

## Reactivity in Depth

Vue.js 2

## Reactive?

#### Imperative

$$a := b + c$$

#### Imperative

```
b, c := 1, 2
a := b + c
b := 10
a == ?
```

#### Reactive?

#### Reactive Programming

Data Flow

+

Propagation of Change

# Propagation of Change in JavaScript

## Change Detection

```
{{ vm.count }}
            <button ng-click="vm.add()">Add</button>
function MyController ($scope) {
 const vm = this
                                     ng-click
 vm.count = 0
                                     $scope.$apply(callback)
 vm.add = function () {
  vm.count++
```

Zone.js from Dart

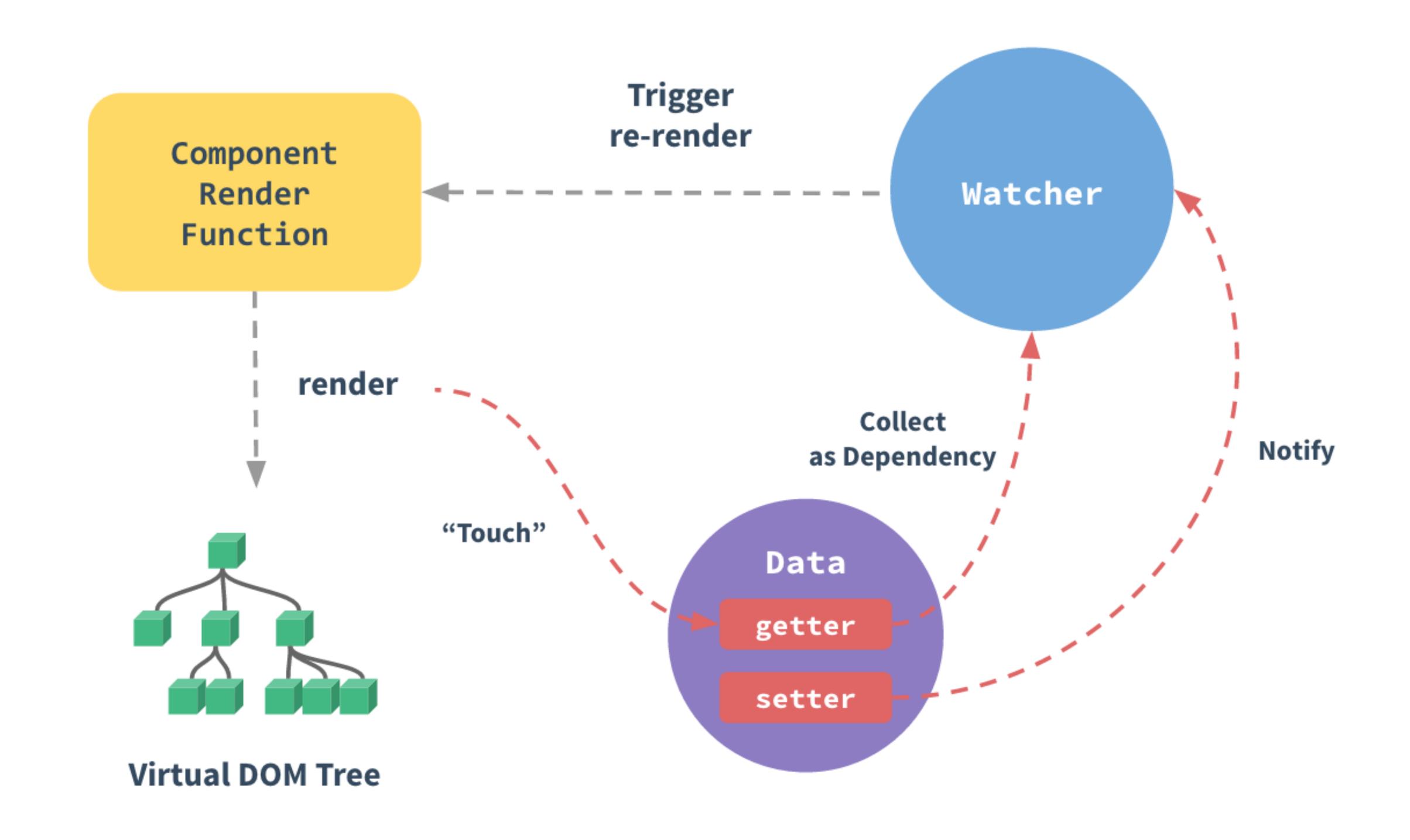
```
timeout(() => {}, 1000)
```

```
setTimeout(() => {
    $scope.$apply(() => { })
}, 1000)
```

#### Angular 2

 $setTimeout(() => { }, 1000)$ 

```
function reactiveSetter (property, value) {
 this.$data[property] = value
 console.log(`${property} change to ${value}`)
function reactiveGetter (property) {
 console.log(`get ${property}`)
 return this.$data[property]
```



## Computed

### Reactive Filter

State Management using Reactive Object

## Welcome to Reactive Programming