



JavaScript MVC

Start to write object-oriented JavaScript code using
ThinkMVC – by Nanfei

Challenges:

- I. JavaScript has been more and more popular in web applications in order to improve customer experience.
- II. JavaScript has been heavier and heavier at the client side.

Benefits from OO and MVC:

- I. Everything is object. Easier to map what we think of what we see to code.
- II. Make JavaScript code much better structured, more maintainable, readable and extendable.

Why choose OO and MVC for your JavaScript code?

AUI is a tool library based on jQuery and provides useful common components. Another big contribution is, AUI separates code into modules. It meets the Asynchronous Module Definition (AMD) rule.

```
global variables
function {...}
function {...}
....
```



```
Module1 {
  variables
  function {...}
  function {...}
}
```

```
Module2 {
  variables
  function {...}
  function {...}
}
```

AUI VS. ThinkMVC

Backbone is a MV* framework.

```
global variables
function {...}
function {...}
....
```

Dependent libs:

underscorejs: view template

requirejs: AMD

```
// business logic
Backbone.Model {
  variables: {},
  change: function {
    this.trigger('change');
  }
}
```

events

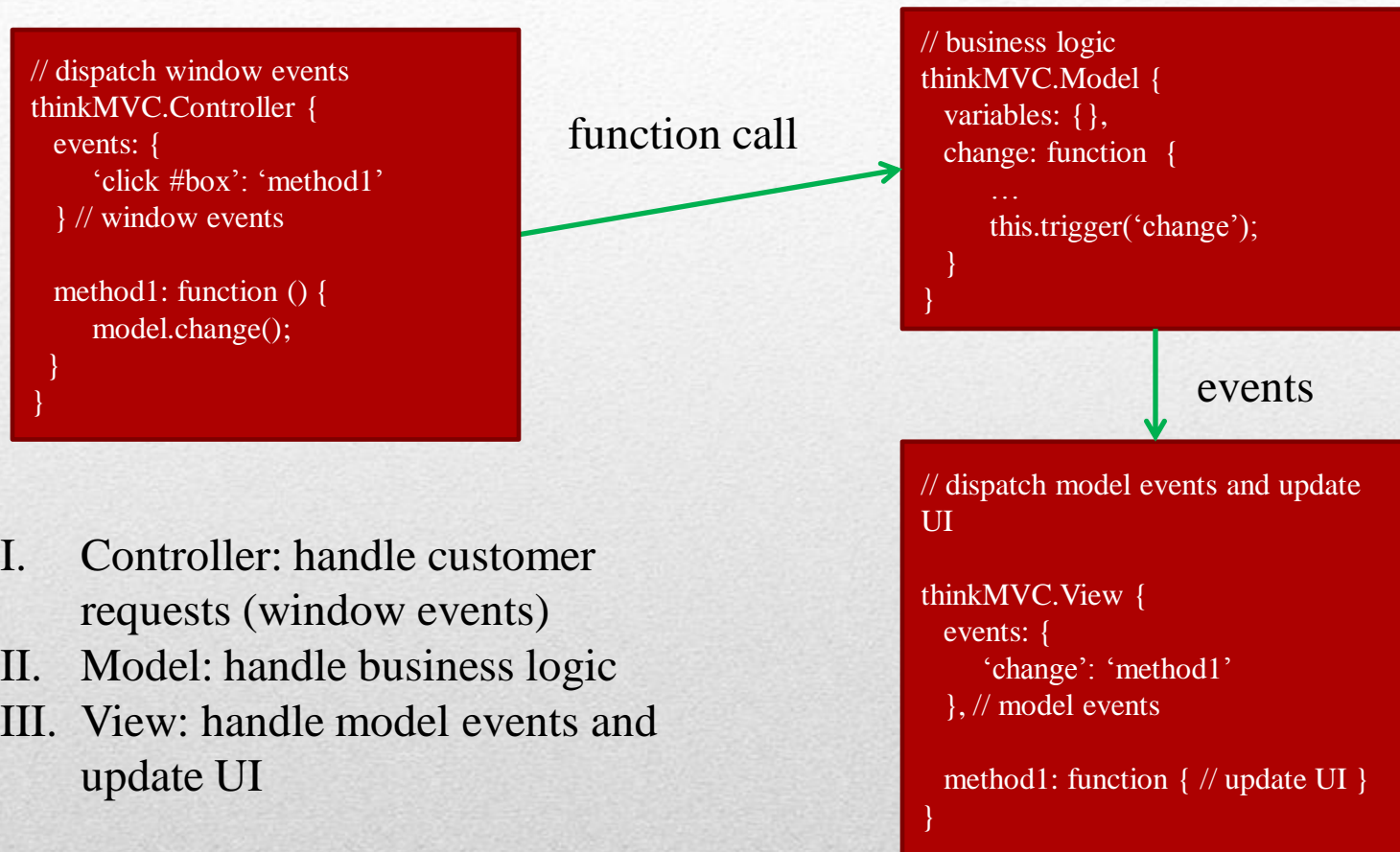
```
// subscribe window/model events
and update UI

Backbone.View {
  events: {
    'click #box': 'method1'
  } // window events

  method1: function {
    model.on('change', callback);
    model.change();
  }
}
```

