

Input Masking

with

Vue

Divya Sasidharan

Developer Advocate



0.00

0.01

0.12

1.23

12.34

123.45

1,234.56

123.45

12.34

1.23

0.12

0.01

0.00

\$ 0

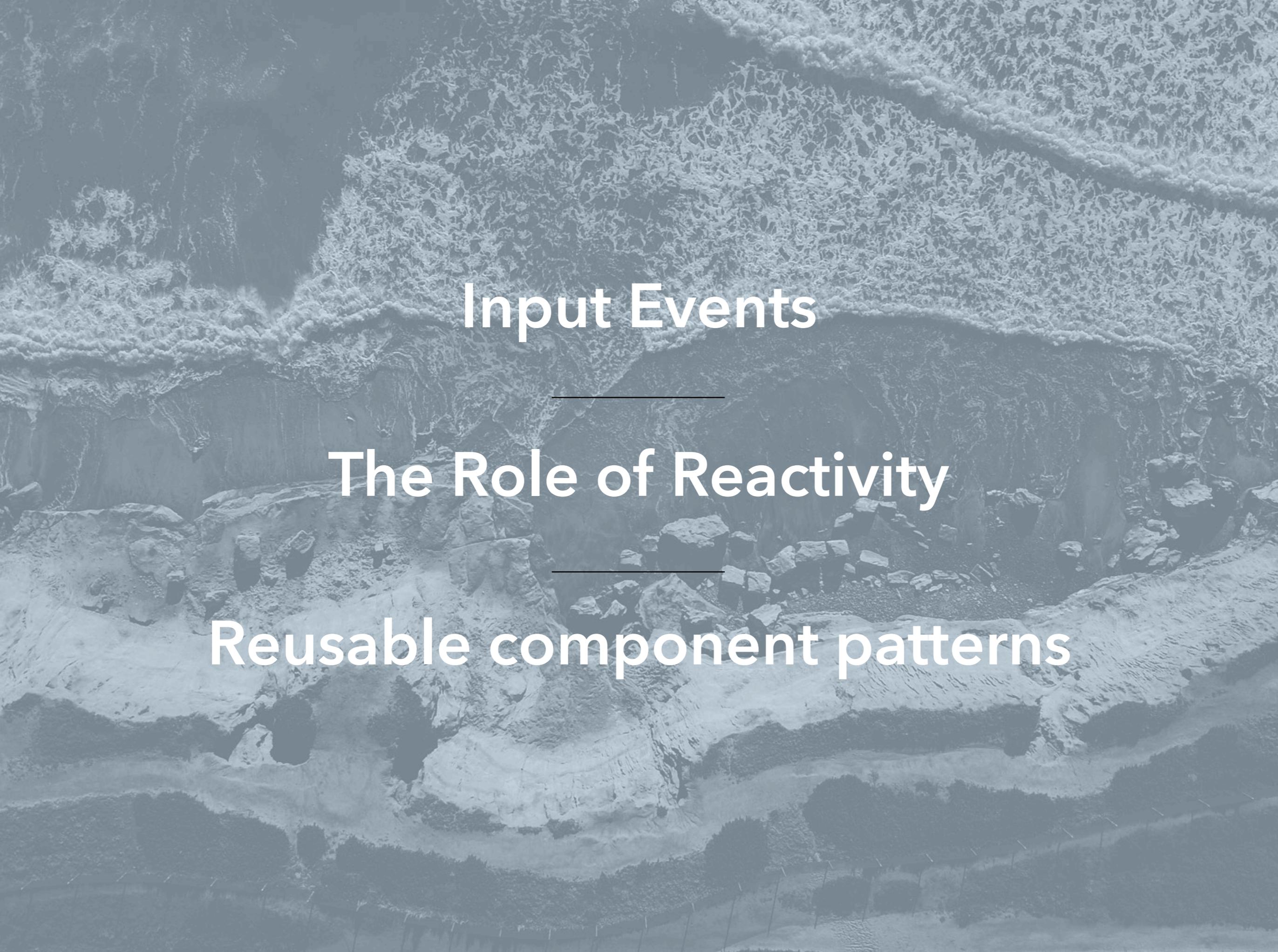
\$ 0

*I don't have any UX research to cite, but **anecdotally, I like it** when inputs that expect data in a specific format use an input mask.*

– Chris Coyier

Why use
this pattern?





