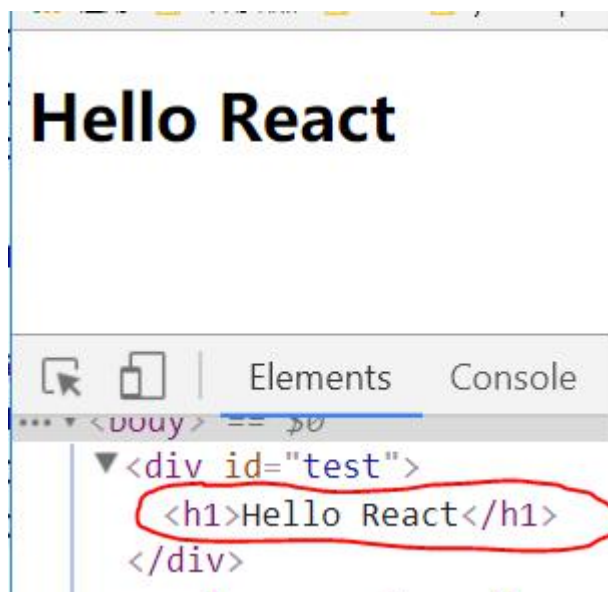


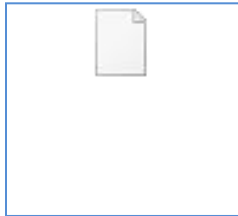
1.1. React

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	>

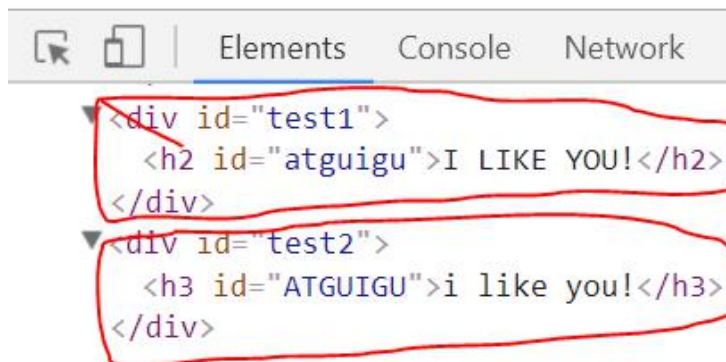
```
< c      bab > //      babel
//      DOM
c      vDom = < >Hello React</ > //
//      DOM      DOM
R ac DOM.render(vDom, d c      .getElementById(      ))
</ c >
```



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>
```

尚硅谷

前端JS框架列表

- jquery
- zeptoo
- 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

评论内容

提交

评论回复: CommentList组件

Tom说: CommentItem组件
ReactJS好难啊!

JACK说: CommentItem组件
ReactJS还不错!

2.1.

工厂函数组件(简单组件)

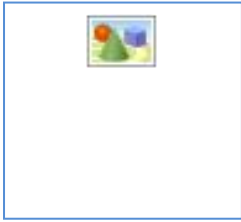
ES6类组件(复杂组件)

```
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>
```

```
class MyComponent () {  
  < > ( )</ >  
}  
  
class MyComponent2 extends React.Component {  
  render () {  
    .log( ) // MyComponent2  
    < >ES6 ( )</ >  
  }  
}
```

```
ReactDOM.render(<MyComponent />, document.getElementById('root'))
```

2.2. 1: state



2.3. 2: props

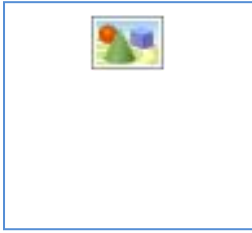
:
1).
2). ,
3). , 18

- 姓名: Tom
- 性别: 女
- 年龄: 18

- 姓名: JACK
- 性别: 男
- 年龄: 17

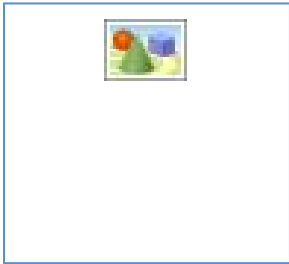
2.4. 3: refs

