



SOLID JS

Simple and performant reactivity for building user interfaces.

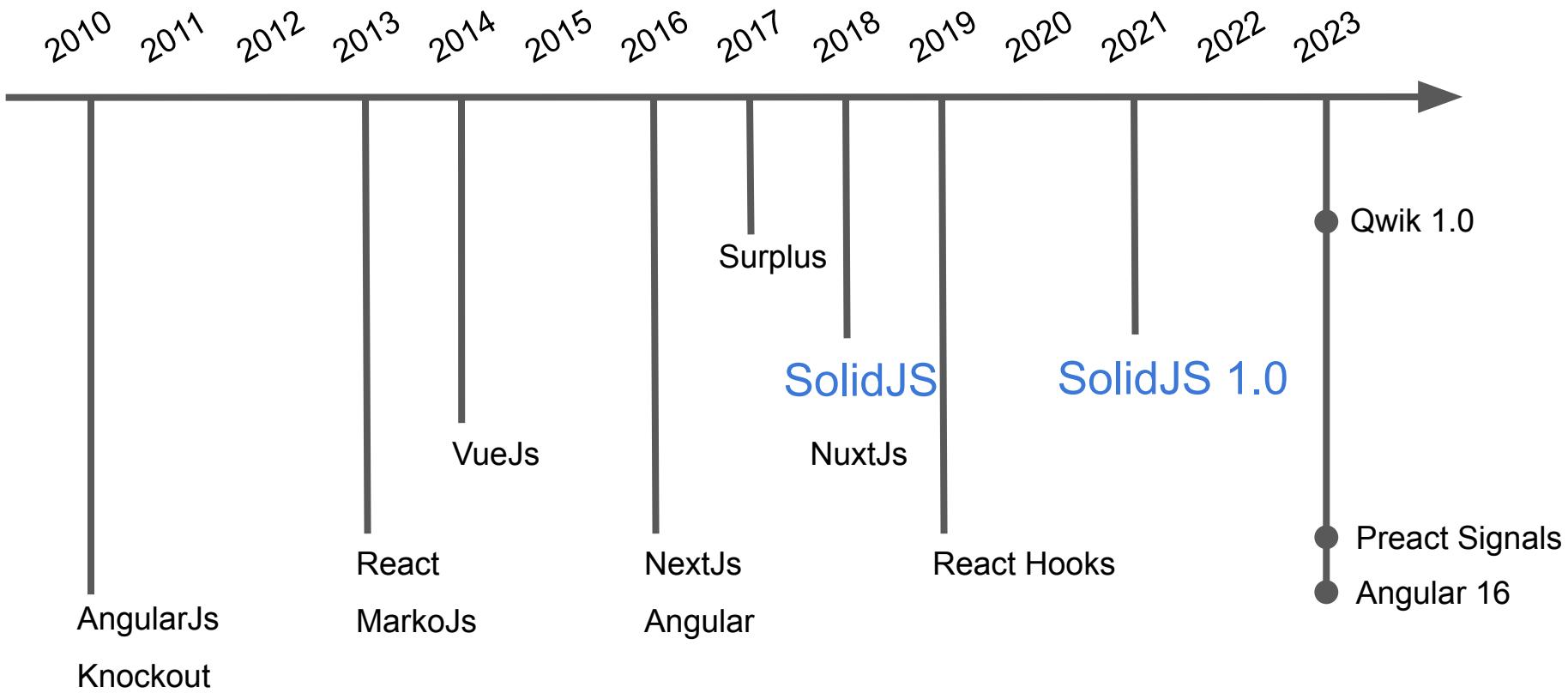




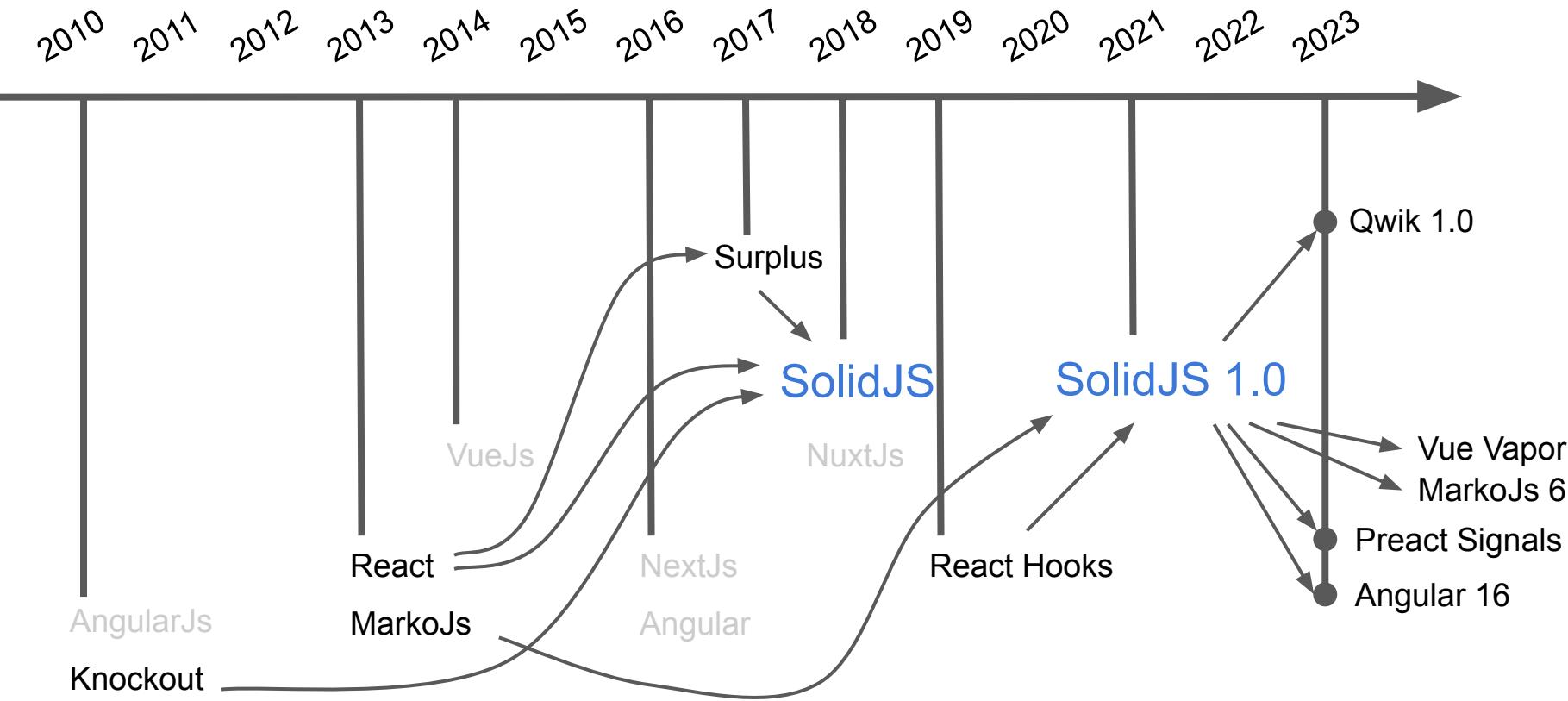
Nawfel
Bengherbia
Agile Web Developer

[sf≡ir]

Timeline



Influences de SolidJS



Ça ressemble à quoi ?