Input Events

The Role of Reactivity

Reusable component patterns

0.00

Requirements

Allow only numbers

Add format for dollars and cents



Input Events

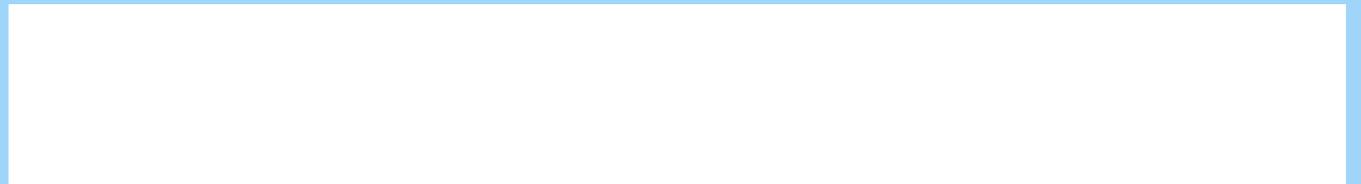
Patterns

Capturing Key Events

0.00

Patterns

Capturing Key Events



Patterns

Capturing Key Events

Paused in debugger



1

Patterns

Capturing Key Events

Paused in debugger



1

`oninput`

Patterns

Capturing Key Events

Paused in debugger



1

@input

```
<input
  type="text"
  id="currency"
  placeholder="0.00"
  @input="formatCashMoney"
  :value="formattedCashMoney"
/>
```

```
<input
  type="text"
  id="currency"
  placeholder="0.00"
  @input="formatCashMoney"
  :value="formattedCashMoney"
/>
```

```
<input
  type="text"
  id="currency"
  placeholder="0.00"

  v-model="formattedCashMoney"
/>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-model="formattedCashMoney"
  />
</template>
```

```
<script>
  export default {
    name: "v-dinero",
    data () {
      return {
        formattedCashMoney: null
      }
    }
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-model="formattedCashMoney"
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</template>
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      formatCashMoney() {
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  }
</script>
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Requirements

Allow only numbers

Add format for dollars and cents

```
<template>
  <input
    type="text"
    id="currency"
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<script>
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    name: "v-dinero",
    data () {
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    :value="formattedCashMoney"
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</template>

<script>
  export default {
    name: "v-dinero",
    data () {
      return {
        formattedCashMoney: null
      }
    },
    methods: {
      formatCashMoney(e) {
        var key = e.key
      }
    }
  }
</script>
```

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<template>
  <input
    type="text"
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  export default {
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    data () {
      return {
        formattedCashMoney: null
      }
    },
    methods: {
      formatCashMoney(e) {
        var key = e.key
        if (!/^\\d+\\/g.test(key)) {
          e.preventDefault()
        }
      }
    }
  }
</script>
```

Working Demo



keydown > keypress > input > keyup

```
<template>
  <input
    type="text"
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    :value="formattedCashMoney"
    @input="formatCashMoney"
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</template>

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Working Demo

Requirements

~~Allow only numbers~~

Add format for dollars and cents

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```
<script>
  import { wearMask } from "./utils"
  export default {
    name: "v-dinero",
    data () {
      return {
        formattedCashMoney: null
      }
    },
    methods: {
      formatCashMoney(e) {
        ...
        this.formattedCashMoney = wearMask(e.target.value)
      }
    }
  }
</script>
```

```
function wearMask (str) {  
  let num = decimalize(str)  
  num = separateByThousandths(num, ",")  
}
```

```
function decimalize(numstr) {  
  if (numstr.length > 1) {  
    let dp = numstr.substring(numstr.length-2, numstr.length)  
    let denom = numstr.substring(0, numstr.length - 2)  
    if (denom.substring(0,1) === "0") {  
      denom = denom.substring(1, denom.length)  
    }  
    return `${denom}.${dp}`  
  } else {  
    return `0.0${numstr}`  
  }  
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```
function separateByThousandths(str, delimiter) {  
  return str.replace(/\B(?=(\d{3})+(?! \d))/g, `${delimiter}`);  
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}
```

```
function decimalize(numstr) {  
  if (numstr.length > 1) {
```

```
    } else {
```

```
    }
```

```
}
```

```
function separateByThousandths(str, delimiter) {  
  return str.replace(/\B(?=(\d{3})+(?! \d))/g, `${delimiter}`);  
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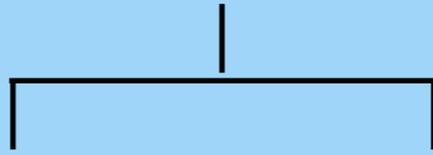
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    let dp = numstr.substring(numstr.length-2, numstr.length)  
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    if (denom.substring(0,1) === "0") {  
      denom = denom.substring(1, denom.length)  
    }  
    return `${denom}.${dp}`  
  } else {  
    return `0.0${numstr}`  
  }  
}
```

```
function separateByThousandths(str, delimiter) {  
  return str.replace(/\B(?=(\d{3})+(?!\d))/g, `${delimiter}`);  
}
```

```
function separateByThousands(str, delimiter) {  
    return str.replace(/\B(?=(\d{3})+(?!\d))/g, `${delimiter}`);  
}
```

```
function wearMask (str) {  
  let num = decimalize(str)  
  num = separateByThousands(num, ",")  
}
```

thousandths



1 2 3 4 5 6



cents

thousandths

1,234.56

cents



Working Demo

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @keydown="formatCashMoney"
  />
</template>
```

```
<script>
  import { wearMask } from "./utils"
  export default {
    name: "v-dinero",
    data () {
      return {
        formattedCashMoney: null
      }
    },
    methods: {
      formatCashMoney () {
        ...
        this.formattedCashMoney = wearMask(e.target.value)
      }
    }
  }
</script>
```

keydown > keypress > input > keyup

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```

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @keydown="validateInput"
    @input="formatInput"
  />
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    data () {
      return {
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      }
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<script>
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      return {
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    },
    methods: {
      validateInput(e) { ... }
      formatInput(e) {
        let unformatted = removeMask(e.target.value)
        this.formattedCashMoney = wearMask(e.target.value)
      }
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    if (denom.substring(0,1) === "0") {
      denom = denom.substring(1, denom.length)
    }
    return `${denom}.${dp}`
  } else {
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  }
}
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```
function separateByThousandths(str, delimiter) {
  return str.replace(/\B(?=(\d{3})+(?! \d))/g, `${delimiter}`);
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```

