UVOD U REACT

Cao!

Ja sam Uros Nikolic!

Senior Software Engineer
at Welltok Inc.

Mozete da me nadjete na LinkedIn-u
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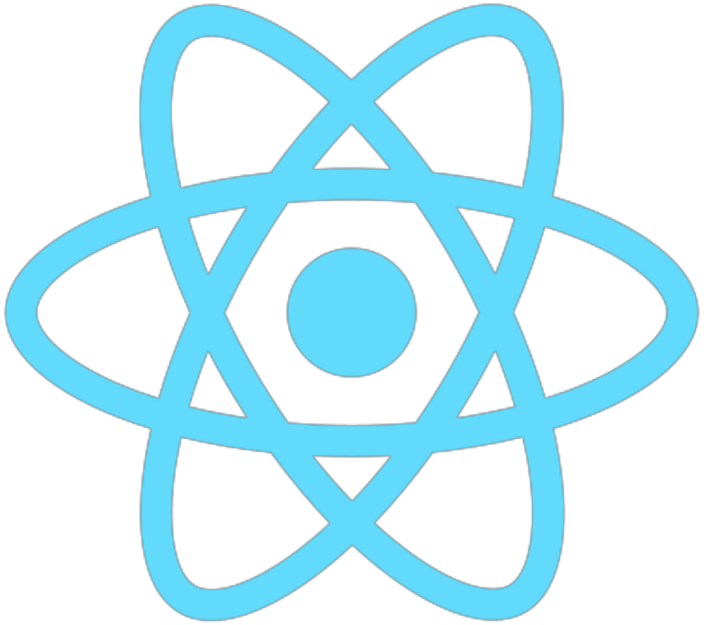


REACT

PRVI DEO DANASNJEG PREDAVANJA UOPSTEN
DRUGIKONKRETNIJI PRIMERI
SUTRA PRAKTICAN RAD

BU STRASNO!

- Sta je React?
- Cemu sluzi?

“

“JavaScript biblioteka za pravljenje korisnickog interfejsa”

Zasto se kompanije odlucuju za React?

