Ajax Forms

\$.ajax with POST

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\$.ajax with POST

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

What if we want to submit this form via ajax?

application.js

```
$('form').on('submit', function(e) {
    $.ajax('/book', {
        type: 'POST'
    });
});
```

Will do a POST request to the server, which is used for forms

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Preventing Double Submission

```
application.js

$('form').on('submit', function(event) {
    event.preventDefault();
    $.ajax('/book', {
        type: 'POST'
    });
});
Prevents browser from submitting
```

This would do the AJAX request, but it's not sending any form data over.

index.html

We could use the data option and grab all the values

application.js

Works, but there's a better way

index.html

Serialize packages all the values for us

application.js \$('form').on('submit', function(event) { event.preventDefault(); \$.ajax('/book', { type: 'POST', data: \$('form').serialize() }); });

jQuery Object Methods

```
serialize()
```

Used to merge all form fields for submission

index.html

Add AJAX callback (just like you saw in level 1)

```
application.js
$('form').on('submit', function(event) {
  event.preventDefault();
  $.ajax('/book', {
    type: 'POST',
    data: $('form').serialize(),
    success: function(result) { }
 });
});
               Like our previous $.ajax request,
               success is called with the HTML result
result
```

Your vacation to Paris, France has been booked for \$2,196.00 for 4 nights. Confirmation #345feab.

\$.ajax success callback

application.js

```
$('form').on('submit', function(event) {
  event.preventDefault();
  $.ajax('/book', {
    type: 'POST',
    data: $('form').serialize(),
    success: function(result) {
        $('form').remove();
        $('#vacation').hide().html(result).fadeIn();
    }
  });
});
```

There's duplication of DOM lookups

application.js

```
$('form').on('submit', function(event) {
  event.preventDefault();
  $.ajax('/book', {
    type: 'POST',
    data: $('form').serialize(),
    success: function(result) {
        $('form').remove();
        $('#vacation').hide().html(result).fadeIn();
    }
});
});
```

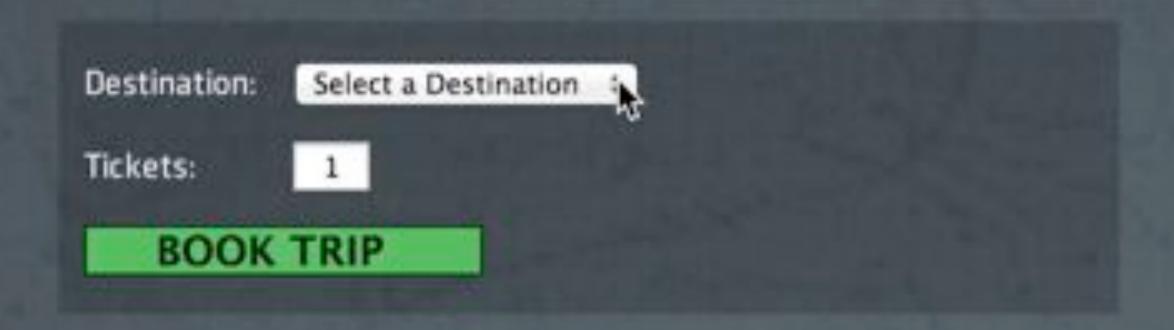
Eliminating duplication of DOM lookups

application.js

```
$('form').on('submit', function(event) {
  event.preventDefault();
  var form = $(this);
  $.ajax('/book', {
    type: 'POST',
   data: form.serialize(),
    success: function(result) {
      form.remove();
      $('#vacation').hide().html(result).fadeIn();
 });
});
```

Save a reference to the form to reduce DOM queries

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avaScript Object Notation

A standard way to format data

"HTML"

Your vacation to Paris,
France has been booked for
\$2,196.00 for 4 nights.
Confirmation #345feab.

Server decides how the HTML is formatted

"JSON"

```
totalPrice: 2196.00,
nights: 4,
location: 'Paris, France',
confirmation: '345feab'
}
```

Server returns details, we can use it as we wish

Our old code wouldn't work

application.js

```
$('form').on('submit', function(event) {
  event.preventDefault();
  var form = $(this);
  $.ajax('/book', {
    type: 'POST',
   data: form.serialize(),
    success: function(result) {
      form.remove();
      $('#vacation').hide().html(result).fadeIn();
 });
});
```

This code is expecting HTML to get returned, and injecting the result right into the page.

\$.ajax with POST and JSON

Result isn't HTML, we'll need to create a DOM node here

Ask the server to respond with JSON

Reading the JSON results and creating HTML

```
success: function(result) {
  form.remove();
  var msg = $("");
  msg.append("Destination: " + result.location + ". ");
  msg.append("Price: " + result.totalPrice + ". ");
  msg.append("Nights: " + result.nights + ". ");
  msg.append("Confirmation: " + result.confirmation+ ".");
  $('#vacation').hide().html(msg).fadeIn();
}
```

```
JSON is converted into a
result JavaScript Object

{
  location: 'Paris',
  totalPrice: 1196.00,
  nights: 4,
  confirmation: '345feab'
}
```

Destination: Paris. Price: \$2196.00. Nights: 4. Confirmation: 345feab.

Create and add a DOM node

Final event handler with POST and JSON

```
$('form').on('submit', function(e) {
 event.preventDefault();
 var form = $(this);
 $.ajax('/book', {
   type: 'POST',
   contentType: 'application/json',
   dataType: 'json',
   data: form.serialize(),
    success: function(result) {
     form.remove();
      var msg = ("");
      msg.append("Destination: " + result.location + ". ");
      msg.append("Price: " + result.totalPrice + ". ");
      msg.append("Nights: " + result.nights + ". ");
     msg.append("Confirmation: " + result.confirmation+ ".");
     $('#vacation').hide().html(msg).fadeIn();
    contentType: 'application/json'
 });
});
```

Don't Repeat Yourself

```
application.js

$.ajax('/book', { ... });

Form URL is in both HTML and JavaScript

application.js

jQuery Object Methods
```

```
$.ajax($('form').attr('action'),{ ... });

Will use the action from the form HTML
```

attr(<attribute>, <value>)

Final event handler with POST and JSON

```
$('form').on('submit', function(e) {
 event.preventDefault();
 var form = $(this);
 $.ajax($('form').attr('action'),{
   type: 'POST',
   contentType: 'application/json',
   dataType: 'json',
   data: form.serialize(),
    success: function(result) {
     form.remove();
     var msg = ("");
     msg.append("Destination: " + result.location + ". ");
     msg.append("Price: " + result.totalPrice + ". ");
     msg.append("Nights: " + result.nights + ". ");
     msg.append("Confirmation: " + result.confirmation+ ".");
     $('#vacation').hide().html(msg).fadeIn();
```

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