```
function removeMask(str) {
  return numstr.replace(/\D+/g, "");
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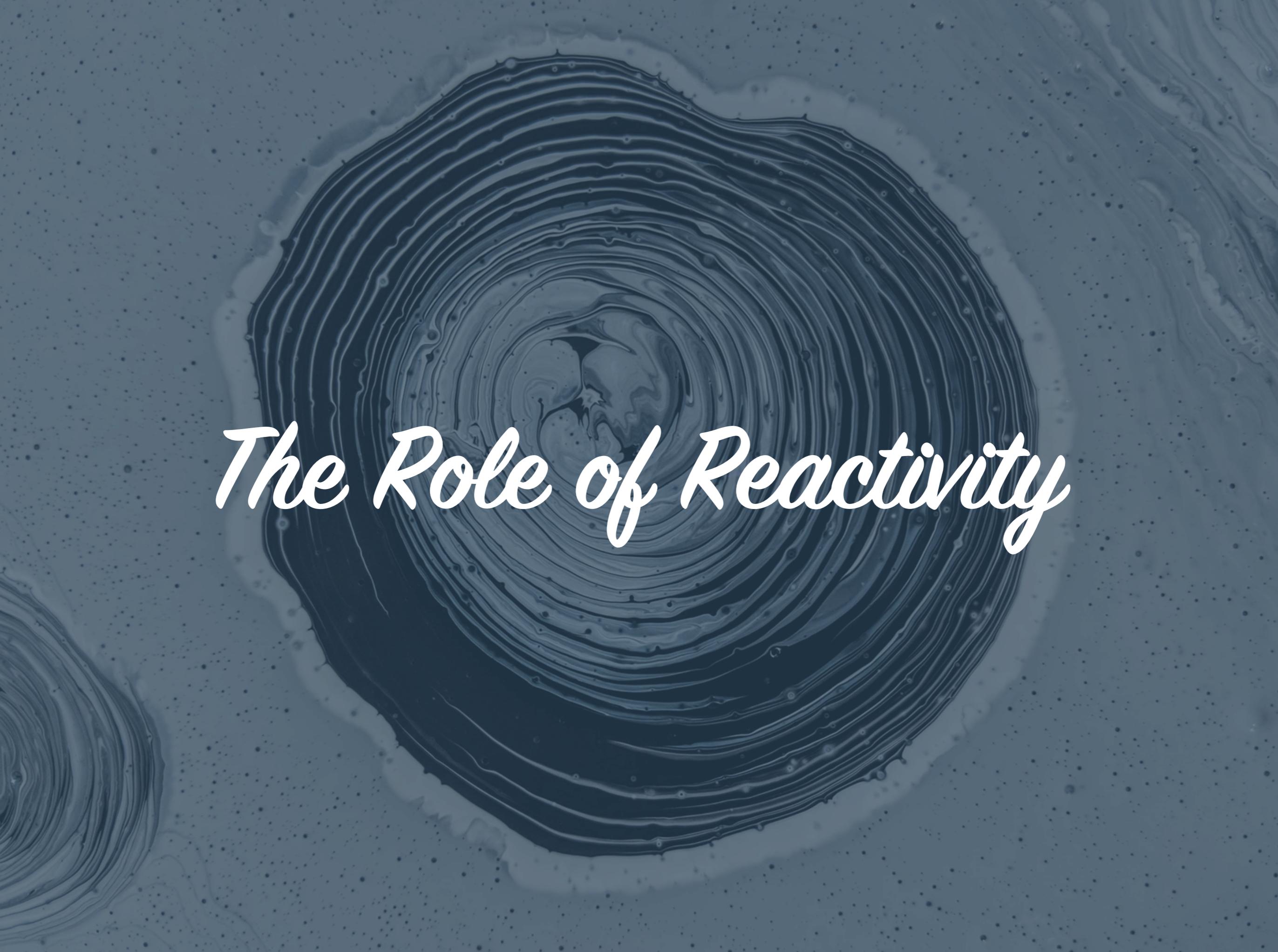
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    methods: {
      validateInput(e) { ... }
      formatInput(e) {
        let unformatted = removeMask(e.target.value)
        this.formattedCashMoney = wearMask(e.target.value)
      }
    }
  }
</script>
```

Requirements

~~Allow only numbers~~

~~Add format for dollars and cents~~



The Role of Reactivity

0.00

Reactivity

Methods

```
methods: {  
  onInput() {},  
  onKeyPress() {},  
  onKeyDown() {}  
  ...  
}
```

```
<input
  type="text"
  id="currency"
  :value="formattedCashMoney"
  @input="formatInput"
  @keydown="validateInput"
/>
```

```
<input
  type="text"
  id="currency"
  :value="formattedCashMoney"
  @input="formatInput"
  @keydown="validateInput"
/>
```

Reactivity

Computed Property

