Exploring the Vue Reactivity API

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Prerequisite

Using the Composition and Reactivity APIs

Vue 3 Fundamentals

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Basic Reactivity Functions

```
reactive()
```

```
ref()
```

```
computed()
```

reactive()

ref()

```
let product = reactive({ })
```

product.name = 'Jonny 5'

```
let product = ref({ })
let price = ref(0)
```

product.value.name = 'Jonny 5'

```
computed()

const item1 = ref(1)
const item2 = ref(2)
const total = computed(() => item1.value + item2.value)
```

Method	Primitives	Objects	Computed Props	Requires .value?
reactive()		✓		⊘
ref()	✓	✓		✓
computed()			✓	✓

```
setup(props) {
  const products = reactive(['apples', 'oranges', 'grapes']);
  const filter = (text) => {
    const filteredProducts = products.filter(p => p.includes(text));
    return products.splice(0, products.length, ...filteredProducts);
  }
  return { products, filter, }
}
</script>



setup(props) {
  const products = ref(['apples', 'oranges', 'grapes']);
  const filter = (text) => {
    return products.value = products.filter(p => p.includes(text));
  }
  return { products, filter, }
}
</script>
```

Method	Primitives	Objects	Computed Props	Requires .value?
reactive()		✓		⦸
ref()	✓	✓		✓
computed()			✓	✓

Method	Primitives	Objects	Computed Props	Requires .value?
reactive()		✓		�
ref()	✓	✓		✓
computed()			✓	✓

Method	Primitives	Objects	Computed Props	Requires .value?
reactive()		✓		🚫
readonly()		✓		🚫
ref()	✓	✓		✓
computed()			✓	✓