>
}
```

```
React      ac
d a      c      About() {
<d>Home      </d>
}
```

```
React      ac
{Na L }      ac      d

d a      c      MyNavLink(props) {
<Na L {...props} ac      C a Na      ac      C a />
}
```

```
React          ac
{R , S c , R d c }      ac      d
MyNavLink      c      a
About          ab
Home

d a   c a   App      d React.Component {

render () {
  (
<d >

  <d c a Na >
    <d c a Na c >
      <d c a Na a ad >
        < >React Router Demo</ >
      </d >
    </d >
  </d >

  <d c a Na >
    <d c a Na c c >
      <d c a Na >
        {/* */}
        <M Na L c a Na ab >About</M Na L >
        <M Na L c a Na ab >Home</M Na L >
      </d >
    </d >
  <d c a Na c >
    <d c a Na a >
      <d c a Na a b d >
        {/* */}
        <S c >
          <R a ab c {About} />
          <R a c {Home} />
          <R d c ab />
        </S c >
      </d >
    </d >
  </d >
}</d >
```

```
</d >
</d >
</d >
</d >
)
}
}
```

```
.ac c a {
c : d a ;
}
```

React ac  
ReactDOM ac d  
{B R , Ha R } ac d  
App c a  
  
d c

```
ReactDOM.render(
(
<B R >
<A />
</B R >
/*<HashRouter>
<App />
</HashRouter>*/
),
d c .getElementById( )
)
```

## 6.4.



```
React      ac
d  a    c a  News      d  React.Component {
a  = {
A : [           ,           ,           ]
}

render () {
(
<d >
< >
{
  . a .   A .map((news, index) => <           {index}>{news}</ >
}
</ >
</d >
)
}
```

```
React      ac
{L , R }      ac      d
```



```
d a c a Message      d React.Component {
a = {
a : []
}

componentDidMount () {
//      ajax
setTimeout(() => {
c data = [
{ d: 1,       : M a },
{ d: 3,       : M a },
{ d: 6,       : M a },
]
.setState({
a : data
}),
1000)
}

render () {
c path =
. . . a c . a

(
<d >
< >
{
. a . a .map((m, index) => {
(
< {index}>
<L >{m. }</L >
</ >
)
})
}
</ >
</d >
)
}
}
```

```
React      ac
{S  c , R  , R d  c }      ac      d
MyNavLink      c      a
News
Message      a

d  a      c      Home() {
(
<d >
< >Home      </ >
<d >
< c a Na      a   a   ab >
< >
<M Na L      >News</M Na L >
</ >
< >
<M Na L      a >Message</M Na L >
</ >
</ >
<S  c >
<R  a      c      {News} />
<R  a      a   c      {Message} />
<R d  c      />
</S  c >
</d >
</d >
)
}
```

## 6.5.



```
React      ac
c   messageDetails = [
  { d: 1,      : M a , c :           },
  { d: 3,      : M a , c :           },
  { d: 6,      : M a , c :           },
]
d a      c      MessageDetail(props) {
  c   id = props.a.c.params.d
  c   md = messageDetails.find(md => md.d === id*1)

  (
  < >
    < >ID: {md.d}</ >
    < >TITLE: {md. }</ >
    < >CONTENT: {md.c }</ >
  </ >
)
}
```

```
React      ac
{L , R }      ac      d
```



```
MessageDetail           a  d  a

d  a    c  a  Message      d  React.Component {
a  = {
a  : []
}

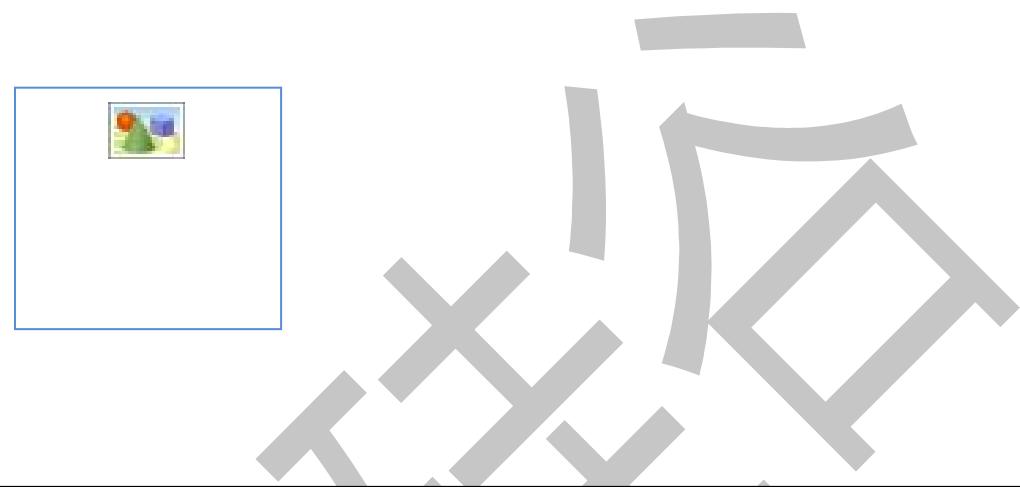
componentDidMount () {
//      ajax
setTimeout(() => {
c  data = [
{ d: 1,      : M  a      },
{ d: 3,      : M  a      },
{ d: 6,      : M  a      },
]
.setState({
a  : data
})
}, 1000)
}