```
computed: {  
  currentMask() {  
    // format //  
  }  
}
```

```
<input
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    data () {
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        formattedCashMoney: null
      }
    },
    methods: {
      validateInput(e) { ... }
      formatInput(e) {
        let unformattedVal = removeMask(e.target.value)
        this.formattedCashMoney = wearMask(unformattedVal)
      }
    }
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @keydown="validateInput"
    @input="updateInput"
  />
</template>

<script>
  import { wearMask, removeMask } from "./utils"
  export default {
    name: "v-dinero",
    data () {
      return {
        unformatted: null
      }
    },
    methods: {
      validateInput(e) { ... }
      updateInput(e) {
        this.unformatted = removeMask(e.target.value)
      }
    },
    computed: {
      formattedCashMoney() {
        return wearMask(this.unformatted)
      }
    }
  }
</script>
```

```
<template>
  <input
    type="text"
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    return {
      unformatted: null
    }
  },
  methods: {
    validateInput(e) { ... }
    updateInput(e) {
      this.unformatted = removeMask(e.target.value)
    }
  },
  computed: {
    formattedCashMoney() {
      return wearMask(this.unformatted)
    }
  }
}
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @keydown="validateInput"
    @input="formatInput"
  />
</template>

<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero",
  data () {
    return {
      unformatted: null
    }
  },
  methods: {
    validateInput(e) { ... }
    updateInput(e) {
      this.unformatted = removeMask(e.target.value)
    }
  },
  computed: {
    formattedCashMoney() {
      return wearMask(this.unformatted)
    }
  }
}
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @keydown="validateInput"
    @input="updateInput"
  />
</template>

<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero",
  data () {
    return {
      unformatted: null
    }
  },
  methods: {
    validateInput(e) { ... }
    updateInput(e) {
      this.unformatted = removeMask(e.target.value)
    }
  },
  computed: {
    formattedCashMoney() {{
      return wearMask(this.unformatted)
    }}
  }
}
</script>
```

Working Demo

Reactivity

Computed Property

```
computed: {  
  currentMask() {  
    get() { ... }  
    set() { ... }  
  }  
}
```

```
<template>
  <input
    type="text"
    id="currency"
    :value="formattedCashMoney"
    @input="updateInput"
    @keydown="validateInput"
  />
</template>

<script>
  import { wearMask, removeMask } from "./utils"
  export default {
    name: "v-dinero",
    data () {
      return {
        unformatted: null
      }
    },
    methods: {
      validateInput(e) { ... }
      updateInput(e) {
        this.unformatted = removeMask(e.target.value)
      }
    },
    computed: {
      formattedCashMoney() {
        return wearMask(this.unformatted)
      }
    }
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-model="formattedCashMoney"
    @keydown="validateInput"
  />
</template>

<script>
  import { wearMask, removeMask } from "./utils"
  export default {
    name: "v-dinero",
    data () {
      return {
        formatted: null
      }
    },
    methods: {
      validateInput(e) { ... }
    },
    computed: {
      formattedCashMoney() {
        get() { ... },
        set() { ... }
      }
    }
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-model="formattedCashMoney"
    @keydown="validateInput"
  />
</template>

<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero",
  data () {
    return {
      formatted: null
    }
  },
  methods: {
    validateInput(e) { ... }
  },
  computed: {
    formattedCashMoney() {
      get() { return this.formatted },
      set() { ... }
    }
  }
}
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-model="formattedCashMoney"
    @keydown="validateInput"
  />
</template>

<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero",
  data () {
    return {
      formatted: null
    }
  },
  methods: {
    validateInput(e) { ... }
  },
  computed: {
    formattedCashMoney() {
      get() { return this.formatted },
      set(newVal) {
        let val = removeMask(newVal)
        this.formatted = wearMask(this.unformatted)
      }
    }
  }
}
</script>
```

Working Demo



Reusable Components

0.00

(###)-###-####

MM/DD/YYYY

```
<VDinero />
```

Component Pattern

Renderless Components

```
export default {
  render(h) {
    return
      this.$scopedSlots.default({
        ...
      })
  }
}
```

```
<v-mask>
```

```
//some children nodes//
```

```
</v-mask>
```

```
<v-mask  
  v-slot:default="{ ... }"  
>
```

```
//some children nodes//
```

```
</v-mask>
```

```
<v-mask
  v-slot:default="{
    formattedValue, input, keydown
  }"
>
  <label>
    <input
      type="text"
      :value="formattedValue"
      @input="input"
      @keydown="keydown"
    />
  <label>
</v-mask>
```

```
<v-mask
  v-slot:default="{
    formattedValue, input, keydown
  }"
>
  <label>
    <input
      type="text"
      :value="formattedValue"
      @input="input"
      @keydown="keydown"
    />
  <label>
</v-mask>
```

```
<v-mask
  v-slot:default="{
    formattedValue, input, keydown
  }"
>
  <label>
    <input
      type="text"
      :value="formattedValue"
      @input="input"
      @keydown="keydown"
    />
  <label>
</v-mask>
```

```
<v-mask
  v-slot:default="{
    formattedValue, listeners
  }"
>
  <label>
    <input
      type="text"
      :value="formattedValue"
      v-on="listeners"
    />
  <label>
</v-mask>
```