```
: , :  
2. ,  
3. 2 ,
```



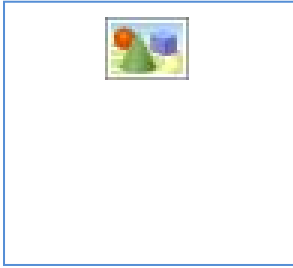
2.5.

- :
1. todo
 2. ,



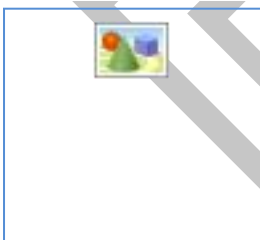
2.6.

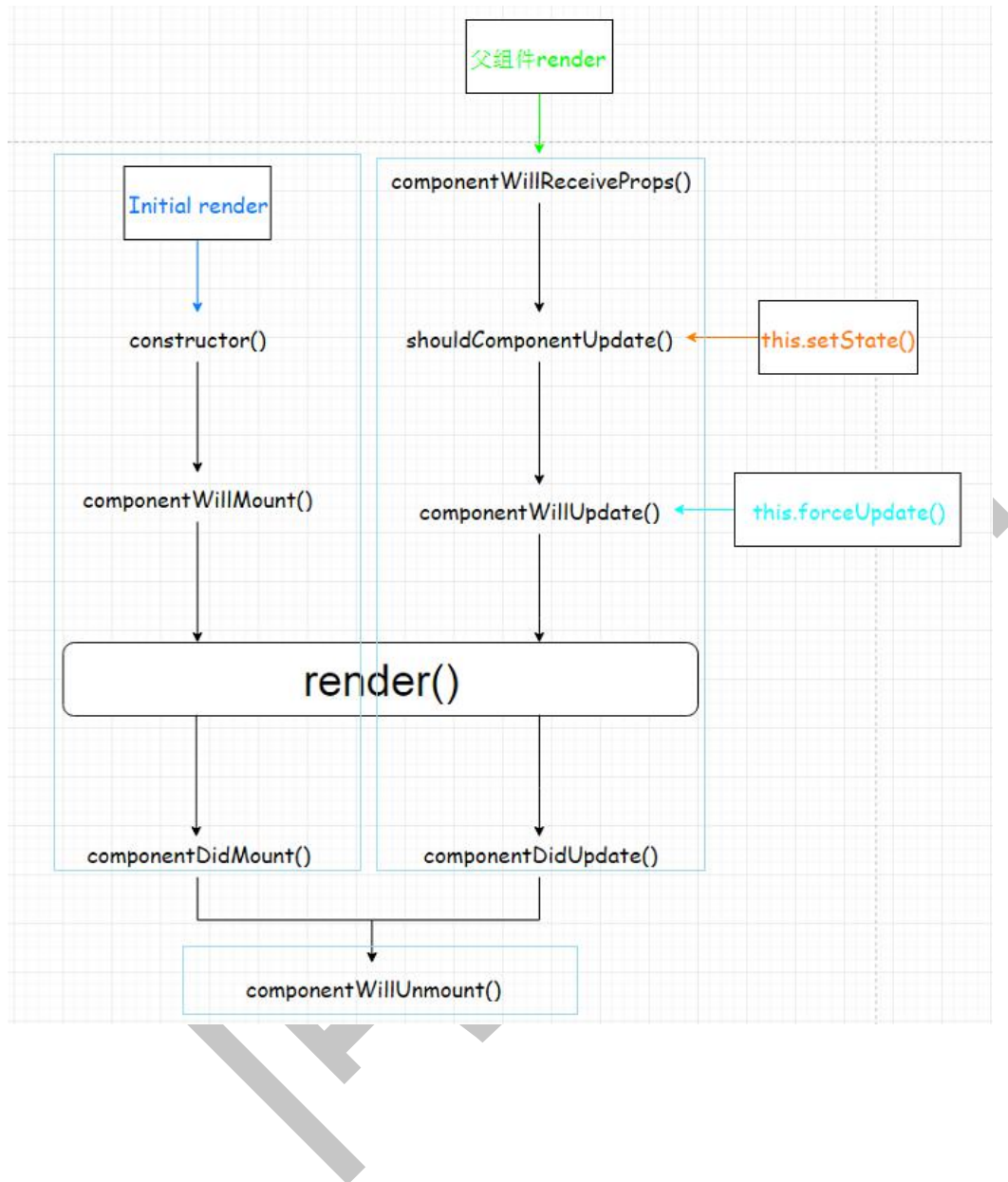
- :
1. ,
 - 3.



2.7.

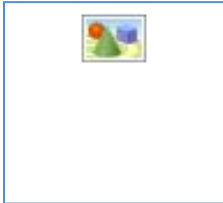
- :
- 1. /
- 2. 25
- 3.





尚硅谷

2.8. DOM DOM Diff



```

c a HelloWorld      d R ac .Component {
  c    c  (props) {
    (props)
    . a  = {
      da :    Date()
    }
  }
}