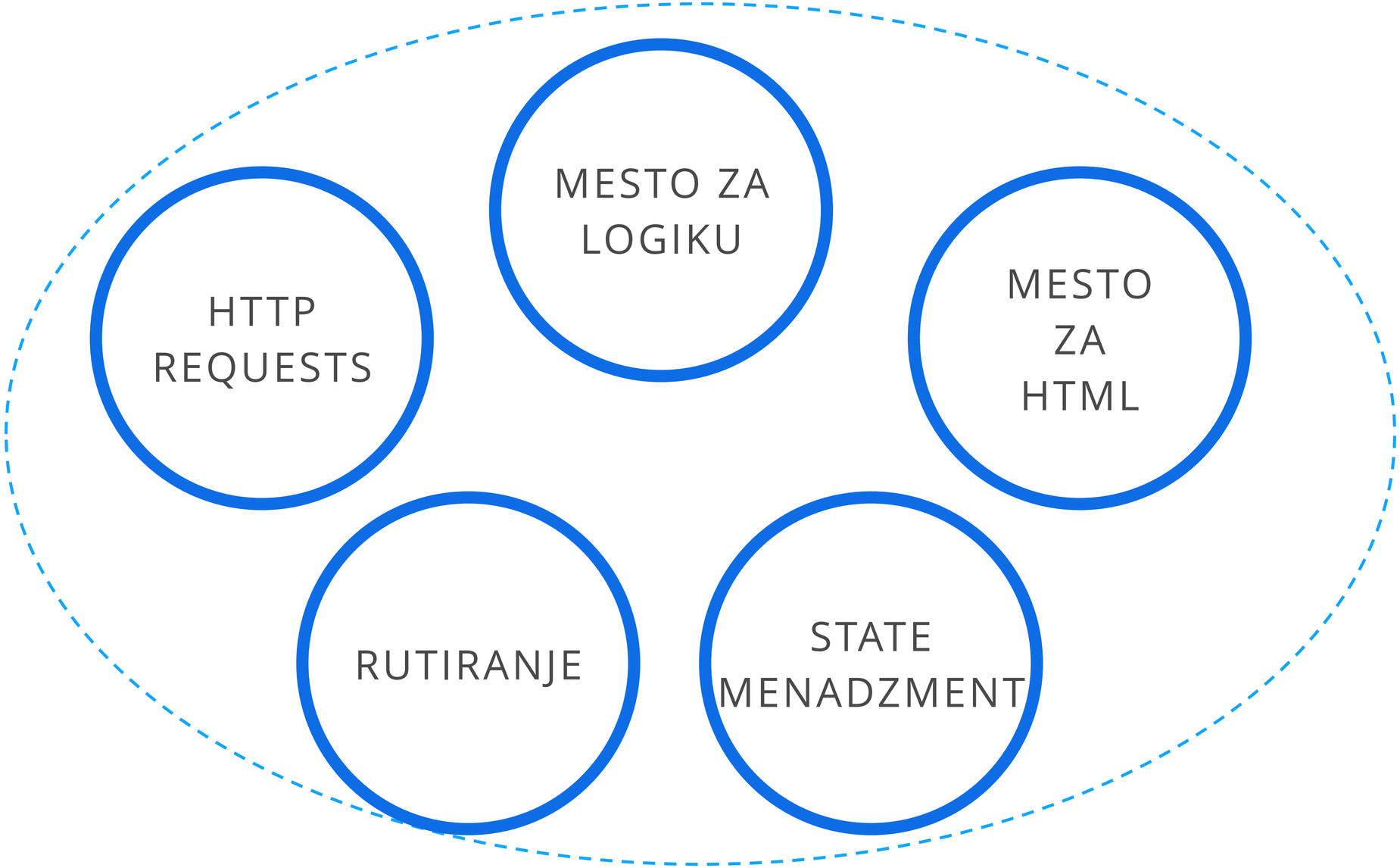
GOOGLAJTE

Koja je razlika izmedju Reacta i Angulara?

Sta je Framework?

Koncepti koji cine jedan front end framework

FRAMEWORK


MESTO ZA LOGIKU
HTTP REQUESTS
MESTO ZA HTML
RUTIRANJE
STATE MENADZMENT

SPA(SINGLE PAGE APLICATION)

Kako ja da iskoristim ovo da dobijem posao i zaradim neke pare?!

UDEMY

KAKO IZGLEDA REACT APLIKACIJA?

```
ReactDOM.render(
  <h1>Hello, world!</h1>,
  document.getElementById('root')
);

<html>
    <head>
    </head>
    <body>
        <div id="root"></div>
    </body>
</html>
```

Hello, world!

KOMPONENTA

KOMPONENTA

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1. Function component
2. Class component

```
function Welcome (props) {
  return <h1>Hello, {props.name}</h1>;
}
```

```
class Welcome extends React.Component {
  render() {
    return <h1>Hello, {this.props.name}</h1>;
  }
}
```

```
class Welcome extends React.Component {
  render() {
    return <h1>Hello, {this.props.name}</h1>;
  }
}

ReactDOM.render(
  <Welcome name='World' />,
  document.getElementById('root')
);

<html>
    <head>
    </head>
    <body>
        <div id="root"></div>
    </body>
</html>
```

```
function Welcome (props) {
  return <h1>Hello, {props.name}</h1>;
}

ReactDOM.render(
  <Welcome name="world"/>,
  document.getElementById('root')
);

<html>
    <head>
    </head>
    <body>
        <div id="root"></div>
    </body>
</html>
```

Hello, world!

STA SU PROPS?

STA JE JSX?