```
<v-mask
  v-slot:default="{
    formattedValue, listeners
  }"
>
  <label>
    <input
      type="text"
      :value="formattedValue"
      v-on="listeners"
    />
  </label>
</v-mask>
```

```
export default {
  name: "v-mask",
  data() {
    return {
      formatted: "0.00"
    };
  },
  render() {
    return this.$scopedSlots.default({
      formattedValue: this.formatted,
      listeners: {
        keydown: e => { ... },
        input: e => { ... }
      }
    });
  }
}
```

```
export default {
  name: "v-mask",
  data() {
    return {
      formatted: "0.00"
    };
  },
  render() {
    return this.$scopedSlots.default({
      formattedValue: this.formatted,
      listeners: {
        keydown: e => { ... },
        input: e => { ... }
      }
    })
  }
}
```

```
export default {
  name: "v-mask",
  data() {
    return {
      formatted: "0.00"
    };
  },
  render() {
    return this.$scopedSlots.default({
      formattedValue: this.formatted,
      listeners: {
        keydown: e => { ... },
        input: e => { ... }
      }
    })
  }
}
```

```
export default {
  name: "v-mask",
  data() {
    return {
      formatted: "0.00"
    };
  },
  render() {
    return this.$scopedSlots.default({
      formattedValue: this.formatted,
      listeners: {
        keydown: e => { ... },
        input: e => { ... }
      }
    });
  }
}
```

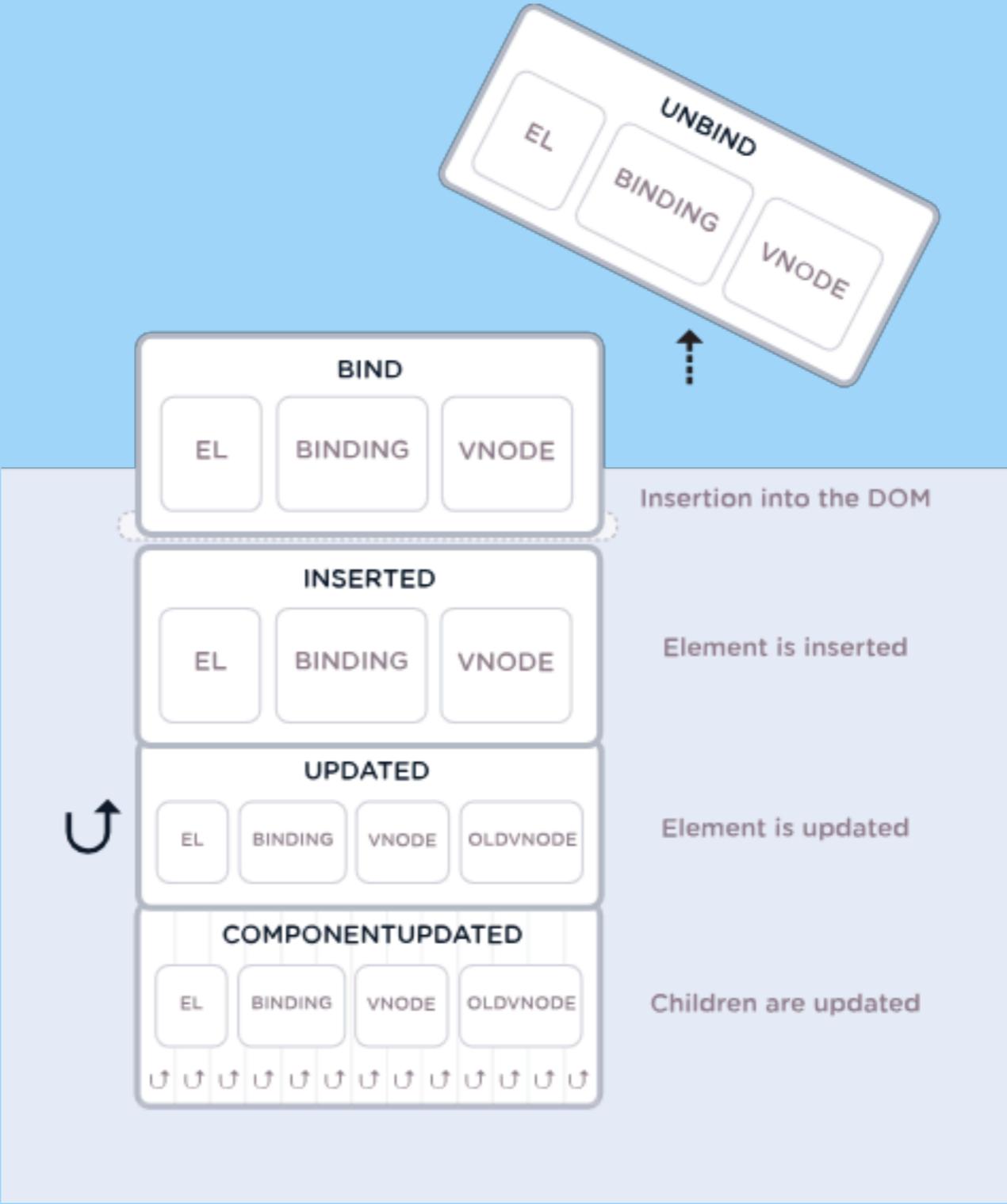
```
<input  
  v-mask="' ('###)###-####'"  
>
```