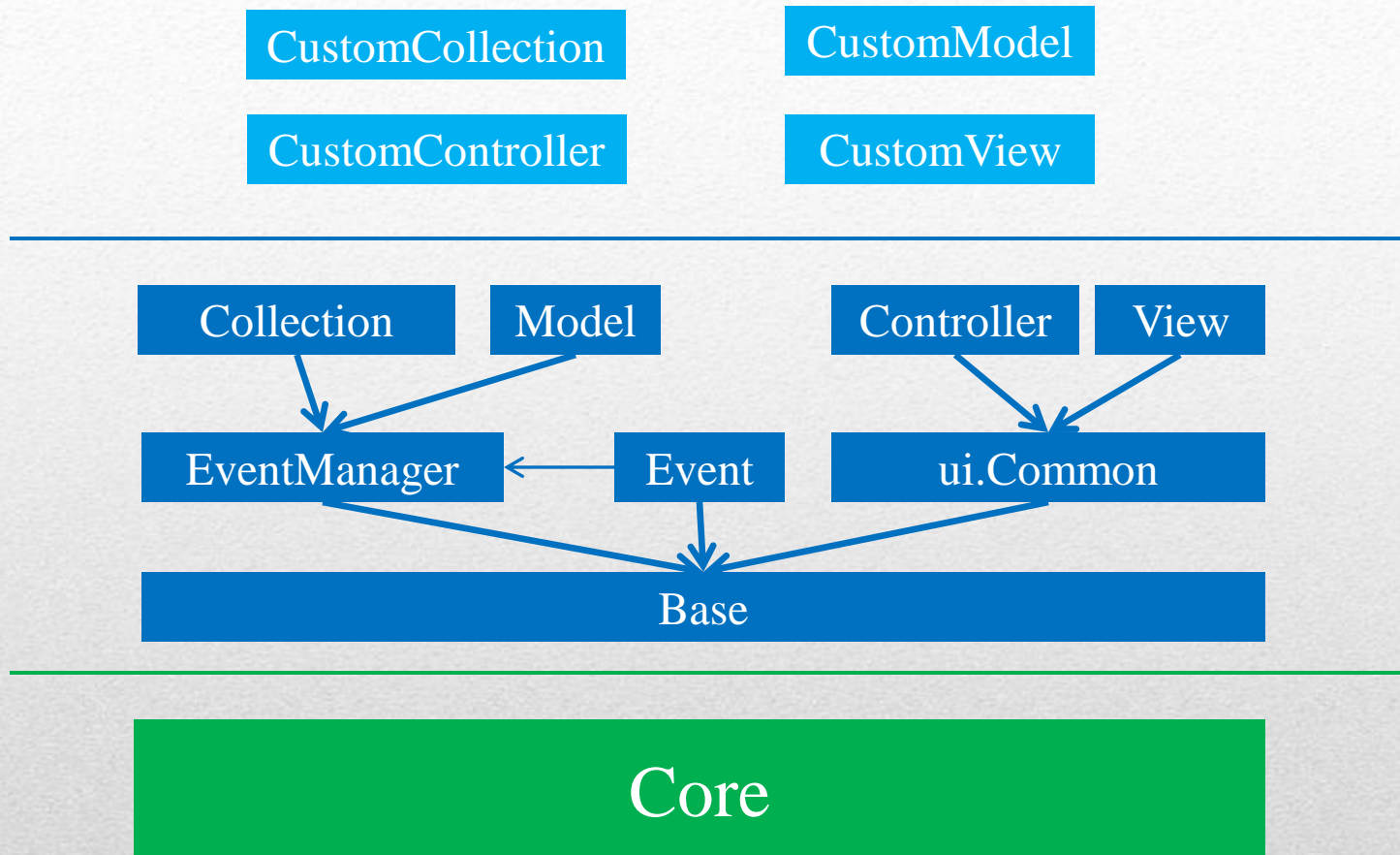
Backbone VS. ThinkMVC

ThinkMVC is a MVC framework.

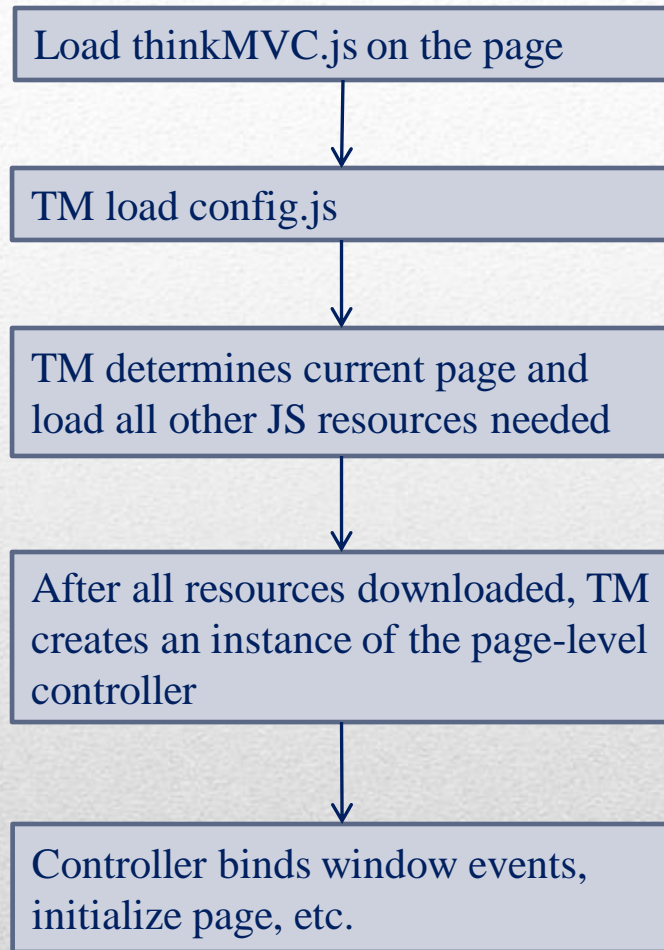


- I. Controller: handle customer requests (window events)
- II. Model: handle business logic
- III. View: handle model events and update UI

ThinkMVC – C:M:V



Architecture of ThinkMVC



Page.html

```
<script type="text/javascript" data-config="config.js"
src="thinkmvc.js" defer></script>
<body data-page="gateway">...</body>
```

config.js

```
TM.configure({
  baseUrl: "",
  dependencies: {
    myapp: ['data'],
  }
}, {
  forceSync: false,
  modules: {
    data: '/gp/mcheckout/assets/javascript/data_demo.js',
    myapp: '/gp/mcheckout/assets/javascript/appliaction_demo.js'
  },
  pages: {
    gateway: {
      controller: 'doc.GatewayController',
      module: 'myapp'
    }
  }
});
```

How does ThinkMVC work?

```
TM.declare().inherit().extend().share();
```

See example code:

<https://github.com/chennanfei/ThinkMVC/blob/master/demo.js>

Write JavaScript code with ThinkMVC

A red square with a slight gradient and a drop shadow, containing the white text "Q&A" in a serif font.

Q&A

Welcome your ideas and help make ThinkMVC more powerful