render () {
c  path = . . . a c . a

(
<d >
< >
{
  . a . a .map((m, index) => {
    (
      < {index}>
        <L      { ${path} ${m. d} }>{m.      }</L >
      </ >
    )
  })
}
</ >
< />
<R      a  { ${path}  d } c      {MessageDetail}></R >
</d >
)
```

{  
}

## 6.6.



```
React      ac
{L , R }      ac      d
MessageDetail      a   d   a

d a   c a   Message      d  React.Component {
a = {
a : []
}

componentDidMount () {
//      ajax
setTimeout(() => {
c data = [
{ d: 1,      : M a      },
{ d: 3,      : M a      },
{ d: 6,      : M a      },
]
.setState({
a : data
}),
}, 1000)
```



```
}

ShowDetail = (id) => {
    . . . ( a ${id} )
}

ShowDetail2 = (id) => {
    . . . ac ( a ${id} )
}

back = () => {
    . . . Bac ()
}

forward = () => {
    . . . F a d()
}

render () {
    c path = . . a c . a

    (
    <d >
    < >
    {
        . a . a .map((m, index) => {
            (
            < {index}>
            <L { ${path} ${m. d} }>{m. }</L >
            b
            <b c c={()=> .ShowDetail(m. d)}>
(push)</b > b
            <b c c={()=> .ShowDetail2(m. d)}>
(replace)</b >
            </ >
        )
    })
}
</ >
< b c c={ .back}> </b > b
```



## 7.2. ant-design-mobile



```
React, {Component}      ac
//  

  Button      a d b      b b  

  Toast      a d b      b a  

  d a      c a      App      d Component {  

    handleClick = () => {  

      Toast.info(      , 2)  

    }  

    render() {  

      (  

        <d>  

        <B>      a      c c { .handleClick}>      </B>  

      )  

    }  

  }  

}
```

```
</d >
)
}
}
```

```
React      ac ;
ReactDOM    ac d
App        A
//          css
a d b d a d b c
```

```
ReactDOM.render(<A />, document.getElementById())
```



```
< a a a           c       d   d   c   d   a   ca   a   ca
  ca           ca ab   />

