

Ajax with JSON

JavaScript 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

```
index.html
application.js
                                                   <form action='/book' method='POST'>
$.ajax('/book', { ... });
                                                    </form>
                    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
```

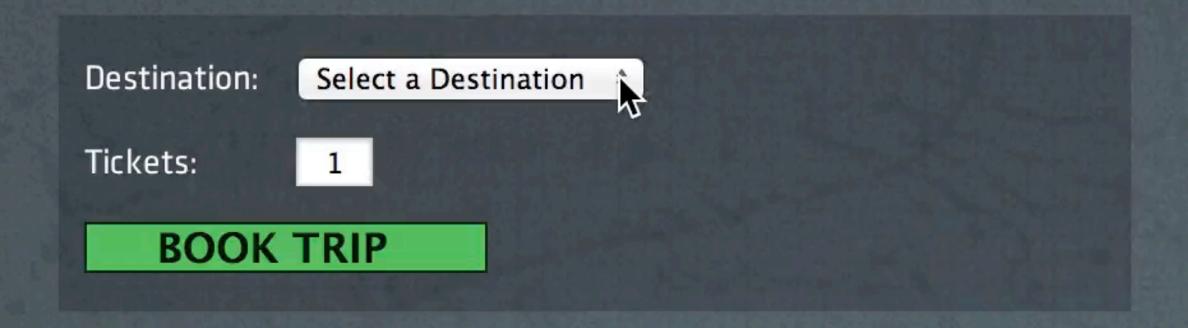
attr(<attribute>)

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();
```

jQuery Travels - Trip Booker



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