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```
    return (
      <div style={{border: "1px solid green", height: "200px"}}>
        <h1>This is a home page body</h1>
      </div>
      )
  }
}
class Header extends React.Component {
  render () {
    return (
      <div style={{border: "1px solid red"}}>
        <h1>This is a header</h1>
      </div>
      )
  }
}
class App extends React.Component {
  render () {
    return (
      <div>
        <Header />
        <HomePage />
        <Footer />
      </div>
    )
  }
}

ReactDOM.render(
  <App />,
  document.getElementById('root')
);

<html>
    <head>
    </head>
    <body>
        <div id="root"></div>
    </body>
</html>
```

This is a header

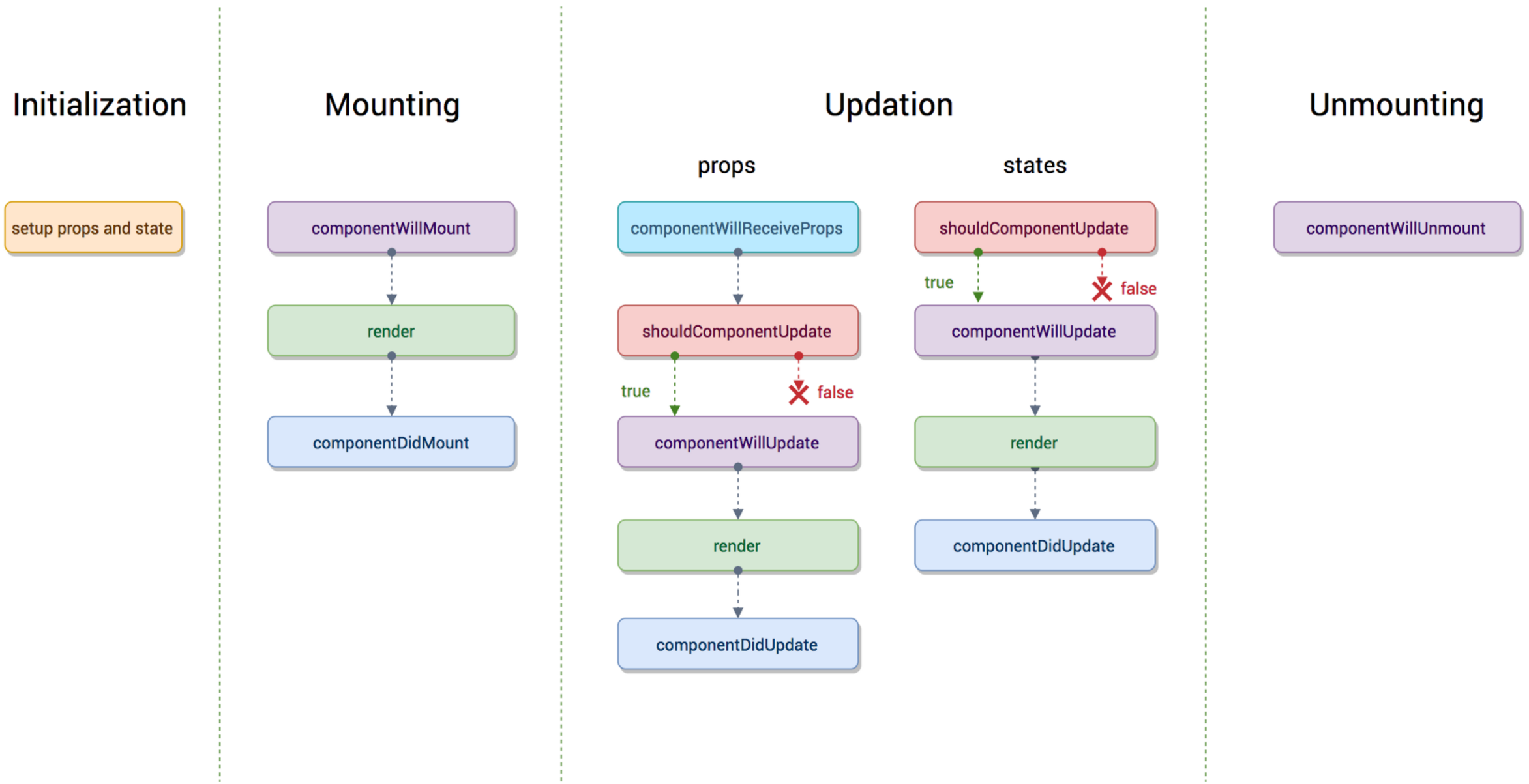
This is a home page body

This is a footer

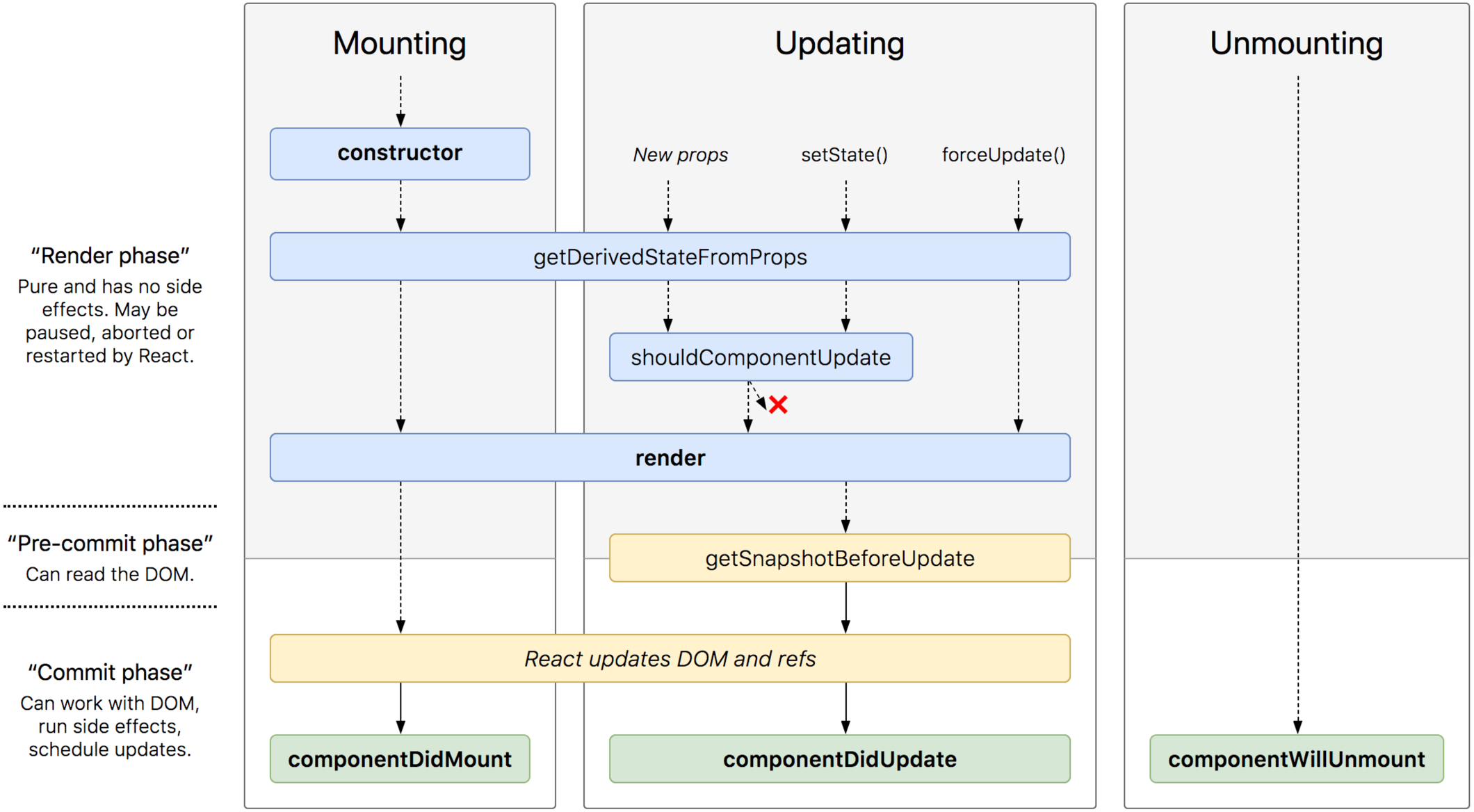
Lifecycle methods

- componentDidMount()
- componentWillReceiveProps()
- componentWillUnmount()

- shouldComponentUpdate()
- componentDidUpdate()
- getDerivedStateFromProps()


Initialization
setup props and state
Mounting
componentWillMount
render
componentDidMount
Updation
props
componentWillReceiveProps
shouldComponentUpdate
true
false
componentWillUpdate
render
componentDidUpdate
states
shouldComponentUpdate
true
false
componentWillUpdate
render
componentDidUpdate
Unmounting
componentWillUnmount

React version 16.4 Language en-US



