

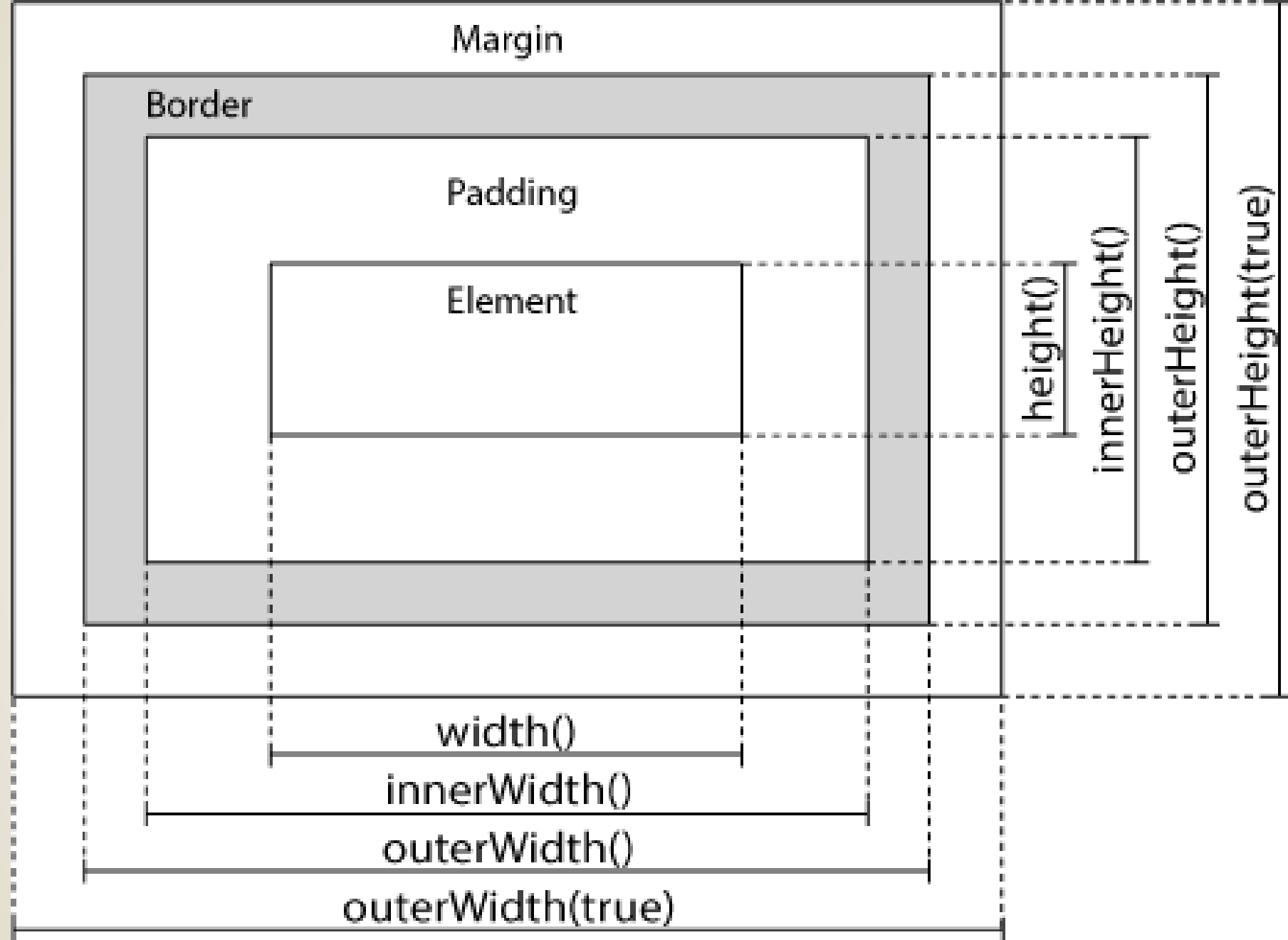
A decorative graphic on the left side of the slide. It features a solid green vertical bar on the far left. To its right, there are several thin, curved lines in shades of green and grey. A dark blue arrow points to the right, partially overlapping the green bar and the curved lines.