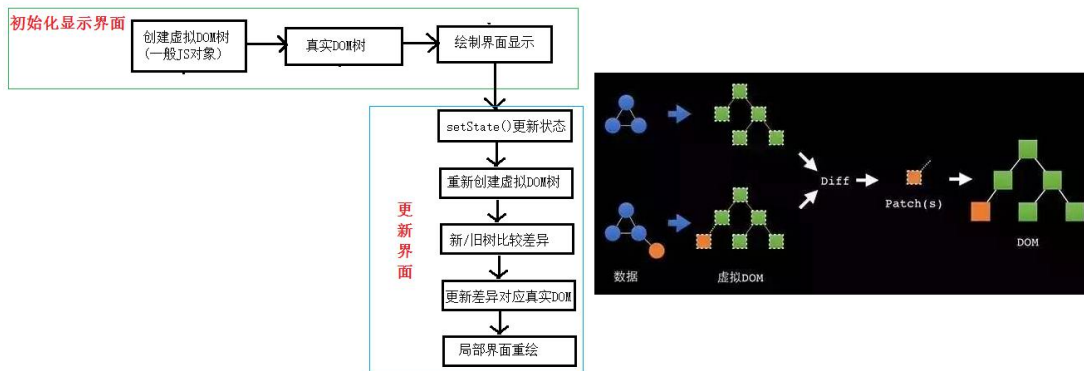
componentDidMount () {
  setInterval(() => {
    .setState({
      da :    Date()
    })
  }, 1000)
}

render () {
  c    .log(      d      )
  (
    < >
    Hello, <      ac    d    Y    a    />!    b
    It is {      . a .da .toString()}
    </ >
  )
}
}

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:



尚硅谷

4.1.

- :
- 1.
- 2. github
- 3. ,



4.2. axios

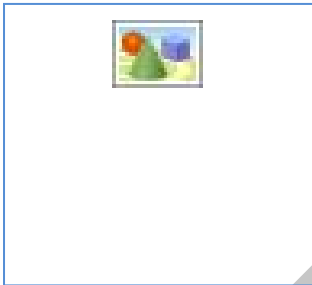




4.3. Fetch



4.4. demo: github users



5.1.

5.2.

尚硅谷

6.1.

尚硅谷



```
<!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 forword() > </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 forword() {
    history.goForward()
  }

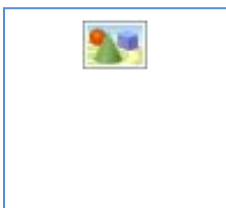
  c replace (to) {
    history.replace(to)
  }

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

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

6.2. react-router API

6.3.



```
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
{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 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 >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>
)
}
}

```

```

.ac C a {
  c : d a ;
}

```

```

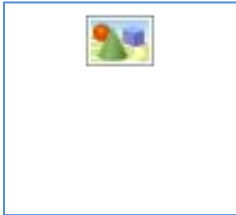
React      ac
ReactDOM   ac d
{B R , Ha R } ac d
App        c a

d c

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

```

6.4.



```

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

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

```

```

React
  {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 >  
      )  
    }  
  }  
}
```

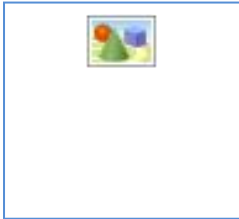
```

React
{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 : []
}

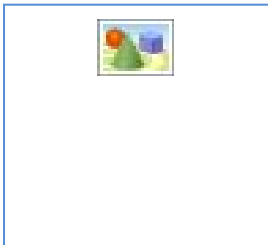
componentDidMount () {
  //      ajax
  setTimeout(() => {
    c data = [
      { d: 1,      : M a      },
      { d: 3,      : M a      },
      { d: 6,      : M a      },
    ]
    .setState({
      a : data
    })
  }, 1000)
}

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
{L, R}
MessageDetail

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()
}

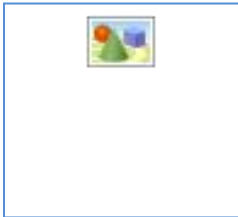
render () {
  c path = . . . a c . a

  (
    <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 />, d c .getElementById( ))

```