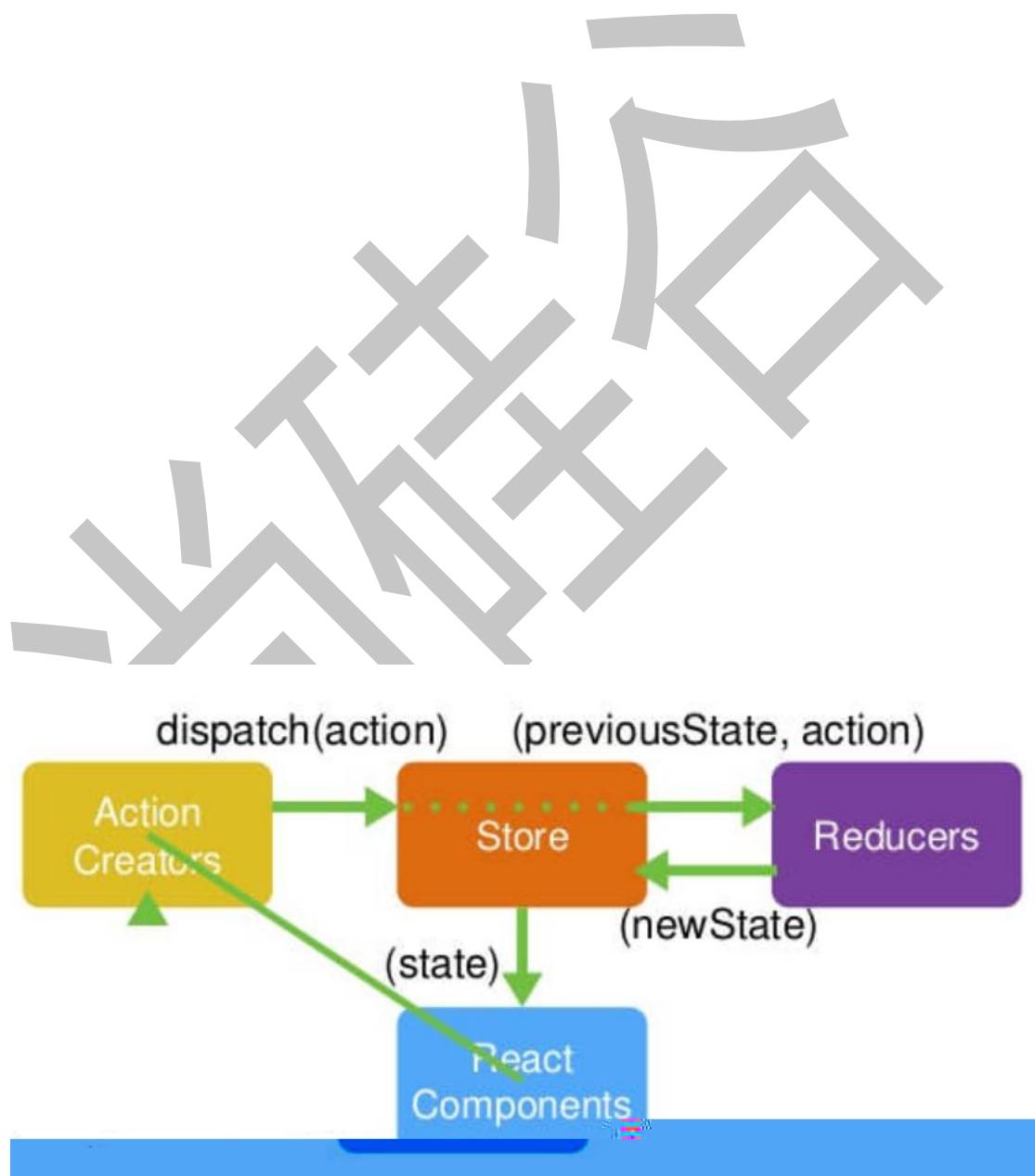
< c
  c   a   a   a   b   c   c   c   a   c   c   a   c   c   ></ c
>
< c >
  ( addE   L     in d c ) {
    d c   .addEventListener( DOMC   L ad d , c () {
      FastClick.attach(d c .b d );
    }, a );
  }
  (! d .P ) {
    d c   .writeln( c
      c   a   a   a   b   c   c   c
      +   +   +   +   c   );
  }
</ c >
```

```
●
c : {
  a : ac a      d a ,
  b d : ac a      d b d ,
  : ac a      d           d
}
```

