

JavaScript Functions

Object vs

```
var vacation = {
  init: function() {
    // init vacation
  }
};

$(document).ready(function() {
  vacation.init();
});
```

Limited to 1 confirmation on the page

vs Function

Notice it's capitalized!

```
function Vacation(destination) {
    // init vacation to destination
}

$(document).ready(function() {
    var paris = new Vacation('Paris');
    var london = new Vacation('London');
});
```

Can have multiple vacations

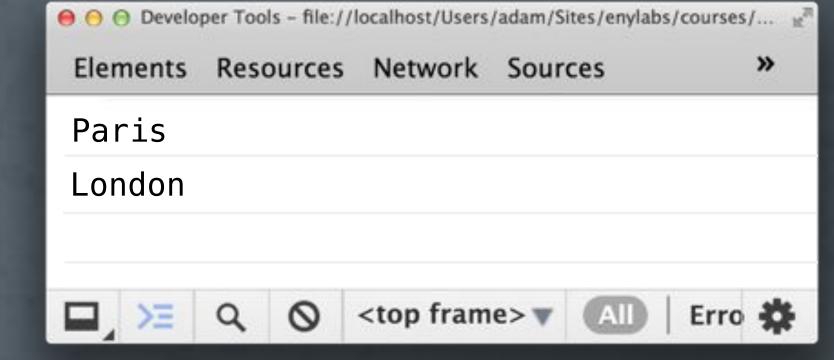
Functions as Objects Example

```
function Vacation(destination) {
  this.details = function()_{
    console.log(destination);
$(document) ready(function() {
  var paris = new Vacation('Paris');
  paris.details();
  var london = new Vacation('London');
  london.details();
});
```

paris and london both have their own scoped variables

Browser Logging

```
console.log(message);
```



Functions as Objects Example

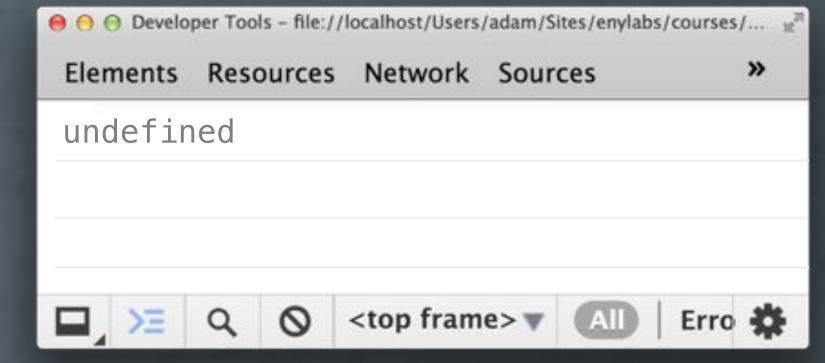
```
function Vacation(destination) {
  this.details = function() {
    console.log(destination);
  }
}

$(document).ready(function() {
  var paris = new Vacation('Paris');
  console.log(paris.destination);
});
```

Can't access locally scoped variables

Browser Logging

```
console.log(message);
```



Lets Move this Object into a Reusable Function

```
var confirmation = {
 init: function() {
    $('.confirmation').on('click', 'button', this.loadConfirmation);
    $('.confirmation').on('click', '.view-boarding-pass', this.showBoardingPass);
  loadConfirmation: function() { ... }
  showBoardingPass: function(event) { ... }
};
$(document) ready(function() {
 confirmation.init();
});
```

Refactoring to Functions

```
el refers to the element
application.js
function Confirmation(el) {
                                         Save a reference to the passed in element
 this.el = el;
 // helper methods go here
 // event handlers go here
$(document).ready(function() {
 var paris = new Confirmation($('#paris'));
                                                              Create a new confirmation
 var london = new Confirmation($('#london'));
                                                             for each ticket
});
```