```
class Clock extends React.Component {
  constructor(props) {
    super(props);
    this.state = {date: new Date()};
  }

  componentDidMount() {
    this.timerID = setInterval(
      () => this.tick(),
      1000
    );
  }

  componentWillUnmount() {
    clearInterval(this.timerID);
  }

  tick() {
    this.setState({
      date: new Date()
    });
  }

  render() {
    return (
      <div>
        <h1>Hello, world!</h1>
        <h2>It is {this.state.date.toLocaleTimeString()}.</h2>
      </div>
    );
  }
}

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

STATE MANAGEMENT

```
class DropDown extends React.Component {
  constructor(props) {
    super(props);
    this.state = {open: true};
  }

  render() {
    return (
      <div>
        <h1>Hello, world!</h1>
        <h2>Dropdown is {this.state.open ? 'opened' : 'closed'}.</h2>
      </div>
    );
  }
}

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

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Your contact import is ready

Connect with your contacts and never lose touch

Continue

More options

No pending invitations

Manage all

People you may know from Welltok, Inc.

See all

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Associate Software Developer at Wellto...
13 mutual connections
Connect

Nelson R.
Agile-Scrum Product Owner | SAFe PO-P...
11 mutual connections
Connect

Jesse D. Garlan...
Sr. Product Owner at Welltok, Inc.
9 mutual connections
Connect

Alumni you may know

See all

Nikola Radovano...
Php Web Developer
232 mutual connections
Connect

Milos Mihajlovic,...
Business Development...
276 mutual connections
Connect

Igor Radovic
UI Engineer at Grid Dynamics
204 mutual connections
Connect

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DEV TOOLS

Things to do

Add new item +

- [x] Inspect all the things
- [ ] Profit!!
- [ ] Profit!!

All Completed Remaining

Elements Network Sources Timeline Profiles Resources Audits Console NReact

```
▼ <Wrap more=["a",2,"c",…] str="thing" awesome=1>
  ▼ <div>
      <div style={position: "absolute", top: 20, left: 20, …}>this is an iframe</div>
    ▼ <Todos>
      ▼ <div style={fontSize: 20, fontFamily: "sans-serif", padding: 30, …}>
          <h1 style={margin: 0, fontSize: 25, marginBottom: 10}>Things to do</h1>
        ▶ <NewTodo onAdd=fn()>…</NewTodo>
        ▼ <TodoItems todos=[{},{},{}] filter="All" onToggleComplete=fn()>
          ▼ <ul style={listStyle: "none", textAlign: "left", margin: 0, …}>
            ▶ <TodoItem item={title: "Inspect all the things", completed: true, id: 10} onTogg
            ▶ <TodoItem item={title: "Profit!!", completed: false, id: 11} onToggle=fn()>…</Tc
            ▶ <TodoItem item={title: "Profit!!", completed: false, id: 12} onToggle=fn()>…</Tc
            </ul>
          </TodoItems>
        ▶ <Filter onSort=fn() onFilter=fn() filter="All">…</Filter>
          </div>
      </Todos>
    ▶ <OldStyle awesome=2>…</OldStyle>
    </div>
  </Wrap>
```

```
<TodoItem>                    ($r in the console)
Props read-only
▸ item: {…}
▸ onToggle: fn()
```

Search by Component Name

REACT HOOKS