The diagram illustrates a code editor interface for a Solid.js application named "main.jsx". The code defines a "CountingComponent" that uses a signal to update its state every 1000ms. The component's output is displayed in the "Result" tab.

Components: A curved arrow points from the "Components" label to the opening brace of the "CountingComponent" function.

Signals: Two curved arrows point from the "Signals" label to the creation of a signal ("createSignal(0)") and its use ("count()") within the component's logic.

JSX: A curved arrow points from the "JSX" label to the return statement that generates the component's output as a string.

```
main.jsx +  Display Errors
1 import { render } from "solid-js/web";
2 import { onCleanup, createSignal } from "solid-js";
3
4 const CountingComponent = () => {
5   const [count, setCount] = createSignal(0);
6   const interval = setInterval(
7     () => setCount(count => count + 1),
8     1000
9   );
10  onCleanup(() => clearInterval(interval));
11  return <div>Count value is {count()}</div>;
12};
13
14 render(() => <CountingComponent />, document.getElementById("app"));
```

Result

Output

Count value is 78

Avantages de SolidJS

- JSX
- Patterns simples et explicites
- Signals
 - Gestion simple du state
 - Rapidité
- 7,9KB gzipped
- SSR optimisé

Avantages de SolidJS

- JSX
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Now that we're not surprised by virtual DOM anymore and it is being adopted by other frameworks and libraries, we can focus on examining React's true strengths: **composition, unidirectional data flow, freedom from DSLs, explicit mutation and static mental model.**

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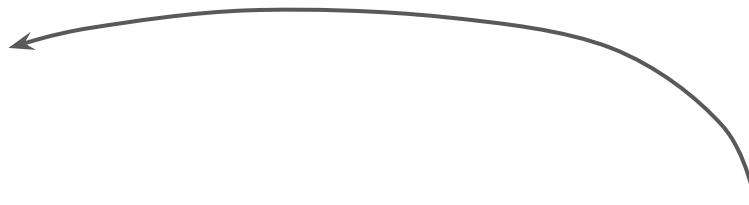
Gestion de state (Exemple 1)

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

export default function Counter() {
  const [count, setCount] = useState(0);

  function handleClick() {
    setCount(count + 1);
  }

  return (
    <button onClick={handleClick}>
      You pressed me {count} times
    </button>
  );
}
```

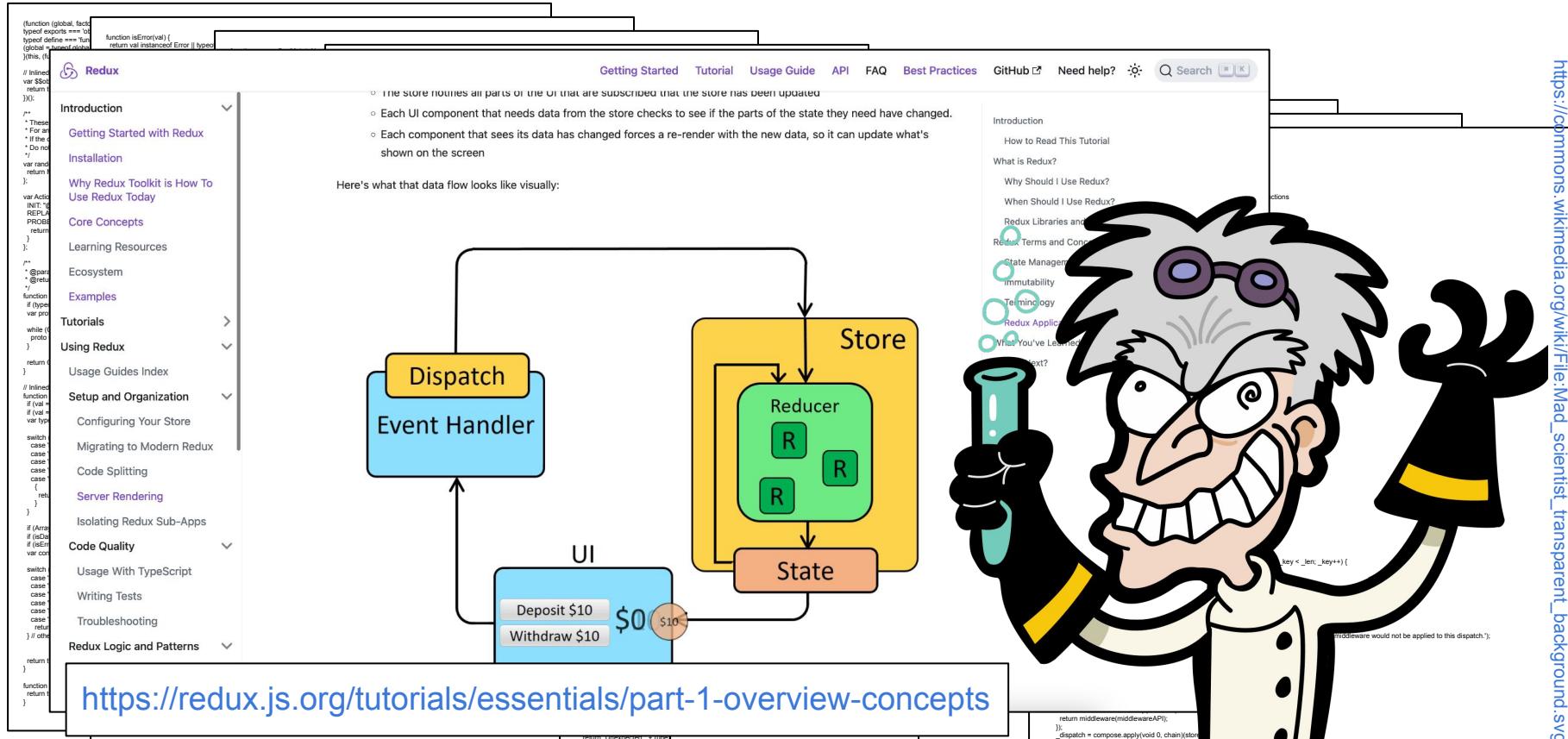


Comment rendre ce state global ?

Gestion de state (Exemple 1)

<https://www.unpkg.com/redux@4.2.1/dist/redux.js>

Gestion de state (Exemple 1)





<https://codesandbox.io/s/competent-frog-4kklt3?file=/src/features/counter/Counter.js>

Gestion de state

The diagram illustrates the flow of data from the UI to the Redux state and back through slices. It features a central blue box labeled 'UI' containing 'Deposit \$10' and 'Withdraw \$10' buttons, and a circular meter showing '\$0'. An arrow points from the UI to a yellow box labeled 'counterSlice.reducer'. Another arrow points from the UI to a green box labeled 'counterSlice.actions'. A third arrow points from the UI to a blue box labeled 'counterSlice.reducer'. The background shows a dark interface with code snippets and a sidebar with various Redux-related topics.

JS Counter.js