# jQuery



# Dimensions

1. jQuery has several important methods for working with dimensions:
  - **width()** : method sets or returns the width of an element (excludes padding, border and margin).
  - **height()** : method sets or returns the height of an element (excludes padding, border and margin).
  - **innerWidth()** : method returns the width of an element (includes padding).
  - **innerHeight()** : method returns the height of an element (includes padding).
  - **outerWidth()** : method returns the width of an element (includes padding and border).
  - **outerHeight()** : method returns the height of an element (includes padding and border).





# jQuery Callback Functions

- JavaScript statements are executed line by line. However, with effects, the next line of code can be run even though the effect is not finished. This can create errors.
- To prevent this, you can create a callback function.
- A callback function is executed after the current effect is finished.

# Events

jQuery has many ways to handle events.

# Remember the events

- . click( fn )
- . dblclick( fn )
- . **hover( fnIn , fnOut )**
- . submit( fn )
- . blur( fn )
- . focus( fn )
- . change()
- . select()

- . keyup( fn )
- . keydown( fn )
- . keypress( fn )

- . mouseover ( fn )
- . mousemove ( fn )
- . mouseout ( fn )

- . scroll()
- . resize()

- . ready()



# Handler Types



on

one

trigger





```
$("#selector").on(event,[childSelector],[data], function, map)
```

## Example

---

*//Basic Example*

```
$("#div").on("click", function() {  
    alert("Hi, I'm DIV");  
});
```

*//Delegation Example*

```
$("#div").on("click", "p", function() {  
    alert("Hi, I'm Paragraph");  
});
```





```
$("selector").on(event, [childSelector], [data], function, map)
```

## Example

---

```
//Map Example
```

```
$("div").on({  
  click: function() {  
    alert("You clicked me");  
  },  
  mouseover: function() {  
    alert("You hovered over me");  
  }  
});
```



```
$( "selector" ).on( event, [childSelector], [data], function, map )
```

## Example

---

*//Map with Delegation Example*

```
$( "div" ).on( {  
    click: function() {  
        alert( "You clicked me" );  
    },  
    mouseover: function() {  
        alert( "You hovered over me" );  
    }  
}, 'p' );
```



```
$("selector").one(event, [data], function)
```

### Example

```
//Multiple Events Example
```

```
$("div").one("click dbclick", function() {  
    alert("Hi, I'm DIV");  
});
```

```
//Data Example
```

```
$("div").one("click", {name: "ahmed"}, function(event) {  
    var name = event.data.name;  
    alert("Hi, I'm" + name);  
});
```

```
$("selector").trigger(event)
```

## Example

```
//Attach a callback to the Select Event
```

```
$("input").select(function() {  
    $(this).after(" Text marked!");  
});
```

```
//trigger the select event handler when clicking the button
```

```
$("button").click(function() {  
    $("input").trigger("select");  
});
```



# UI Effects

UI Effects and animation become more interesting with jQuery.

# Show / Hide

```
$("selector").show ([duration] [, easing] [, callbackFn])
```

## Example

```
hide ()
```

```
show (1000)
```

```
toggle (500)
```

```
toggle (500, function ({  
    $(this).css ("background", 'blue');  
}));
```

```
$("div") .
```



```
$("selector").slideUp([duration][,easing][,callbackFn])
```

### Example

```
slideUp(500, "swing")
```

```
$("div").slideDown("slow")
```

```
slideToggle()
```

DIV



```
$("selector").animate(styleObj [,duration] [,easing] [,callbackFn])
```