```
▼<StyledWrapper theme={colors: {…}, focusColors: {…}, shadows: {…}, …
  ▼<div>
    <style>* { box-sizing: border-box; }</style>
   ▼<pure(StyleContext)>
    ▼<StyleContext>
     ▼<mapProps(mapProps(div)) theme={colors: {…}, focusColors: {…},
      ▼<mapProps(div) theme={colors: {…}, focusColors: {…}, shadows:
       ▼<div style={color: "#d9d9d9", fontFamily: "Arial, sans-serif
        ▼<Overlay left=0 top=0 width=933…>
         ▼<Broadcast channel="overlay" value={box: {…}, addLayer: fr
          ▼<div>
           ▼<Viewport box={left: 0, top: 0, width: 933, …}>
            ▼<Broadcast channel="viewport" value={left: 0, top: 0,
             ▼<KeyboardContext>
              ▼<getContext(mapProps(mapProps(div)))>
               ▼<mapProps(mapProps(div)) theme={colors: {…}, focu
                ▼<mapProps(div) theme={colors: {…}, focusColors:
                 ▼<div style={background: "#404040", position: "
                  ▼<getContext(mapProps(mapProps(div))) style={}
                   ▼<mapProps(mapProps(div)) style={} theme={col
                    ▼<mapProps(div) style={position: "relative"
                     ▼<div style={position: "relative", boxSizi
                      ▼<LayoutColumn>
                       ▼<mapProps(mapProps(PassThrough)) theme
                        ▼<mapProps(PassThrough) theme={colors
                         ▼<PassThrough style={display: "flex"
                          ▼<div style={display: "flex", flexD
                           ▶<LayoutCell component=ShouldUpda
                           ▶<LayoutCell component=ShouldUpda
                           ▶<LayoutCell component=ShouldUpda
                           ▶<LayoutCell component=ShouldUpda
                           ▶<LayoutCell component=ShouldUpda
                           ▼<LayoutCell component=ShouldUpda
                            ▼<mapProps(mapProps(PassThrough
                             ▼<mapProps(PassThrough) compone
                              ▼<PassThrough component=Shoul
                               ▼<pure(Button) keyboardFocus
                                ▼<Button keyboardFocus=tru
                                 ▼<ButtonShell keyboardFoc
                                  ▼<mapProps(mapProps(map
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                                      ▼<mapProps(mapProp
                                       ▼<mapProps(withP
                                        ▼<withProps(wit
                                         ▼<withHandler
```

1. Konfuzne klase
2. Optimizovanje kompajliranog koda
3. Ogromne komponente
4. Lakse deljenje logike izmedju komponenti

1. Konfuzne klase
2. Optimizovanje kompajliranog koda
3. Ogromne komponente
4. Lakse deljenje logike izmedju komponenti

```
componentDidMount() {
  this.fetchData(this.props.userId)
}

componentDidUpdate() {
  //after we udpate userId value we want to fetch new data
this.fetchData(this.props.userId)
}
```

```
useEffect(() => {
  this.fetchData(this.props.userId)
})
```

```
componentDidUpdate(prevProps, prevState) {
  if (prevState.userId !== this.state.userId) {
      this.fetchData(this.props.userId)
  }
}
```