```
(function(global, facts) {
    "use strict";
    if (typeof exports === 'object' && typeof module !== 'undefined') {
        module.exports = facts;
    } else {
        global.facts = facts;
    }
})({});
```

```
function isError(val) {
    return val.message || val.error;
}
```

```
function Counter() {
    const count = useSelector(selectCount);
    const dispatch = useDispatch();
    return (
        <button onClick={() => dispatch(increment())}>
            You pressed me {count} times
        </button>
    );
}
```

```
const selectCount = createSelector(selectCount, () => ({
    value: count,
    status: 'idle'
}));
```

```
const increment = () => {
    return {
        type: 'INCREMENT',
        payload: 1
    };
};
```

```
const slice = createSlice({
    name: 'counter',
    initialState: {
        value: 0,
        status: 'idle'
    },
    reducers: {
        increment: (state) => {
            state.value += 1;
        }
    }
});
```

```
export const selectCount = (state) => state.counter.value;
```

```
export default slice.reducer;
```

case
case
case
if
return
}

if (err)
if (err)
if (err)
var con
switch
case
case
case
case
case
case
return
}

return
}

function return

Code Splitting

Server Rendering

Isolating Redux Sub-Apps

Code Quality

Usage With TypeScript

Writing Tests

Troubleshooting

Redux Logic and Patterns

Structuring Reducers

Reducing Boilerplate

if (unexpectedKeys.length > 0)
 return 'Unexpected ' + (unexpectedKeys[0] || one of the known reducer keys);
});

JS counterSlice.js

```
import { createSlice } from '@reduxjs/toolkit';
```

```
const initialState = {
    value: 0,
    status: "idle"
};
```

```
export const counterSlice = createSlice({
    name: "counter",
    initialState,
    reducers: {
        increment: (state) => {
            state.value += 1;
        }
    }
});
```

```
export const { increment } = counterSlice.actions;
```

```
export const selectCount = (state) => state.counter.value;
```

```
export default counterSlice.reducer;
```

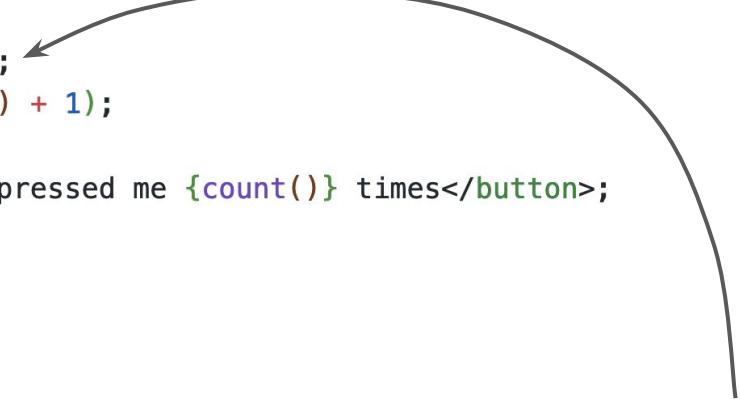
return middleware(middleware);
});
_dispatch = compose(apply(void 0, chain)(store.dispatch),
 replaceObjectWithObject2, objectSpread2)(store, {}, {});
_isDispatching = false;

Gestion de state (Exemple 1)

```
import { createSignal } from "solid-js";

function Counter() {
    const [count, setCount] = createSignal(1);
    const handleClick = () => setCount(count() + 1);

    return <button onClick={handleClick}>You pressed me {count()} times</button>;
}
```



Comment rendre ce state global ?

Gestion de state (Exemple 1)

```
import { createSignal } from "solid-js";

function Counter() {
    const [count, setCount] = createSignal(1);
    const handleClick = () => setCount(count() + 1);

    return <button onClick={handleClick}>You pressed me {count()} times</button>;
}
```



```
import { createSignal } from "solid-js";

const [count, setCount] = createSignal(1);
function Counter() {
    const handleClick = () => setCount(count() + 1);

    return <button onClick={handleClick}>You pressed me {count()} times</button>;
}
```



Gestion de state (Exemple 2)

```
function Counter() {
  let [count, setCount] = useState(0);

  useEffect(() => {
    let id = setInterval(() => {
      setCount(count + 1);
    }, 1000);
    return () => clearInterval(id);
  });

  return <h1>{count}</h1>;
}
```

Gestion de state (Exemple 2)

Overreacted

Making setInterval Declarative with React Hooks

February 4, 2019 • 56 min read

Translated by reader into: Français • 简体中文

If you played with React Hooks for more than a few hours, you probably ran into an intriguing problem: using `setInterval` just doesn't work as you'd expect.

In the words of Ryan Florence:

I've had a lot of people point to setInterval with hooks as some sort of egg on React's face

Honestly, I think these people have a point. It is confusing at first.

But I've also come to see it not as a flaw of Hooks but as a mismatch between the `React` programming model and `setInterval`. Hooks, being closer to the React programming model than classes, make that mismatch more prominent.

There is a way to get them working together very well but it's a bit unintuitive.

In this post, we'll look at how to make intervals and Hooks play well together, why this solution makes sense, and which new capabilities it can give you.

Disclaimer: this post focuses on a pathological case. Even if an API simplifies a hundred use cases, the discussion will always focus on the one that got harder.

If you're new to Hooks and don't understand what the fuss is about, check out this [introduction](#) and the [documentation](#) instead. This post assumes that you worked with Hooks for more than an hour.

Just Show Me the Code

Without further ado, here's a counter that increments every second:

```
import React, { useState, useEffect, useRef } from 'react';
function Counter() {
  let [count, setCount] = useState(0);

  useEffect(() => {
    // Your custom logic here
    setCount(count + 1);
  }, [0]);

  return <h1>{count}</h1>;
}
```

(Here's a [CodeSandbox demo](#))

This `useInterval` isn't a built-in React Hook; it's a `custom Hook` that I wrote:

```
import React, { useState, useEffect, useRef } from 'react';
function useInterval(callback, delay) {
  const savedCallback = useRef();
  // Remember the latest callback.
  useEffect(() => {
    savedCallback.current = callback;
  }, [callback]);
  // Set up the interval.
  useEffect(() => {
    function tick() {
      savedCallback.current();
    }
    if (delay !== null) {
      let id = setInterval(tick, delay);
      return () => clearInterval(id);
    }
  }, [delay]);
}
```

(Here's a [CodeSandbox demo](#) in case you missed it earlier.)

My `useInterval` Hook sets up an interval and clears it after unmounting. It's a combo of `setInterval` and `clearInterval` tied to the component lifecycle.

Feel free to copy paste it in your project or put it on npm.

If you don't care how this works, you can stop reading now! The rest of the blog post is for folks who are ready to take a deep dive into React Hooks.

Wait What?! 😱

I know what you're thinking:

Dan, this code doesn't make any sense. What happened to "just JavaScript"? Admit that React has jumped the shark with Hooks!

I thought this too but I changed my mind, and I'm going to change yours. Before explaining why this code makes sense, I want to show off what it can do.

Why `useInterval()` Is a Better API

To remind you, my `useInterval` Hook accepts a function and a delay:

```
useInterval(() => {
  ...
}, 1000);
```

This looks a lot like `setInterval`:

```
setInterval(() => {
  ...
}, 1000);
```

So why not just use `setInterval` directly?

This may not be obvious at first, but the difference between the `setInterval` you know and my `useInterval` Hook is that its arguments are "dynamic".

I'll illustrate this point with a concrete example.

Let's say we want the interval delay to be adjustable:

17

Delay: 1000

While you wouldn't necessarily control the delay with an `input`, adjusting it dynamically can be useful — for example, to poll for some AJAX updates less often while the user has switched to a different tab.

So how would you do this with `setInterval` in a class? I ended up with this:

```
class Counter extends React.Component {
  state = {
    count: 0,
    delay: 1000,
  };

  componentDidMount() {
    this.interval = setInterval(this.tick, this.state.delay);
  }

  componentDidUpdate(prevProps, prevState) {
    if (prevState.delay !== this.state.delay) {
      clearInterval(this.interval);
      this.interval = setInterval(this.tick, this.state.delay);
    }
  }

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

  tick = () => {
    this.setState({
      count: this.state.count + 1
    });
  }

  handleDelayChange = (e) => {
    this.setState({ delay: Number(e.target.value) });
  }

  render() {
    return (
      <h1>{this.state.count}</h1>
      <input value={this.state.delay} onChange={this.handleDelayChange} />
    );
  }
}
```

(Here's a [CodeSandbox demo](#))

This is not too bad!

What's the Hook version looking like?



```
function Counter() {
  let [count, setCount] = useState(0);
  let [delay, setDelay] = useState(1000);

  useInterval(() => {
    // Your custom logic here
    setCount(count + 1);
  }, delay);

  function handleDelayChange(e) {
    setDelay(Number(e.target.value));
  }

  return <h1>{count}</h1>;
}
```

```
return (
  <h1>{count}</h1>
  <input value={delay} onChange={handleDelayChange} />
);
```

(Here's a [CodeSandbox demo](#))

Yeah, that's all it takes.

Unlike the class version, there is no complexity gap for "upgrading" the `useInterval` Hook example to have a dynamically adjusted delay:

```
// Constant delay
useInterval(() => {
  setCount(count + 1);
}, 1000);

// Adjustable delay
useInterval(() => {
  setCount(count + 1);
}, 5000);
```

When `useInterval` Hook sees a different delay, it sets a new interval.

Instead of writing code to set and clear the interval, I can just pass in a particular delay — and our `useInterval` Hook does the rest.

What if I want to temporarily pause my interval? I can do that too:

```
const [delay, setDelay] = useState(1000);
const isRunning, setIsRunning = useState(true);

useInterval(() => {
  setCount(count + 1);
}, isRunning ? delay : null);
```

(Here's a [demo](#))

This is what gets me excited about Hooks and React all over again: they let us replace the existing imperative APIs and create declarative APIs instead. Just like with rendering, we can describe what we want to happen in time simultaneously instead of carefully issuing commands.

I hope by this you're sold on `useInterval()` Hook because it's just as simple as using `setInterval` but when we're doing it from a component.

But why is using `setInterval()` and `clearInterval()` so bad? Let's go back to our counter example and try to implement it with those.

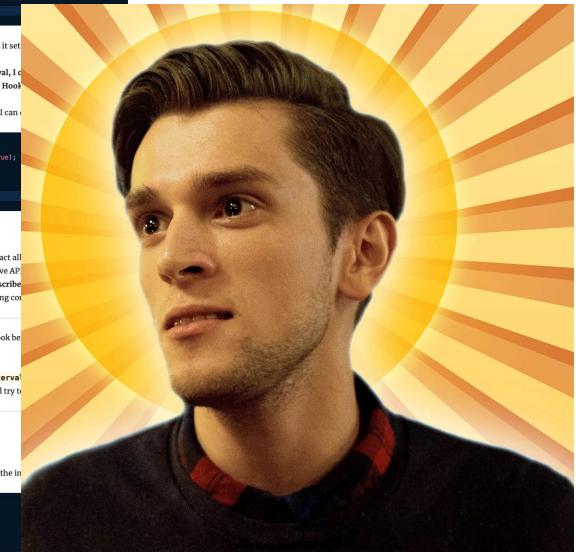
First Attempt

I'll start with a simple example that just renders the interval delay.