```
<input  
  v-mask="' ##/##/#### '"  
>
```

Component Pattern

Directives

```
directives: {  
  mask: {  
    bind() { ... }  
    inserted() { ... }  
    update() { ... }  
    componentUpdated() { ... }  
    unbind() { ... }  
  }  
}
```



```
<template>
  <input
    type="text"
    id="currency"
    v-mask="' (###)###-####' "
  >
</template>
<script>
  export default {
    name: "v-dinero",
    directives: {
      mask: {
        bind() {...}
        componentUpdated() {...}
      }
    },
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-mask="'(###)###-####'"
  >
</template>
<script>
  export default {
    name: "v-dinero",
    directives: {
      mask: {
        bind() {...}
        componentUpdated() {...}
      }
    },
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-mask="'(###)###-####'"
  >
</template>
<script>
  import { wearMask, removeMask } from "./utils"
  export default {
    name: "v-dinero",
    directives: {
      mask: {
        bind(el, { value }) {
          const mask = value
          el.value = wearMask(el.target.value, mask);
        },
        componentUpdated() {...}
      }
    },
  }
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-mask="'(###)###-####'"
  >
</template>
<script>
  import { wearMask, removeMask } from "./utils"
  export default {
    name: "v-dinero",
    directives: {
      mask: {
        bind(el, { value }) {
          const mask = value
          el.value = wearMask(el.target.value, mask);
        },
        componentUpdated(el, { value }) {
          const mask = value
          let unformatted = removeMask(el.target.value)
          el.value = wearMask(unformatted, mask);
        }
      }
    }
  },
}
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-mask="'(###)###-####'"
    v-model="currentMask"
  >
</template>
<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero"
  data() {
    return { currentMask: null }
  },
  directives: {
    mask: {
      bind(el, { value }) {
        const mask = value
        el.value = wearMask(el.target.value, mask);
      },
      componentUpdated(el, { value }) {
        const mask = value
        let unformatted = removeMask(el.target.value)
        el.value = wearMask(unformatted, mask);
      }
    }
  },
}
</script>
```

```
<template>
  <input
    type="text"
    id="currency"
    v-mask="'(###)###-####'"
    v-model="currentMask"
  >
</template>
<script>
import { wearMask, removeMask } from "./utils"
export default {
  name: "v-dinero"
  data() {
    return { currentMask: null }
  },
  directives: {
    mask: {
      bind(el, { value }) {
        const mask = value
        el.value = wearMask(el.target.value, mask);
      },
      componentUpdated(el, { value }) {
        const mask = value
        let unformatted = removeMask(el.target.value)
        el.value = wearMask(unformatted, mask);
      }
    }
  },
}
</script>
```

Component Pattern

Hooks

????????????????????????????

Component Pattern

"Hooks"

????????????????????

Component Pattern

~~"Hooks"~~

**Compositional
Functions**

????????????????????

Mixins **can't consume and use state from one to another**, but Hooks can. This means that *if we need to chain encapsulated logic*, it's now possible with Hooks.

– Evan You

Why use
this pattern?





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[yyx990803](#) / [vue-hooks](#)

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Experimental React hooks implementation in Vue

[27 commits](#) [1 branch](#) [0 releases](#) [4 contributors](#)

Branch: [master](#) [New pull request](#) [Create new file](#) [Upload files](#) [Find File](#) [Clone or download](#)

yyx990803 0.3.2	Latest commit 5e0de4e on Jan 23
.gitignore	give effects access to this when appropriate 2 months ago
README.md	readme 5 months ago
example.html	Removes dynamic imports for Firefox support 5 months ago
example2.html	Removes dynamic imports for Firefox support 5 months ago
example3.html	Removes dynamic imports for Firefox support 5 months ago
index.js	give effects access to this when appropriate 2 months ago
package.json	0.3.2 2 months ago

[README.md](#)

vue-hooks

POC for using [React Hooks](#) in Vue. Totally experimental, don't use this in production.

```
<input
  type="text"
  v-model="formatted"
  @keydown="validateInput"
>
```

```
<input
  type="text"
  :value="formatted.get()"
  @input="formatted.set(e)"
  @keydown="validateInput"
>
```

```
import { useData, useComputed } from "vue-hooks";

export function computeMask() {
  function wearMask(numstr) {
    //format code//
  }

  const data = useData({
    unformatted: null
  });

  const computed = useComputed(() => {
    return {
      formatted: {
        get() {
          return data.unformatted;
        },
        set(e) {
          data.unformatted = wearMask(e.target.value);
        }
      }
    }
  });
  return {
    computed
  };
}
```



```
import { useData, useComputed } from "vue-hooks";

export function computeMask() {
  function wearMask(numstr) {
    //format code//
  }

  const data = useData({
    unformatted: null
  });

  const computed = useComputed(() => {
    return {
      formatted: {
        get() {
          return data.unformatted;
        },
        set(e) {
          data.unformatted = wearMask(e.target.value);
        }
      }
    }
  });
  return {
    computed
  };
}
```