```
●
c {injectBabelPlugin} = require( ac a      d );
d .exports = c override(config, env) {
config = injectBabelPlugin([           , { b a Na : a d b ,       : c }], config);
  config;
};
```

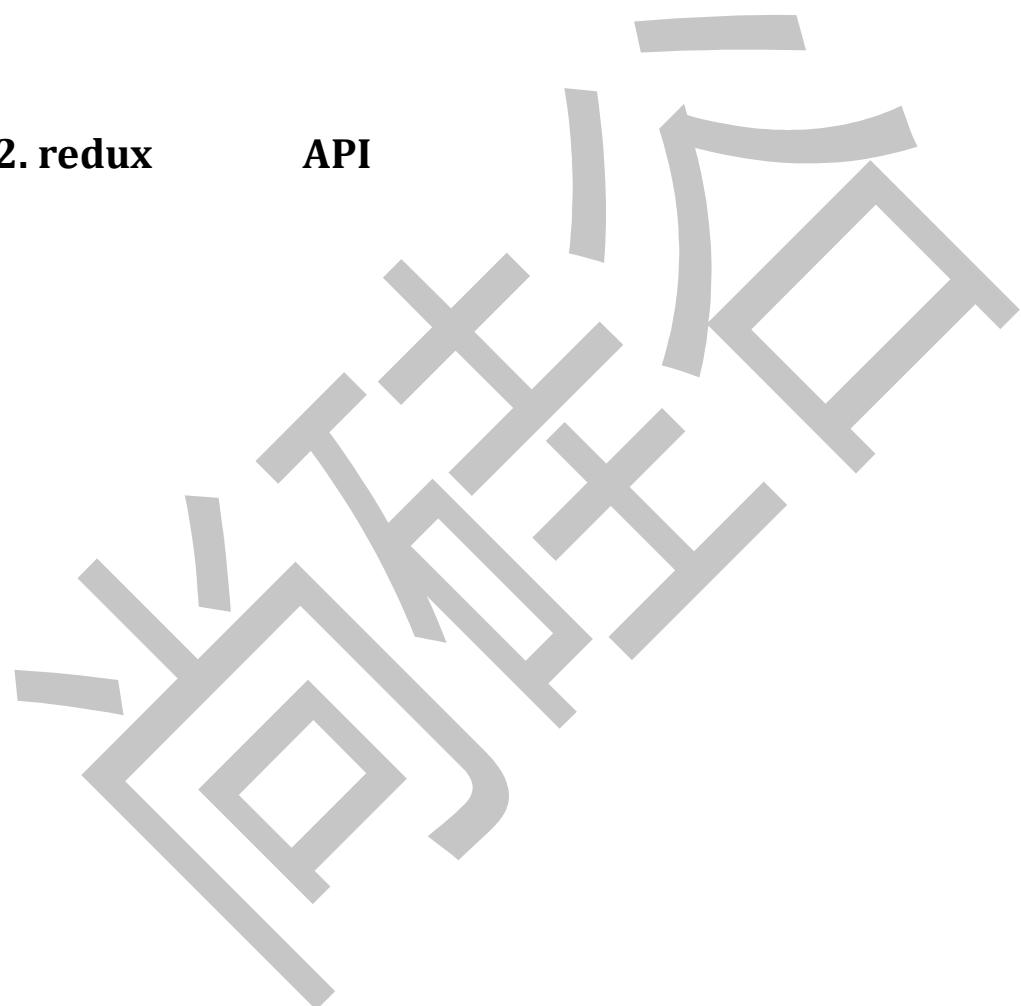
```
// import 'antd-mobile/dist/antd-mobile.css'
// import Button from 'antd-mobile/Lib/button'
// import Toast from 'antd-mobile/Lib/toast'
  {Button, Toast}      a d b
```

## 8.1. redux



## 8.2. redux

## API



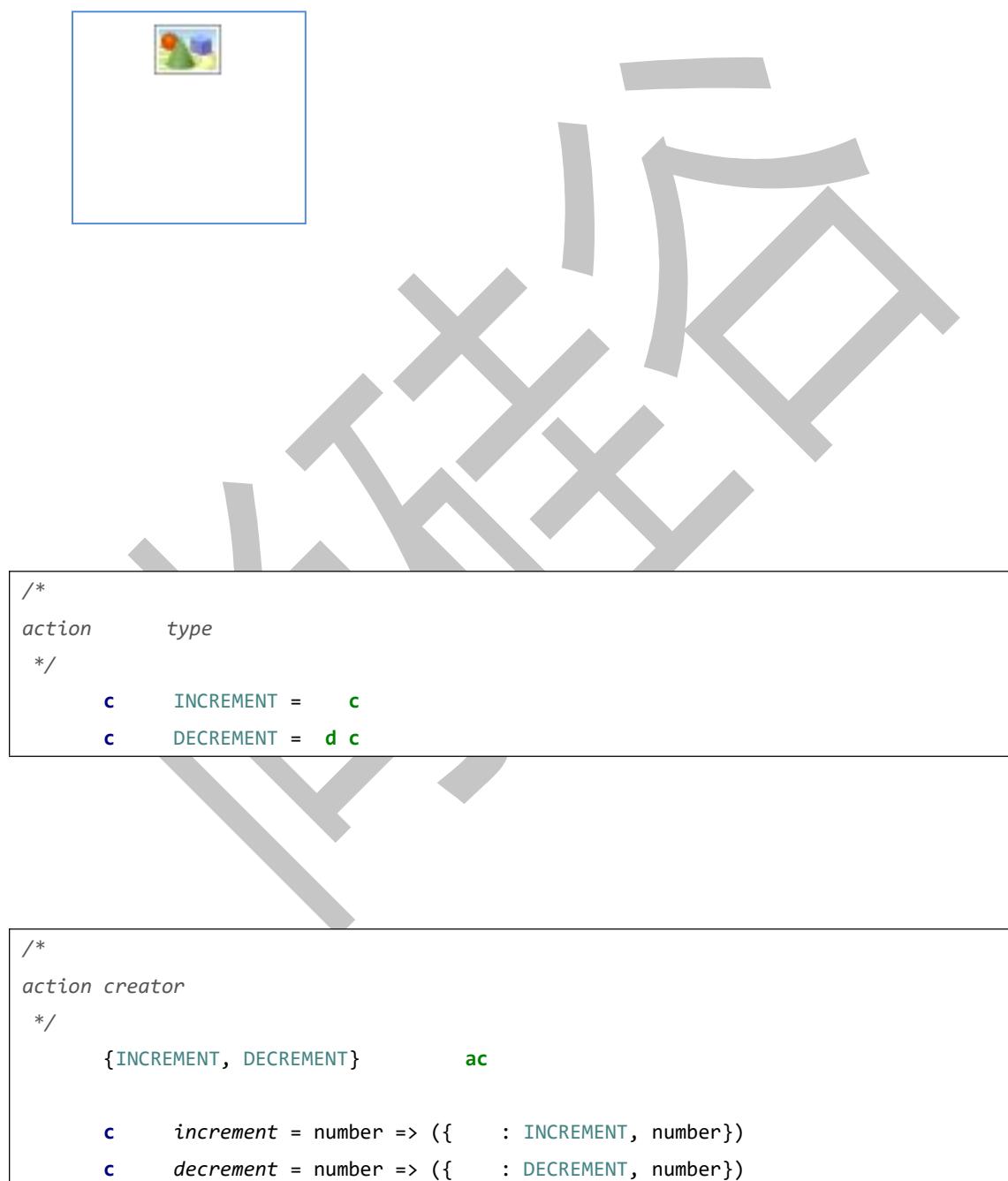
### 8.3. redux



前端课程大纲

# 前端

## 8.4. redux