```
function Counter() {
  const [count, setCount] = useState(0);
  return <h1>{count}</h1>;
}
```

Now I want an interval that increments it every second. It's a `side effect` that needs cleanup so I'm going to use `useEffect()` and return the cleanup function:

+ les autres $\frac{2}{3}$ de l'article



Gestion de state (Exemple 2)

```
function Counter() {
  const [count, setCount] = useState(0);

  useEffect(() => {
    setCount(count + 1);
  }, [1000]);

  return <h1>{count}</h1>;
}

function useInterval(callback, delay) {
  const savedCallback = useRef();

  useEffect(() => {
    savedCallback.current = callback;
  });

  useEffect(() => {
    function tick() {
      savedCallback.current();
    }

    let id = setInterval(tick, delay);
    return () => clearInterval(id);
  }, [delay]);
}
```

Il suffit de mettre des callbacks
dans des Refs





Gestion de state (Exemple 2)

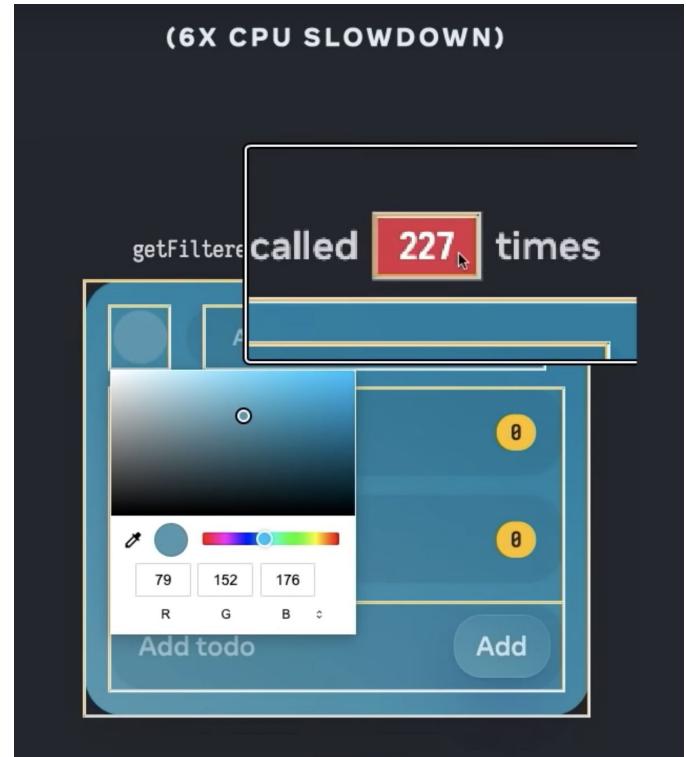
```
function Counter() {  
  const [count, setCount] = createSignal(1);  
  const timer = setInterval(() => setCount(count() + 1), 1000);  
  onCleanup(() => clearInterval(timer));  
  
  return <h1>{count()}</h1>;  
}
```



Gestion de state (Exemple 3)

```
function TodoList({ visibility, themeColor }) {  
  const [todos, setTodos] = useState(initialTodos);  
  const handleChange = todo => setTodos(todos => getUpdated(todos, todo));  
  const filtered = getFiltered(todos, visibility);  
  
  return (  
    <div>  
      <ul>  
        {filtered.map(todo => (  
          <Todo key={todo.id} todo={todo} onChange={handleChange} />  
        ))}  
      </ul>  
      <AddTodo setTodos={setTodos} themeColor={themeColor} />  
    </div>  
  );  
}
```

<https://www.youtube.com/watch?v=IGEMwh32soc>

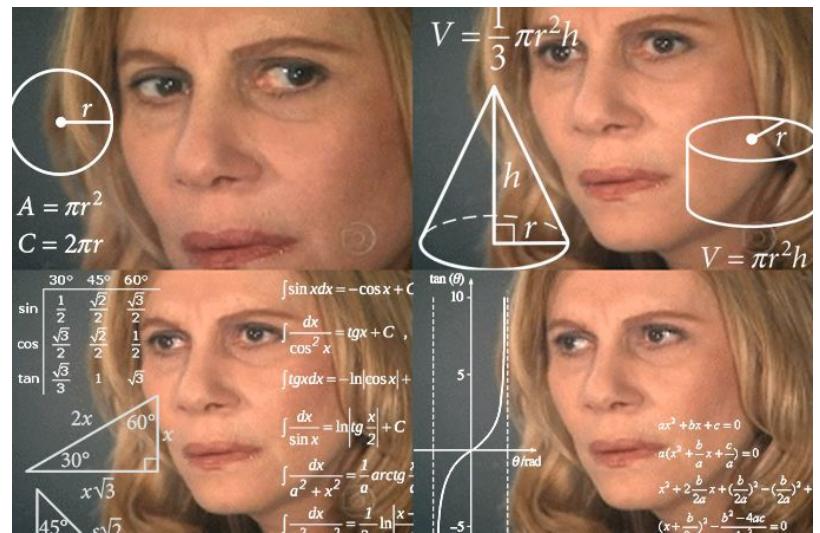


Gestion de state (Exemple 3)

```
const Todo = React.memo(UnmemoizedTodo);

function TodoList({ visibility, themeColor }) {
  const [todos, setTodos] = useState(initialTodos);
  const handleChange = useCallback(
    todo => setTodos(todos => getUpdated(todos, todo)),
    []
  );
  const filtered = useMemo(
    () => getFiltered(todos, visibility),
    [todos, visibility]
  );
  return (
    <div>
      <ul>
        {filtered.map(todo => (
          <Todo key={todo.id} todo={todo} onChange={handleChange} />
        ))}
      </ul>
      <AddTodo setTodos={setTodos} themeColor={themeColor} />
    </div>
  );
}
```

useMemo(), memo(),
useCallback(),
[Dependencies]



Gestion de state (Exemple 3)

React Forget
Annoncé en 2021
Pas encore sorti (en juin 2023)

```
function TodoList({ visibility, themeColor }) {
  const [todos, setTodos] = useState(initialTodos);
  const handleChange = todo => setTodos(todos => getUpdated(todos, todo));
  const filtered = getFiltered(todos, visibility);

  return (
    <div>
      <ul>
        {filtered.map(todo => (
          <Todo key={todo.id} todo={todo} onChange={handleChange} />
        ))}
      </ul>
      <AddTodo setTodos={setTodos} themeColor={themeColor} />
    </div>
  );
}
```



```
function TodoList({ visibility, themeColor }) {
  const [todos, setTodos] = useState(initialTodos);

  let hasVisibilityChanged, hasThemeColorChanged, hasTodosChanged, memoCache;

  if (hasVisibilityChanged || hasThemeColorChanged || hasTodosChanged) {
    const handleChange =
      memoCache[0] ||
      (memoCache[0] = todo => setTodos(todos => getUpdated(todos, todo)));

    let filtered, jsx_todos;
    if (hasVisibilityChanged || hasTodosChanged) {
      filtered = memoCache[1] = getFiltered(todos, visibility);
      jsx_todos = memoCache[2] = (<ul>{filtered.map(...)}</ul>);
    } else {
      filtered = memoCache[1];
      jsx_todos = memoCache[2];
    }

    const jsx_addTodo = hasThemeColorChanged
      ? (memoCache[3] = <AddTodo setTodos={setTodos} themeColor={themeColor} />)
      : memoCache[3];

    return (memoCache[4] = <div>{jsx_todos}{jsx_addTodo}</div>);
  } else {
    return memoCache[4];
  }
}
```



Gestion de state (Exemple 3)