## Example

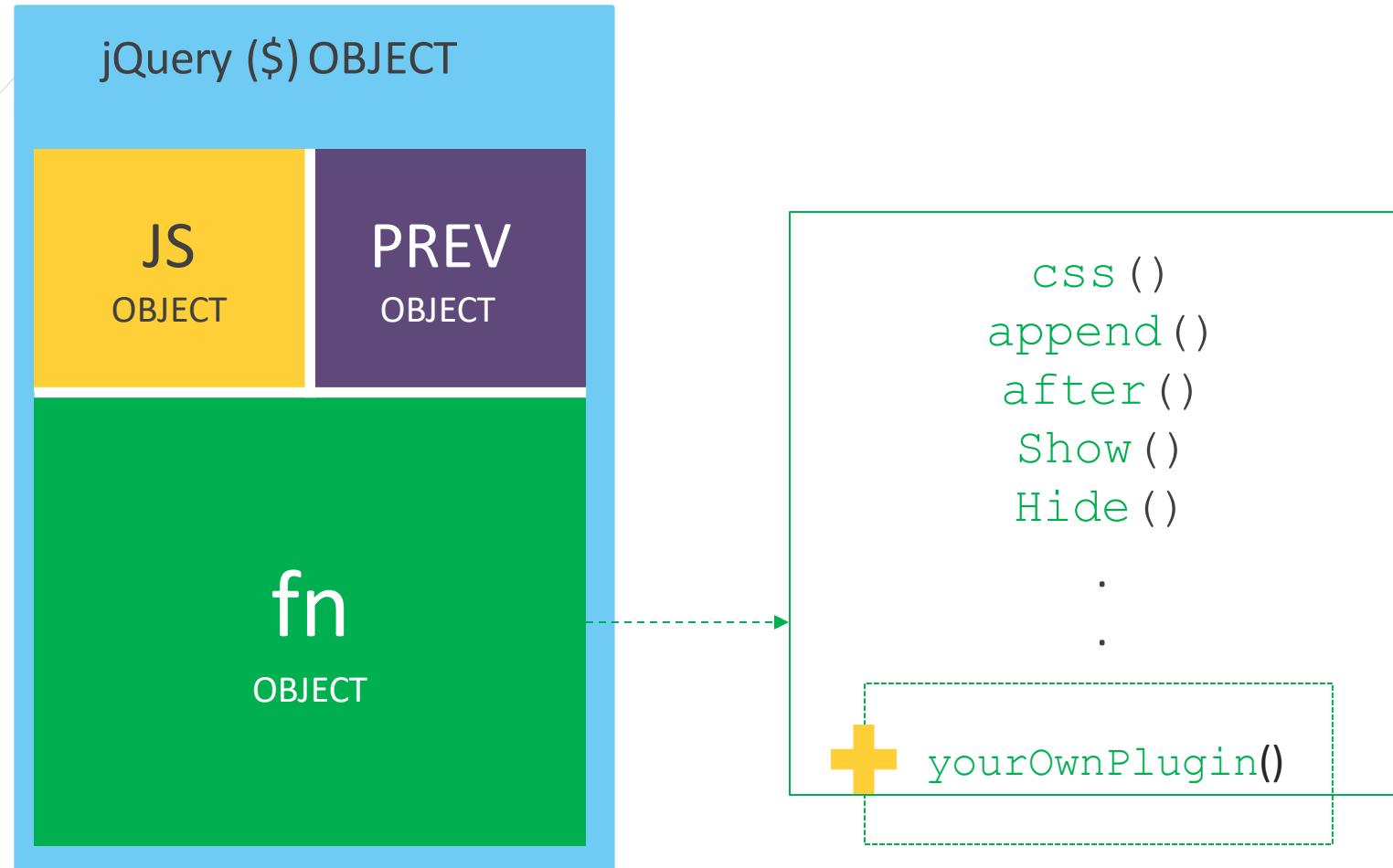
```
$("div").animate({  
    height: '100px'  
    width: '200px'  
},function() {  
    $(this).css('background', 'blue');  
})
```





# Plug-ins

jQuery doesn't let you use it only but you can  
contribute developing it



# Build Simple Plug-in

*//Basic Plugin Authoring*

```
$.fn.greenify = function() {  
    //what should this plugin do  
    this.css( "color", "green" );  
    //to enable method chaining  
    return this;  
}
```

*//Try it*

```
$( "a" ).greenify().addClass( "greenified" );
```



//Create Plugin with options

```
$.fn.greenify = function(options) {  
    var settings = $.extend({  
        // These are the defaults  
        color: "green"  
    }, options );  
    return this.css({color: settings.color});  
}
```

//Try it

```
$( "a" ).greenify();  
$( "a" ).greenify({ color : "orange" });
```





No Conflict

```
$.noConflict();  
  
(function( $ ){  
  
    // Your code here  
  
})(jQuery);
```