```
/*
    state      action,          state
*/
    {INCREMENT, DECREMENT}      c   a   Ac   T

    {INCREMENT, DECREMENT}      ac

        c      counter(state = 0, action) {
c      .log( c      , state, action)
    c (action.    ) {
ca  INCREMENT:
        state + action.  b
ca  DECREMENT:
        state - action.  b
d   a   :
        state
    }
}
```



```
/*
*/
    React, {Component}      ac
    PropTypes
    * a  actions           d  ac

    d   a   c a   App       d  Component {

        a  c propTypes = {
            : PropTypes.object.isRequired,
        }

        increment = () => {
            c   number =      .  numSelect. a   * 1
            .  .  .  . dispatch(actions.increment(number))
        }
    }
}
```

```
}

decrement = () => {
  c     number =     .    .numSelect. a      * 1
        .    .    .dispatch(actions.decrement(number))
}

incrementIfOdd = () => {
  c     number =     .    .numSelect. a      * 1

  count =     .    .    .getState()
  (count % 2 === 1) {
    .    .    .dispatch(actions.increment(number))
  }
}

incrementAsync = () => {
  c     number =     .    .numSelect. a      * 1
  setTimeout(() => {
    .    .    .dispatch(actions.increment(number))
  }, 1000)
}

render() {
  (
    <d >
    < >
    click {     .    .    .getState()} times {    }
  </ >
  <   c       s   c >
    <     a     >1</     >
    <     a     >2</     >
    <     a     >3</     >
  </   c >{    }
  <b     c   c {     .increment}>+</b     >
  {    }
  <b     c   c {     .decrement}>-</b     >
  {    }
  <b     c   c {     .incrementIfOdd}>increment if odd</b     >
  {    }
  <b     c   c {     .incrementAsync}>increment async</b     >
```



## 前端课程大纲

```
</d >
)
}
}
```

```
React      ac
ReactDOM     ac d
{createStore}      d

App       c      a
{counter}      d      d c

//   counter      store
c   store = createStore(counter)