```
import { useData, useComputed } from "vue-hooks";

export function computeMask() {
  function wearMask(numstr) {
    //format code//
  }

  const data = useData({
    unformatted: null
  });

  const computed = useComputed(() => {
    return {
      formatted: {
        get() {
          return data.unformatted;
        },
        set(e) {
          data.unformatted = wearMask(e.target.value);
        }
      }
    }
  });

  return {
    computed
  };
}
```

```
import { useData, useComputed } from "vue-hooks";

export function computeMask() {
  function wearMask(numstr) {
    //format code//
  }

  const data = useData({
    unformatted: null
  });

  const computed = useComputed(() => {
    return {
      formatted: {
        get() {
          return data.unformatted;
        },
        set(e) {
          data.unformatted = wearMask(e.target.value);
        }
      }
    }
  });
  return {
    computed
  };
}
```

```
<template>
  <input type="text"
    :value="formatted.get()"
    @input="formatted.set(e)"
  />
</template>
```

```
<script>
  import { computeMask } from "../hooks/computeMask"
  export default {
    name: "VDinero",
    hooks() {
      const { computed } = computeMask();
      const { formatted } = computed

      return {
        formatted
      };
    }
  }
</script>
```

```
<template>
  <input type="text"
    :value="formatted.get()"
    @input="formatted.set(e)"
  />
</template>
```

```
<script>
  import { computeMask } from "../hooks/computeMask"
  export default {
    name: "VDinero",
    hooks() {
      const { computed } = computeMask();
      const { formatted } = computed

      return {
        formatted
      };
    }
  }
</script>
```

```
<template>
  <input type="text"
    :value="formatted.get()"
    @input="formatted.set(e)"
  />
</template>
```

```
<script>
  import { computeMask } from "../hooks/computeMask"
  export default {
    name: "VDinero",
    hooks() {
      const { computed } = computeMask();
      const { formatted } = computed

      return {
        formatted
      };
    }
  }
</script>
```

```
<template>
  <input type="text"
    :value="formatted.get()"
    @input="formatted.set(e)"
  />
</template>
```

```
<script>
  import { computeMask } from "../hooks/computeMask"
  export default {
    name: "VDinero",
    hooks() {
      const { computed } = computeMask();
      const { formatted } = computed

      return {
        formatted
      };
    }
  }
</script>
```

Why use
this pattern?

Maybe don't use that...

- Vue people I chatted with



Advanced Reactivity API #22

Open yyx990803 wants to merge 2 commits into `master` from `advanced-reactivity-api`

Conversation 9

Commits 2

Checks 0

Files changed 1

+302 -0



yyx990803 commented 21 hours ago

Member + 👤 ⋮

Rendered

API for creating and observing standalone reactive values outside components.

```
import { state, value, computed, watch } from '@vue/observer'

// reactive object
// equivalent of 2.x Vue.observable()
const obj = state({ a: 1 })

// watch with a getter function
watch(() => obj.a, value => {
  console.log(`obj.a is: ${value}`)
})

// a "ref" object that has a .value property
const count = value(0)

// computed "ref" with a read-only .value property
const plusOne = computed(() => count.value + 1)

// refs can be watched directly
watch(count, (count, oldCount) => {
  console.log(`count is: ${count}`)
})
```

Reviewers

No reviews

Assignees

No one assigned

Labels

3.x

core

Projects

None yet

Milestone

No milestone

Notifications

🔔 **Subscribe**

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```
import { value, computed } from '@vue/observer'

export function useComputeMask() {
  const unformatted = value(0)

  const formatted = computed(
    () => unformatted.value,
    val => {
      let unformattedVal = removeMask(val)
      unformatted.value = wearMask(unformattedVal)
    }
  )

  return {
    formatted
  }
}
```

```
import { value, computed } from '@vue/observer'

export function useComputeMask() {
  const unformatted = value(0)

  const formatted = computed(
    () => unformatted.value,
    val => {
      let unformattedVal = removeMask(val)
      unformatted.value = wearMask(unformattedVal)
    }
  )

  return {
    formatted
  }
}
```

```
import { value, computed } from '@vue/observer'

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  const unformatted = value(0)

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    val => {
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```
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    formatted
  }
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  const formatted = computed(
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    val => {
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  return {
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  }
}
```

```
import { value, computed } from '@vue/observer'

export function useComputeMask() {
  const unformatted = value(0)

  const formatted = computed(
    () => unformatted.value,
    val => {
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    }
  )

  return {
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  }
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```