```
export default function TodoList(props) {
  const [state, setState] = createStore({ todos: initialTodos });
  const handleChange = (todo) => updateTodo(todo, setState);

  return (
    <>
      <ul>
        <For each={getFiltered(state.todos, props.visibility)}>
          {(todo) => <Todo todo={todo} onChange={() => handleChange(todo)} />}
        </For>
      </ul>
      <AddTodo addTodo={addTodo(setState)} themeColor={props.themeColor} />
    </>
  );
}
```

<https://playground.solidjs.com/anonymous/80e0c4b5-705e-4abd-9b33-e5ced64d52bf>



Ryan Carniato
@RyanCarniato · [Follow](#)



This is pretty accurate. I made the demo in [@solid_js](#). I had a hard time showing the updates because so little updates in Solid.

I realized partway I could just remove the `createMemo` and it still worked granularly.

No memo. No Compiler. No problem. 😊

playground.solidjs.com/?hash=-9407075...



Evan You @youyuxi

React Forget is cool... but what if other frameworks already do that by default?

I re-created the TodoList demo in [@Huxpro](#)'s talk using idiomatic Vue 3: sfc.vuejs.org/#eyJBcHAudnVII...

6:47 AM · Dec 10, 2021



67 [Reply](#) [Copy link](#)

[Read 3 replies](#)

<https://twitter.com/RyanCarniato/status/1469181959955836931>

Avantages de SolidJS

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- Patterns simples et explicites
- Signals
 - Gestion simple du state
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- 7,9KB gzipped
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Local State

```
function Counter() {  
  const [count, setCount] = createSignal(0);  
  return <div>{count()}</div>  
}
```



Global State

```
const [count, setCount] = createSignal(0);  
function Counter() {  
  return <div>{count()}</div>  
}
```



<https://dev.to/this-is-learning/making-the-case-for-signals-in-javascript-4c7i>

	Solid	Autres		
select row highlighting a selected row. (5 warmup runs). 16 x CPU slowdown.	13.1 ± 1.0 (1.37)	22.1 ± 1.3 (2.31)	15.6 ± 1.0 (1.64)	21.9 ± 1.6 (2.30)
swap rows swap 2 rows for table with 1,000 rows. (5 warmup runs). 4 x CPU slowdown.	28.7 ± 0.5 (1.16)	29.0 ± 0.8 (1.17)	166.0 ± 1.0 (6.71)	160.9 ± 1.0 (6.50)
remove row removing one row. (5 warmup runs). 4 x CPU slowdown.	39.6 ± 1.1 (1.08)	45.8 ± 1.1 (1.20)	42.3 ± 1.2 (1.10)	43.6 ± 1.4 (1.14)
create many rows creating 10,000 rows. (5 warmup runs with 1k rows).	420.5 ± 3.5 (1.06)	475.3 ± 1.5 (1.19)	474.2 ± 1.9 (1.19)	634.0 ± 2.4 (1.59)

https://krausest.github.io/js-framework-benchmark/2023/table_chrome_114.0.5735.90.html

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Local State

```
function Counter() {  
  const [count, setCount] = createSignal(0);  
  
  return <div>{count()}</div>  
}
```



Global State

```
const [count, setCount] = createSignal(0);  
  