Wrap anonymous function



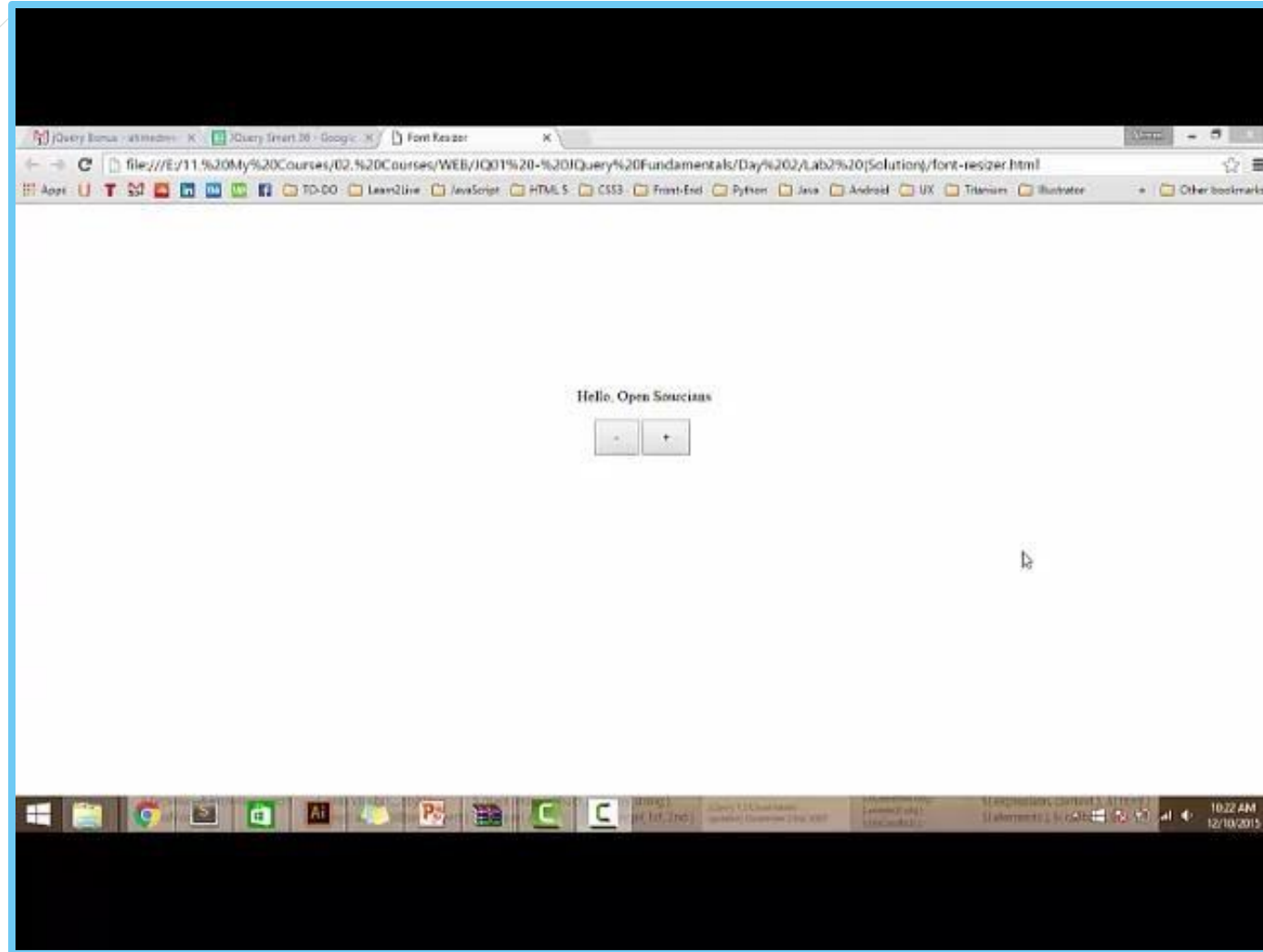
Declaration Curly Braces Self



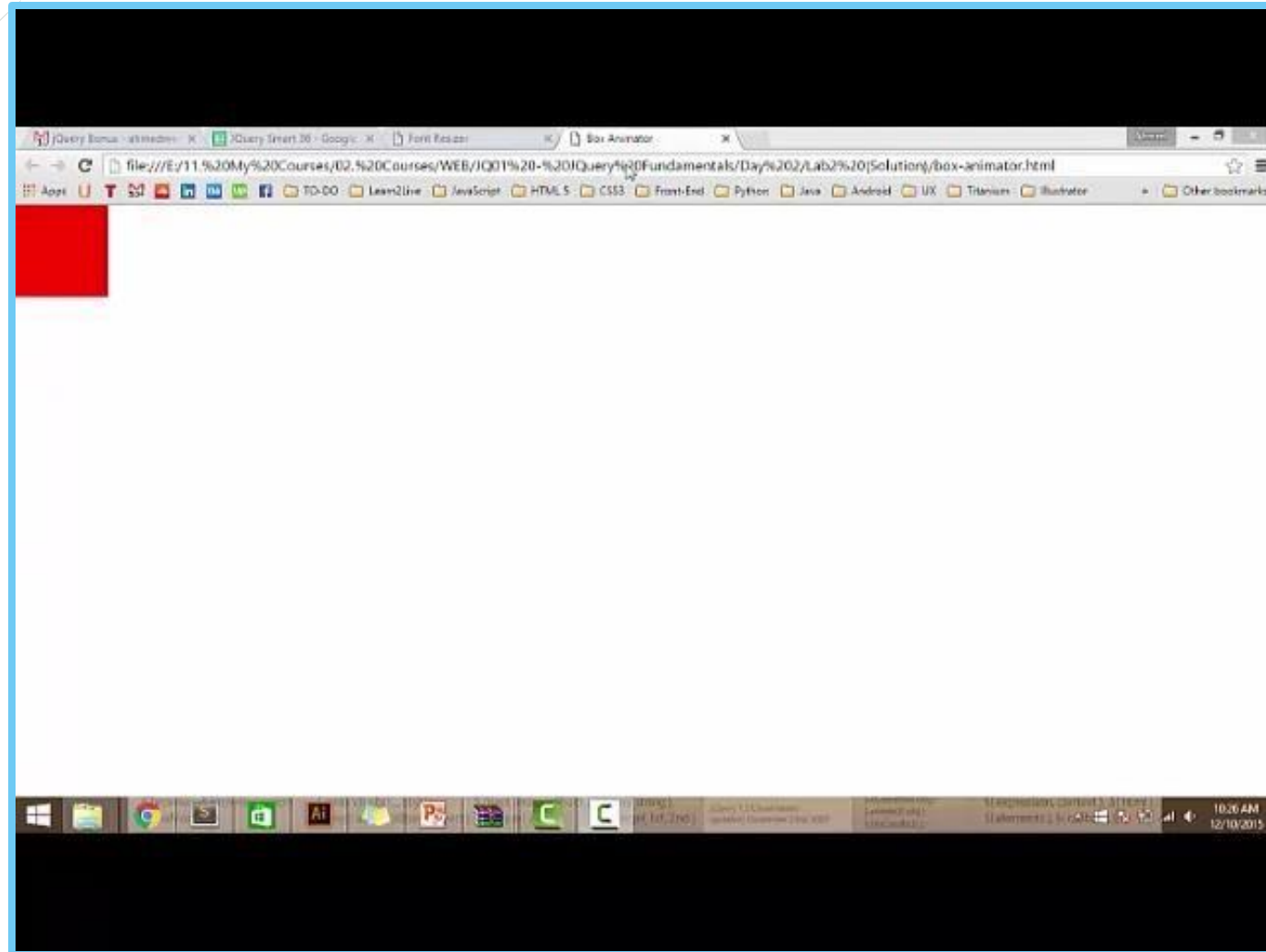
calling Curly Braces



## Text Resizer



## Box Animator





## Colorify Plugin

```
$ ( "a" ) .colorify();
```

```
$ ( "a" ) .colorify("orange");
```

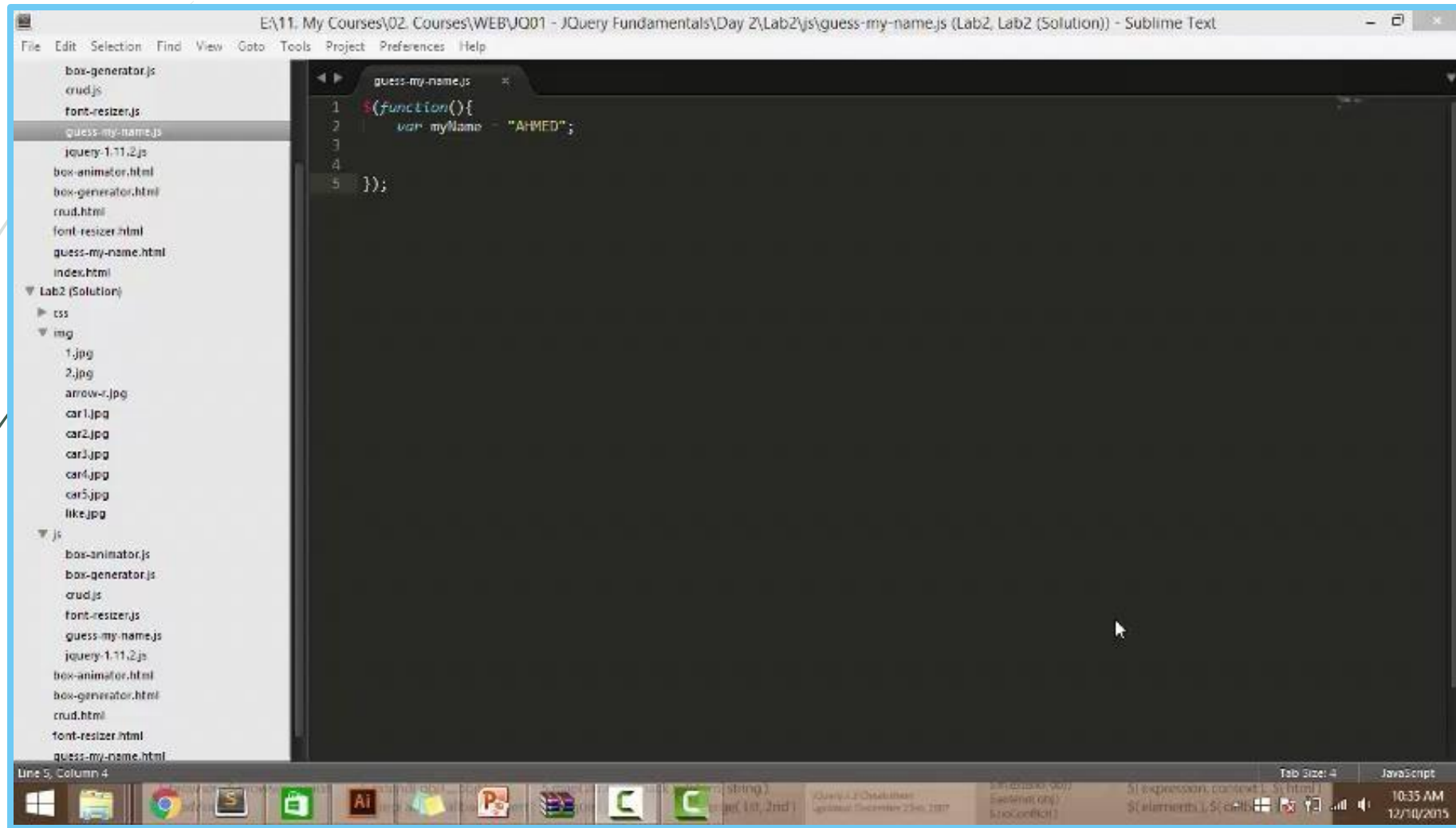
```
$ ( "a" ) .colorify({ 'color': 'orange' });
```

```
$ ( "a" ) .colorify(['red', 'green', 'blue']);
```

 Bonus



## Guess My Name



```
1  $(function(){  
2      var myName = "AHMED";  
3  
4  
5  });
```

File Explorer contents:

- box-generator.js
- crud.js
- font-resizer.js
- guess-my-name.js
- jquery-1.11.2.js
- box-animator.html
- box-generator.html
- crud.html
- font-resizer.html
- guess-my-name.html
- index.html
- Lab2 (Solution)
  - css
  - img
    - 1.jpg
    - 2.jpg
    - arrow-r.jpg
    - car1.jpg
    - car2.jpg
    - car3.jpg
    - car4.jpg
    - car5.jpg
    - like.jpg
  - js
    - box-animator.js
    - box-generator.js
    - crud.js
    - font-resizer.js
    - guess-my-name.js
    - jquery-1.11.2.js
    - box-animator.html
    - box-generator.html
    - crud.html
    - font-resizer.html
    - guess-my-name.html

Status Bar: Line 5, Column 4 | JavaScript