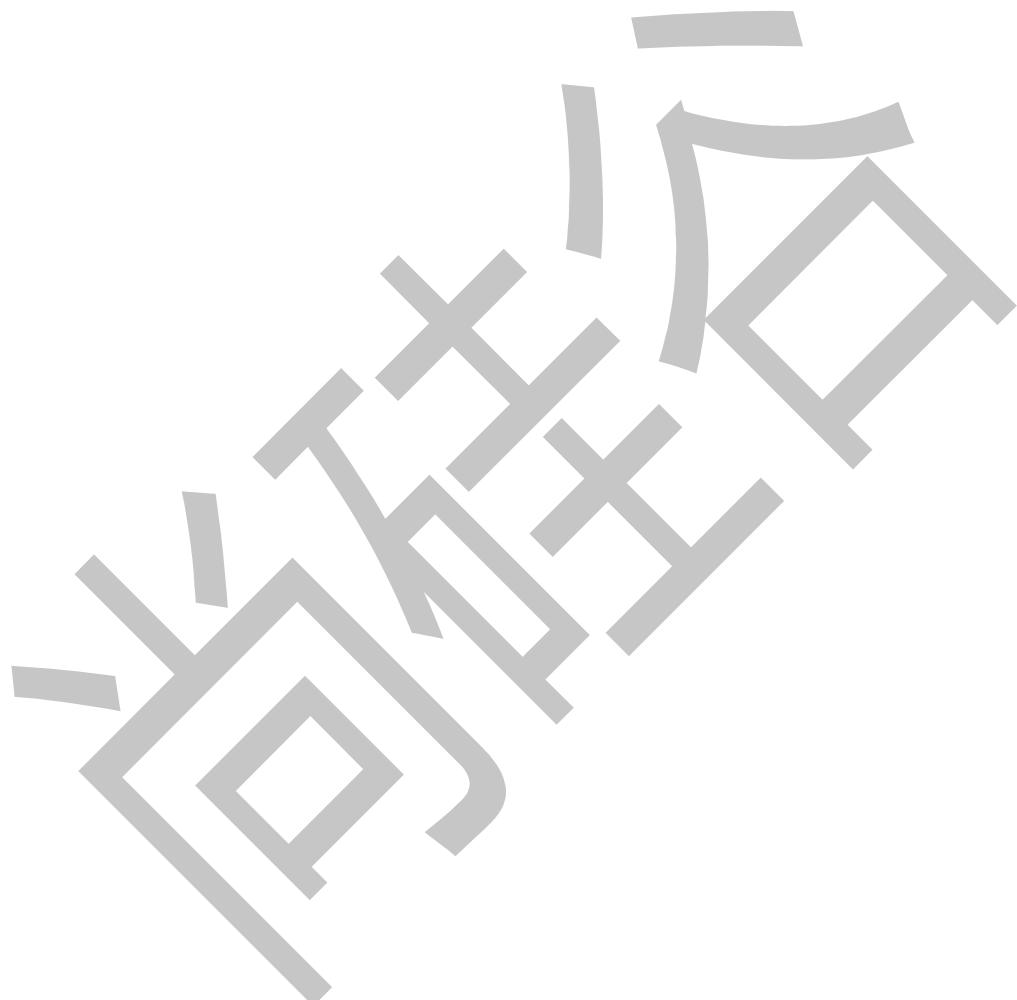
//
c   render = () => {
  ReactDOM.render(
    <A      {store}/>,
    d c     .getElementById(      )
  )
}

// 
render()

//   (      ,      ,
store.subscribe(render)
```

---

## 8.5. react-redux





```
/*
UI      :           redux API
*/
      React          ac
      PropTypes

      d  a      c  a    Counter      d  React.Component {

      a  c  propTypes = {
      c      : PropTypes.number.isRequired,
      c      : PropTypes.func.isRequired,
      d  c      : PropTypes.func.isRequired
    }
```



```
increment = () => {
  c    number =     .    .numSelect. a    * 1
      .    . c    (number)
}

decrement = () => {
  c    number =     .    .numSelect. a    * 1
      .    .d c    (number)
}

incrementIfOdd = () => {
  c    number =     .    .numSelect. a    * 1
  count =     .    .c
  (count % 2 === 1) {
    .    . c    (number)
  }
}

incrementAsync = () => {
  c    number =     .    .numSelect. a    * 1
  setTimeout(() => {
    .    . c    (number)
  }, 1000)
}

render() {
  (
    <d>
    <>
      click {    .    .c    } times {    }
    </>
    < c      s   c >
      < a      >1</>
      < a      >2</>
      < a      >3</>
    </ c >{    }
    <b      c   c {    .increment}>+</b>
    {    }
    <b      c   c {    .decrement}>-</b>
    {    }
}
```