function Counter() {  
  return <div>{count()}</div>  
}
```



<https://dev.to/this-is-learning/making-the-case-for-signals-in-javascript-4c7i>

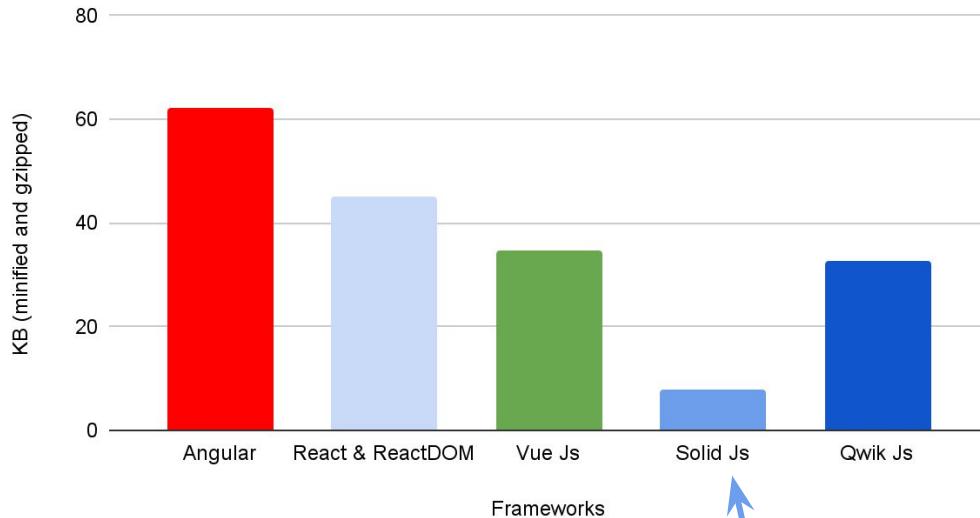
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https://krausest.github.io/js-framework-benchmark/2023/table_chrome_114.0.5735.90.html

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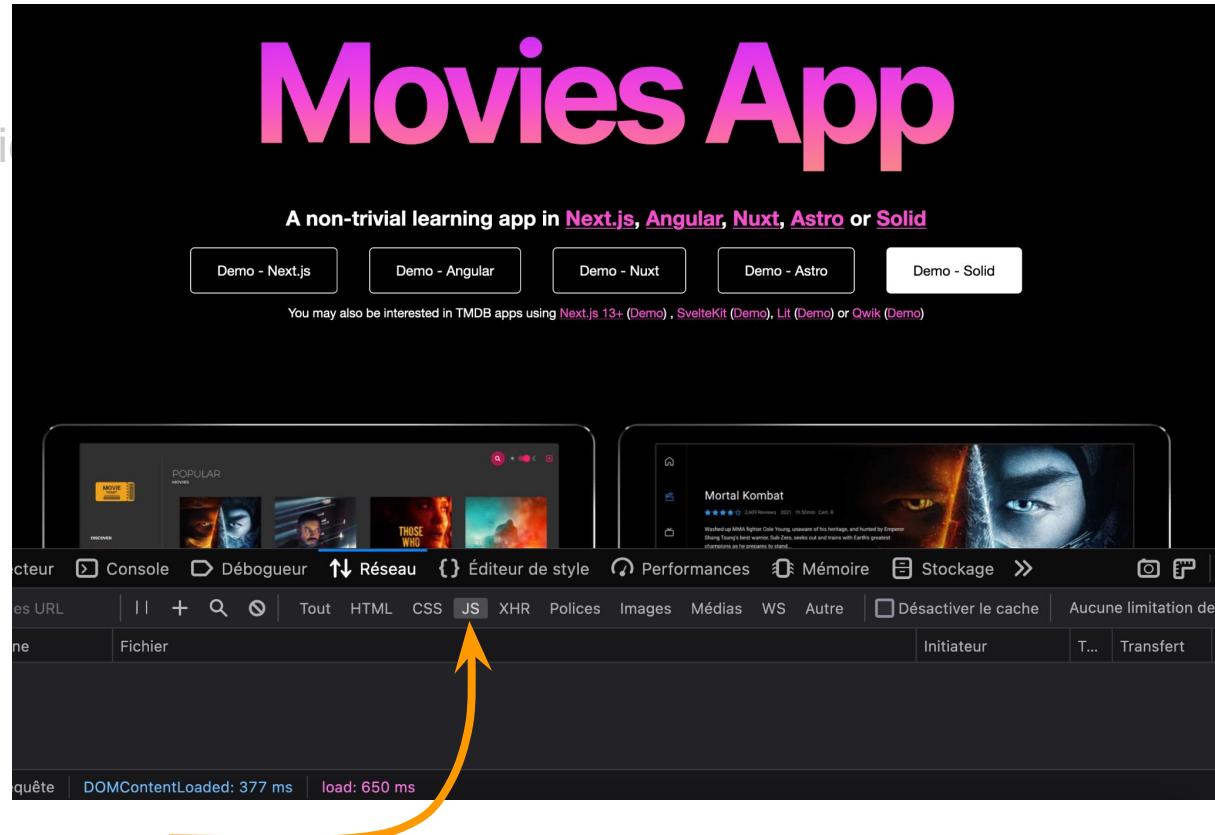
Tailles des frameworks selon bundlephobia.com



Avantages de SolidJS

<https://tastejs.com/movies/>

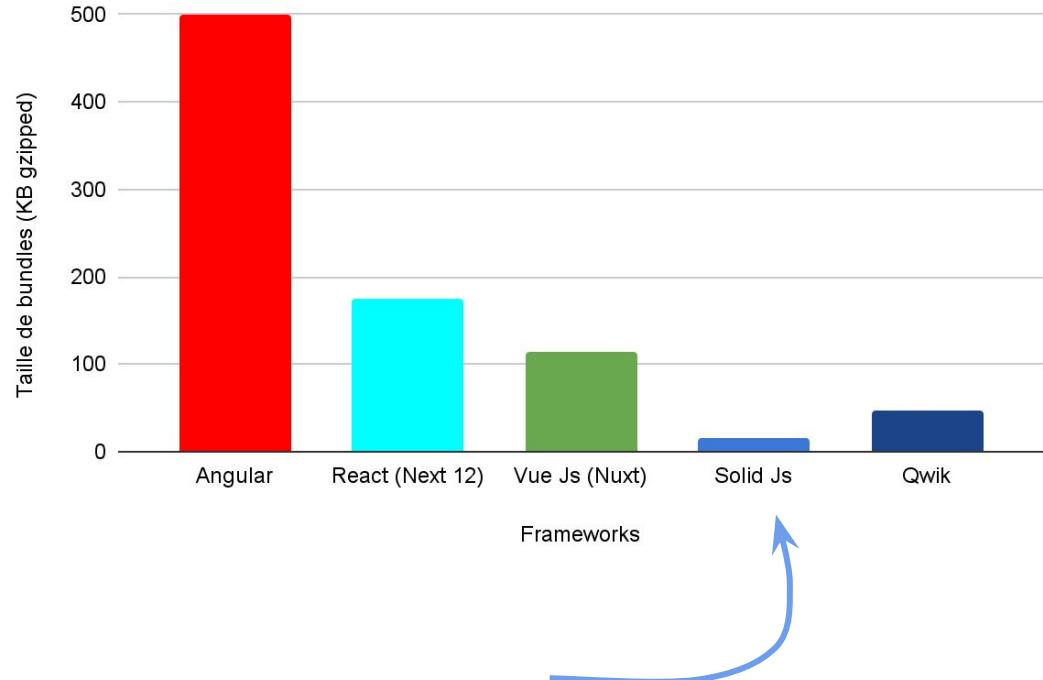
- JSX
- Patterns simples et explicatifs
- Signals
 - Gestion simple du state
 - Rapidité
- 7,9KB gzipped
- SSR optimisé



Avantages de SolidJS

- JSX
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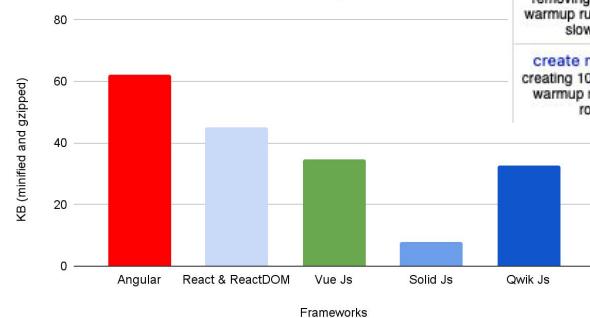
Tailles de bundles des appli. Movies App par framework



Avantages de SolidJS

- **JSX** React's true strengths: composition, unidirectional data flow, freedom from DSLs, explicit mutation and static mental model.
- Patterns simples et explicites
- Signals
 - Gestion simple du state
 - Rapidité
- 7,9KB gzipped
- SSR optimisé

Tailles des frameworks selon bundlephobia.com



Local State

```
function Counter() {  
  const [count, setCount] = createSignal(0);  
  return <div>{count()}</div>  
}
```



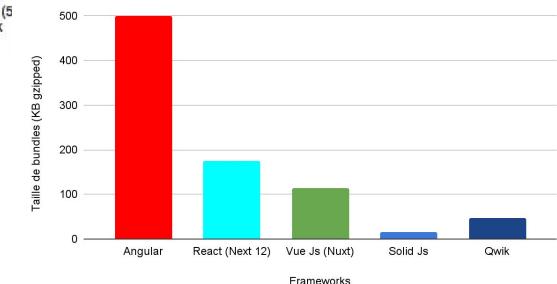
Global State