```

< 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 >

```

●

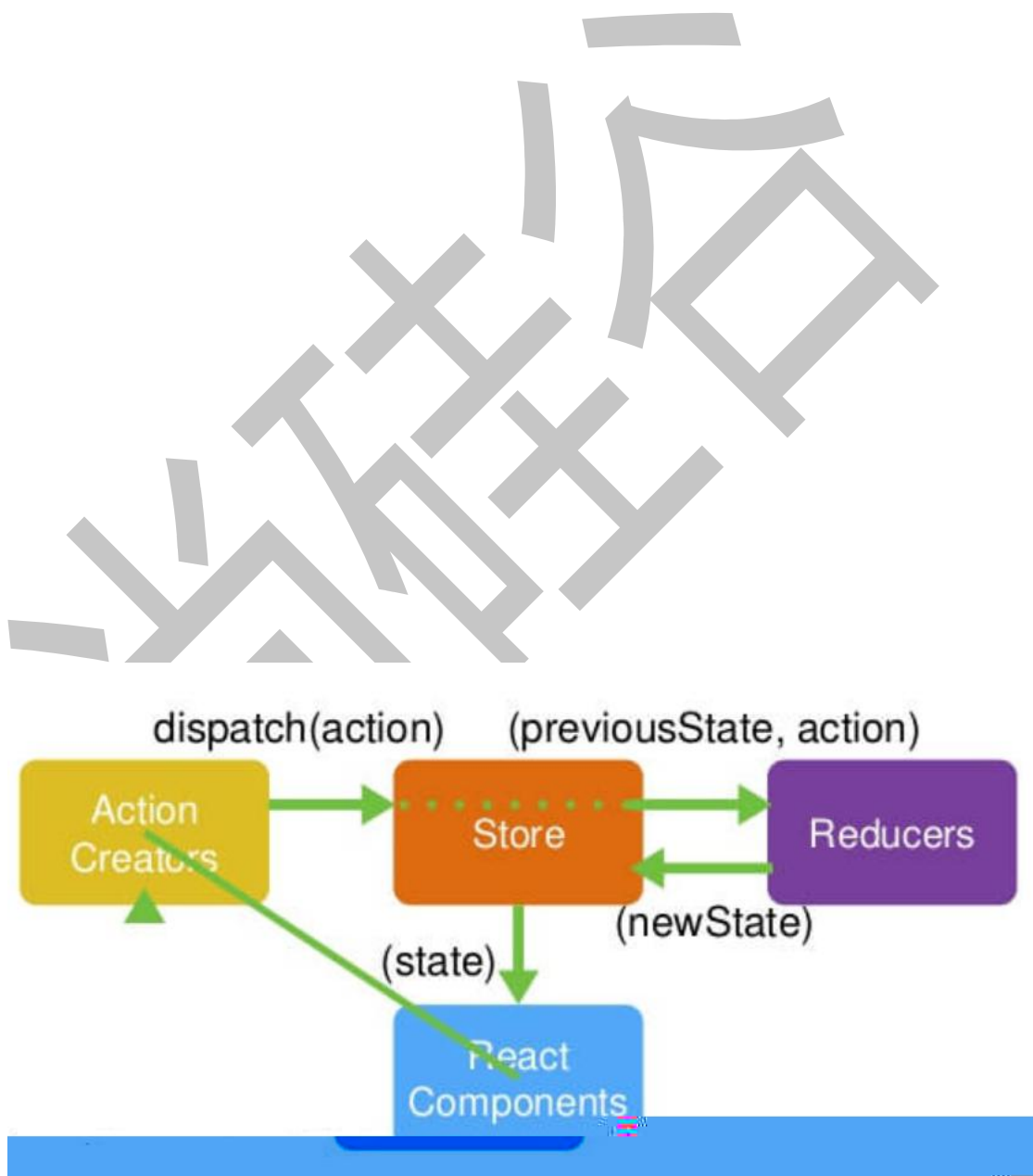
```
c      : {  
  a    :   ac a      d a  ,  
  b d  :   ac a      d b  d ,  
      :   ac a      d      d  
}
```

●

```
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



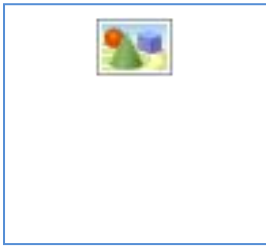
8.2. redux

API

8.3. redux

尚硅谷

8.4. redux



```
/*  
  action      type  
*/  
  
c    INCREMENT = c  
c    DECREMENT = d c
```

```
/*  
  action creator  
*/  
  
  {INCREMENT, DECREMENT}    ac  
  
c    increment = number => ({ : INCREMENT, number})  
c    decrement = number => ({ : DECREMENT, number})
```

```

/*
    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 >
  )
}
```

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

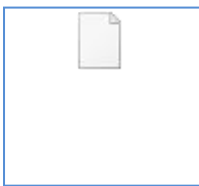
```
// action creator( )
```

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

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

```
    {increment, decrement, incrementAsync}    d    ac  
//    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. :

尚硅谷