Adding the methods and event listeners

```
function Confirmation(el) {
 this.el = el;
 this.loadConfirmation = function() { ... }
 this.showBoardingPass = function(event) { ... }
 this.el.on('click', 'button', this.loadConfirmation);
 this el.on('click', '.view-boarding-pass', this showBoardingPass);
$(document) ready(function() {
 var paris = new Confirmation($('#paris'));
 var london = new Confirmation($('#london'));
});
```

Fixing the target element

```
function Confirmation(el) {
 this.el = el;
 this.loadConfirmation = function() {
                                                         Will target all tickets, not just
   $.ajax('confirmation.html', {
                                                         the one that was clicked
     timeout: 3000,
     success: function(response) {
        $('.ticket').html(response).slideDown();
   });
 this.el.on('click', 'button', this.loadConfirmation);
 this_el.on('click', '_view-boarding-pass', this_showBoardingPass);
```

Fixing the target element

```
function Confirmation(el) {
 this.el = el;
 this.ticket = this.el.find('.ticket');
 this.loadConfirmation = function() {
   $.ajax('confirmation.html', {
     timeout: 3000,
     success: function(response) {
       this.ticket.html(response).slideDown();
   });
 this.el.on('click', 'button', this.loadConfirmation);
 this el.on('click', '.view-boarding-pass', this show Boarding Pass);
```

jQuery Travels - Vacation Confirmation

Confirmations

Paris Vacation

Paid \$1399.99 on jamuary \$4, 2013.

FLIGHT DETAILS

London Vacation

Paid \$1109.99 on December 28, 2013.

FLIGHT DETAILS

Call us at 555-25937 to make a reservation today!

We're referencing the wrong 'this'

application.js

```
function Confirmation(el) {
 this.el = el;
 this.ticket = this.el.find('.ticket');
 this.loadConfirmation = function() {
   $.ajax('confirmation.html', {
     timeout: 3000,
     success: function(response) {
       this ticket html(response) slideDown();
   This refers to ajax settings and not our function's el
```

Sometimes jQuery changes the value of 'this'

Inside AJAX callbacks, this is set to the AJAX settings.

Setting the proper 'this'

application.js

```
function Confirmation(el) {
 this.el = el;
 this.ticket = this.el.find('.ticket');
 var confirmation = this;
 this.loadConfirmation = function() {
   $.ajax('confirmation.html', {
     timeout: 3000,
     context: confirmation,
     success: function(response) {
       this.ticket.html(response).slideDown();
```

Allows us to set the value of "this" inside our callbacks.

jQuery Travels - Vacation Confirmation

Confirmations

Paris Vacation

Paid \$1399.99 on january 14, 2013.

FLIGHT DETAILS

London Vacation

Paid \$1199.99 on December 28, 2013.

FUGHT DETAILS

Call us at 555-25937 to make a reservation today!

Refactoring hardcoded DOM Elements

```
application.js
    Run when the link is clicked

this.showBoardingPass = function(event) {
    event.preventDefault();
    $('.view-boarding-pass').hide();
    $('.boarding-pass').show();

    console.log(this);
    console.log(confirmation);
}
```

In the context of an event callback (this' is set to the dom object

References the confirmation object in the parent scope

```
000
           Developer Tools - http://localhost:4000/
Elements Resources Network Sources Timeline
<a href= "#" class= "view-
boarding-pass" style= "display:
none; "> View Boarding Pass </a>
Confirmation {loadConfirmation:
function, showBoardingPass:
function, el:b.fn.b.init[1],
ticket: b.fn.b.init[1]}
               <top frame>
```

Refactoring to Functions

application.js

```
this.showBoardingPass = function(event) {
   event.preventDefault();
   $(this).hide();
   confirmation.el.find('.boarding-pass').show();
}

Able to use variables from the parent scope
```

Remember, this will be the link that was clicked

jQuery Travels - Vacation Confirmation

Confirmations

Paris Vacation

Paid \$1399.99 on january 14, 2013.

FLIGHT DETAILS

London Vacation

Paid \$1109.99 on December 28, 2013.

FLIGHT DETAILS

Call us at 555-25937 to make a reservation today!