```
<b      c  c {    .incrementIfOdd}>increment if odd</b      >
{
}
<b      c  c {    .incrementAsync}>increment async</b      >
</d  >
)
}
}
```

```
/*
  Counter
*/
React      ac
//          ac      d
//          action
{increment, decrement}      d      ac

Counter      c      c

//          App
d  a  connect(
state => ({c      : state}),
{increment, decrement}
)(Counter)
```



```
React      ac
ReactDOM      ac  d
{createStore}      d
{Provider}      ac  d

App      c  a      a
{counter}      d      d  c

//          counter      store
c  store = createStore(counter)

//
ReactDOM.render(
(
```

```
<P      d      {store}>
  <A      />
</P      d      >
),
d c      .getElementById(      )
```

## 8.6. redux



```
{createStore, applyMiddleWare}
thunk      d
//      counter      store
c      store = createStore(
  counter,
  applyMiddleware(thunk) // 
)
```

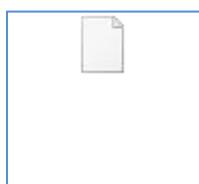
```
//      action creator(      )
```

```
c      incrementAsync = number => {
  dispatch => {
    setTimeout(() => {
      dispatch(increment(number))
    }, 1000)
  }
}
```

```
incrementAsync = () => {
  c   number =     .  numSelect. a  *1
      .  .  c   A  c(number)
}
```

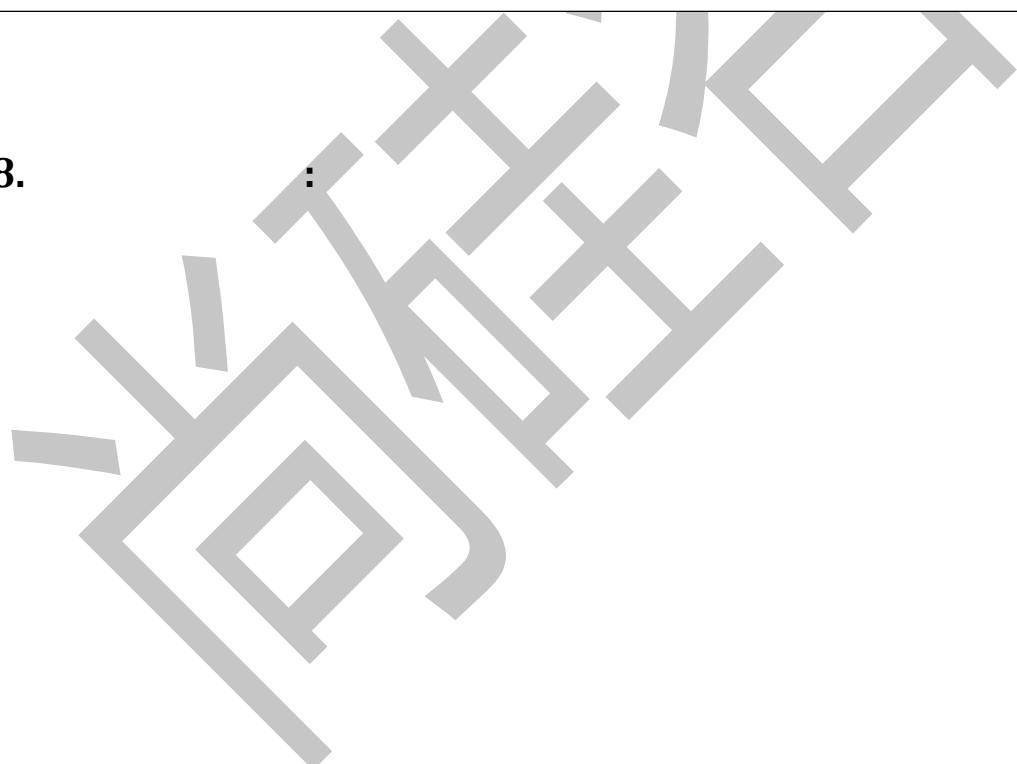
```
//          App
d a connect(
  state => ({c : state}),
  {increment, decrement, incrementAsync}
)(Counter)
```

## 8.7. redux



```
{ c      W   D T      }      d  d
c     store = createStore(
  counter,
  c      W   D T      applyMiddleware(thunk))
)
```

8.8.





前端课程大纲

# 前端