```
import { value, computed } from '@vue/observer'

export function useComputeMask() {
  const unformatted = value(0)

  const formatted = computed(
    () => unformatted.value,
    val => {
      let unformattedVal = removeMask(val)
      unformatted.value = wearMask(unformattedVal)
    }
  )

  return {
    formatted
  }
}
```

```
<template>
  <input type="text"
    v-model="formatted"
  />
</template>
```

```
<script>
  import { useCompuMask } from "../cp"
  export default {
    name: "VDinero",
    data() {
      const { formatted } = useCompuMask();

      return {
        formatted
      };
    }
  }
</script>
```

Advanced Reactivity API #22

Open yyx990803 wants to merge 2 commits into master from advanced-reactivity-api

Conversation 9 Commits 2 Checks 0 Files changed 1

+302 -0



yyx990803 commented 21 hours ago

Member + 😊 ...

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```
import { state, value, computed, watch } from '@vue/observer'

// reactive object
// equivalent of 2.x Vue.observable()
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// watch with a getter function
watch(() => obj.a, value => {
  console.log(`obj.a is: ${value}`)
})

// a "ref" object that has a .value property
const count = value(0)

// computed "ref" with a read-only .value property
const plusOne = computed(() => count.value + 1)

// refs can be watched directly
watch(count, (count, oldCount) => {
  console.log(`count is: ${count}`)
})
```

Reviewers

No reviews

Assignees

No one assigned

Labels

- 3.x
- core

Projects

None yet

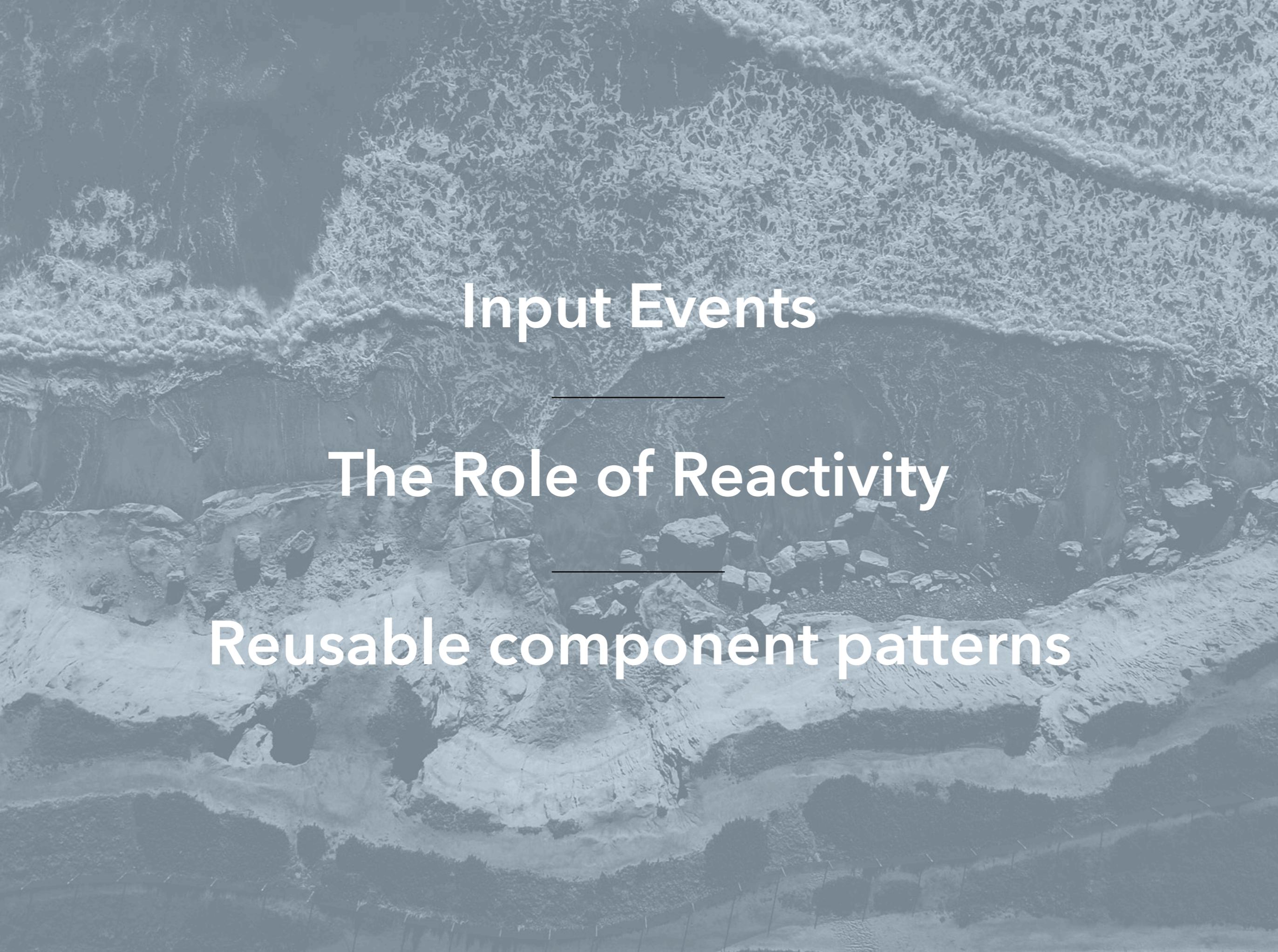
Milestone

No milestone

Notifications

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An aerial photograph of a wide canyon with a river flowing through it. A large dam is visible in the distance, and the surrounding landscape is rugged and rocky. The image is overlaid with a semi-transparent blue filter.

Input Events

The Role of Reactivity

Reusable component patterns

**Methods,
Computeds,
Directives,
Renderless Components,
~~Hooks~~ Compositional Functions,
Oh my!**



Usability
User Experience
Developer Ergonomics

Thanks!