```
useEffect(() => {
  this.fetchData(this.props.userId)
}, [userId]) // Only re-run the effect if userId changes
```

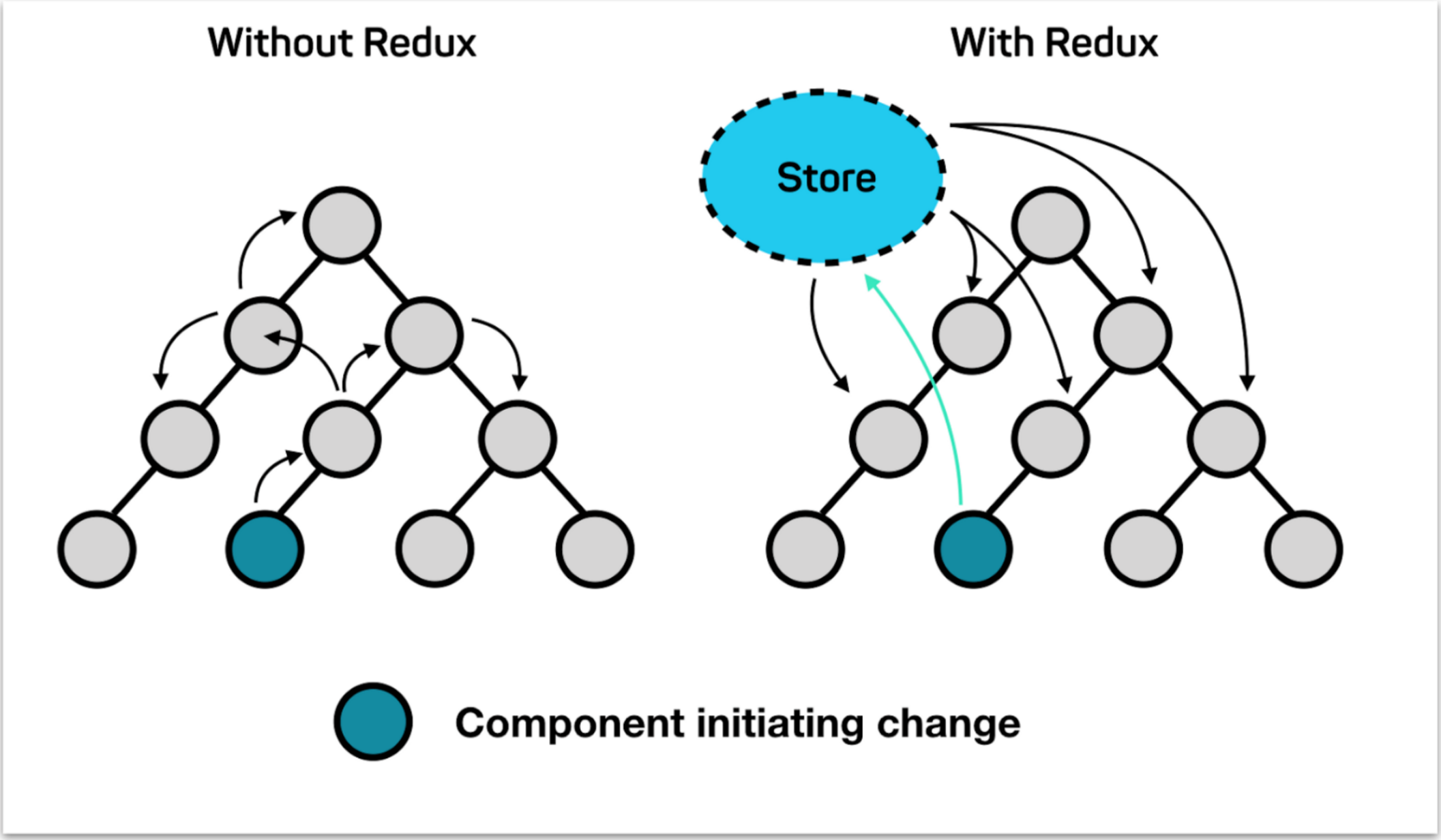
```
componentDidMount() {
  this.timer = setInterval(
      () => this.tick(),
      1000
  )
}

componentWillUnmount() {
  clearInterval(this.timer)
}
```

```
let timer;
useEffect(() => {
    timer = setInterval(
      () => this.tick(),
      1000
    )

    // we return a cleanup function
    return () => {
        clearInterval(timer)
    }
})
```

```
import React, { useState } from 'react';

function ExampleStateHook() {
  const [isOn, setIsOn] = useState(false);

  return (
    <div>
      <p>{`Lights are ${isOn ? 'on' : 'off'}`}</p>
      <button onClick={() => setIsOn(true)}>
        Turn On
      </button>
      <button onClick={() => setIsOn(false)}>
        Turn off
      </button>
    </div>
  );
}

export default ExampleStateHook
```

```
function FriendStatusWithCounter(props) {
  const [count, setCount] = useState(0);
  useEffect(() => {
    document.title = `You clicked ${count} times`;
  });

  const [isOnline, setIsOnline] = useState(null);
  useEffect(() => {
    function handleStatusChange(status) {
      setIsOnline(status.isOnline);
    }

    ChatAPI.subscribeToFriendStatus(props.friend.id, handleStatusChange);
    return () => {
      ChatAPI.unsubscribeFromFriendStatus(props.friend.id,
handleStatusChange);
    };
  });
  // ...
}
```

REDUX


Without Redux
With Redux
Store
Component initiating change

REACT NATIVE

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