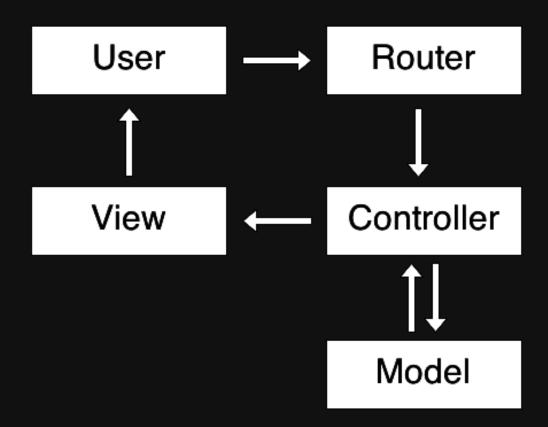


MVC JavaScript



MVC



Let's build this:

http://euglazer.github.io/raindrops/

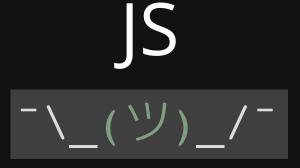
and let's be organized and sensible about it

HTML

CSS

```
div {
  height: 10px;
  width: 10px;
  border: 25px dashed black;
}
```

```
- app
- controllers
- controller.js
- models
- model.js
- views
- view.js
- index.html
- public
- javascripts
- router.js
- stylesheets
- index.css
```





- presses return key
- experiences pleasure

Router

- creates a new controller
- listens for keypress event
- if 'return' is pressed, informs the controller that it's now party time



View

- renders boxes provided by the controller
- evokes a sense of wonder within the user



Controller

- creates a new model and view
- if party time, tells the model to generate a new box, and tells the view to render the new box



Model

- generates boxes of a specified width

Router

```
function bindListeners() {
 var controller = new Controller();
 document.body.onkeyup = function(e) {
    if(e.keyCode === 13) {
      controller.partyTime();
function ready(fn) {
  if (document.readyState != 'loading'){
    fn();
  } else {
    document.addEventListener('DOMContentLoaded', fn);
ready(bindListeners);
/* THE JQUERY WAY
    var controller = new Controller();
```

Controller

```
function Controller() {
 var view = new View(); // creates new view
 var model = new Model(); // creates new model
 var size = 10:
                          // size initialized at 10
 var initialize = function() {
   view.clearScreen();
 };
 var stopIfDone = function(interval) {
    if (size > 1500) {
      clearInterval(interval);
 };
  this.partyTime = function() {
    initialize();
    var cycle = setInterval(function() {
                                          // starts interval
     var newBox = model.generateBox(size);
                                                  // tells model to generate a box with specifi
                                             // tells view to render the box
     view.addBox(newBox);
     view.scrollDown();
                                            // tells the view to scroll downwards
     size += 2;
                                            // increments size
     stopIfDone(cycle);
    },15);
```

Controller

```
function Controller() {
 var view = new View();
 var model = new Model();
 var size = 10;
 var initialize = function() {
    view.clearScreen();
 };
 var stopIfDone = function(interval) {
    if (size > 1500) {
      clearInterval(interval);
  };
  this.partyTime = function() {
    initialize();
   var cycle = setInterval(function() {
      var newBox = model.generateBox(size
      view.addBox(newBox);
      view.scrollDown();
      size += 2;
      stopIfDone(cycle);
    },15);
```

View

```
function View() {
  var seedBox = document.body.children[0];
  var largestBox = seedBox;

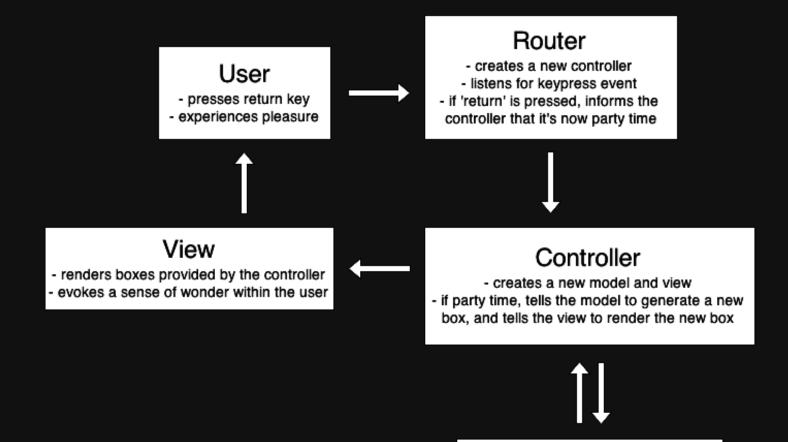
  this.clearScreen = function() {
    seedBox.innerHTML = '';
  };

  this.addBox = function(box) {
    largestBox.appendChild(box);
    largestBox = box;
  };

  this.scrollDown = function() {
    window.scrollTo(document.body.scrollHeight,docum);
};
}
```

Model

```
function Model() {
  this.generateBox = function(size) {
    var div = document.createElement('DIV');
    div.style.height = size + 'px';
    div.style.width = size + 'px';
    return div;
  };
}
```



http://euglazer.github.io/raindrops/

Model - generates boxes of a specified width