```
const [count, setCount] = createSignal(0);  
function Counter() {  
  return <div>{count()}</div>  
}
```

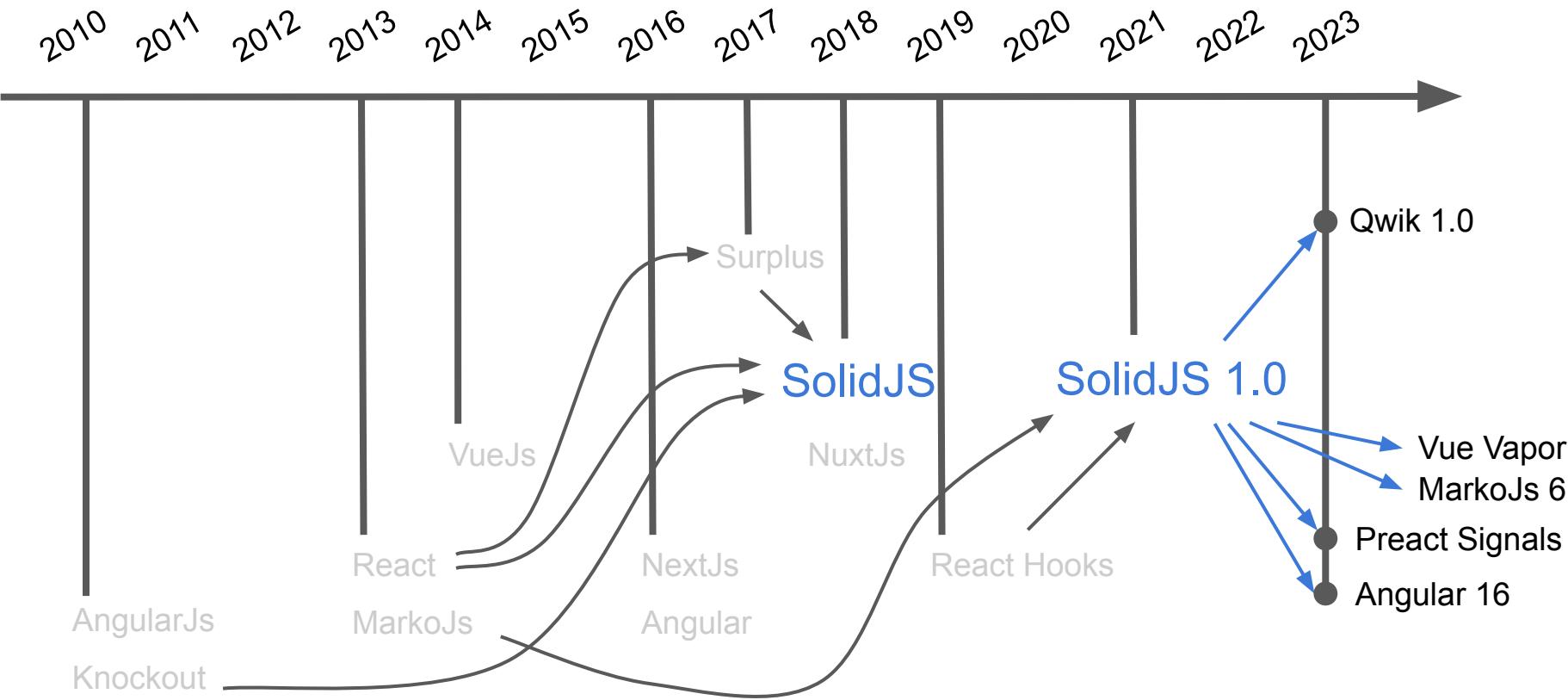


select row highlighting a selected row. (5 warmup runs). 16 x CPU slowdown.	13.1 ± 1.0 (1.37)	22.1 ± 1.3 (2.31)	15.6 ± 1.0 (1.64)	21.9 ± 1.6 (2.30)
swap rows swap 2 rows for table with 1,000 rows. (5 warmup runs). 4 x CPU slowdown.	28.7 ± 0.5 (1.16)	29.0 ± 0.8 (1.17)	166.0 ± 1.0 (6.71)	160.9 ± 1.0 (6.50)
remove row removing one row. (5 warmup runs). 4 x CPU slowdown.	39.6 ± 1.1 (1.03)	45.8 ± 1.1 (1.20)	42.3 ± 1.2 (1.10)	43.6 ± 1.4 (1.14)
create many rows creating 10,000 rows. (5 warmup runs with 1k rows).				

Tailles de bundles des appli. Movies App par framework



Influencés par SolidJS



Influencés par SolidJS

Angular v16 is here! 03/05/2023

<https://blog.angular.io/angular-v16-is-here-4d7a28ec680d>

Signals

```
@Component({
  selector: 'my-app',
  standalone: true,
  template: `
    {{ fullName() }} <button (click)="setName('John')">Click</button>
  `,
})
export class App {
  firstName = signal('Jane');
  lastName = signal('Doe');
  fullName = computed(() => `${this.firstName()} ${this.lastName()}`);

  constructor() {
    effect(() => console.log('Name changed:', this.fullName()));
  }
}
```



Influencés par SolidJS

2022 Year In Review - VueJs

<https://blog.vuejs.org/posts/2022-year-in-review>

Vapor Mode

Vapor Mode is an alternative compilation strategy that we have been experimenting with, inspired by Solid. Given the same Vue SFC, Vapor Mode compiles it into JavaScript output that is more performant, uses less memory, and requires less runtime support code compared to the current Virtual DOM based output. It is still in early phase, but here are some high level points:

- Vapor Mode is intended for use cases where performance is the primary concern. It is opt-in and does not affect existing codebases.
- At the very least, you will be able to embed a Vapor component subtree into any existing Vue 3 app. Ideally, we hope to achieve granular opt-in at the component level, which means freely mixing

Influencés par SolidJS

feat: useSignal() - Qwik 05/10/2022

<https://github.com/BuilderIO/qwik/pull/1363>

Signals

```
export default component$(() => {
  const count = useSignal(0); ←
```

```
  console.log("Render");
```

```
  return (
    <button
```

```
      onClick$={() => count.value++}>
```

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Points négatifs de SolidJS

- Communauté réduite
- Ressemble beaucoup à React
 - Pas motivant pour les gens qui n'aiment pas les patterns de React
 - Beaucoup des utilisateurs de React pensent que SolidJS c'est un peu la même chose
- Moins connu dans le monde de l'entreprise

Conclusion

Votez pour un framework simple et performant

[Votez pour SolidJS !](#)

