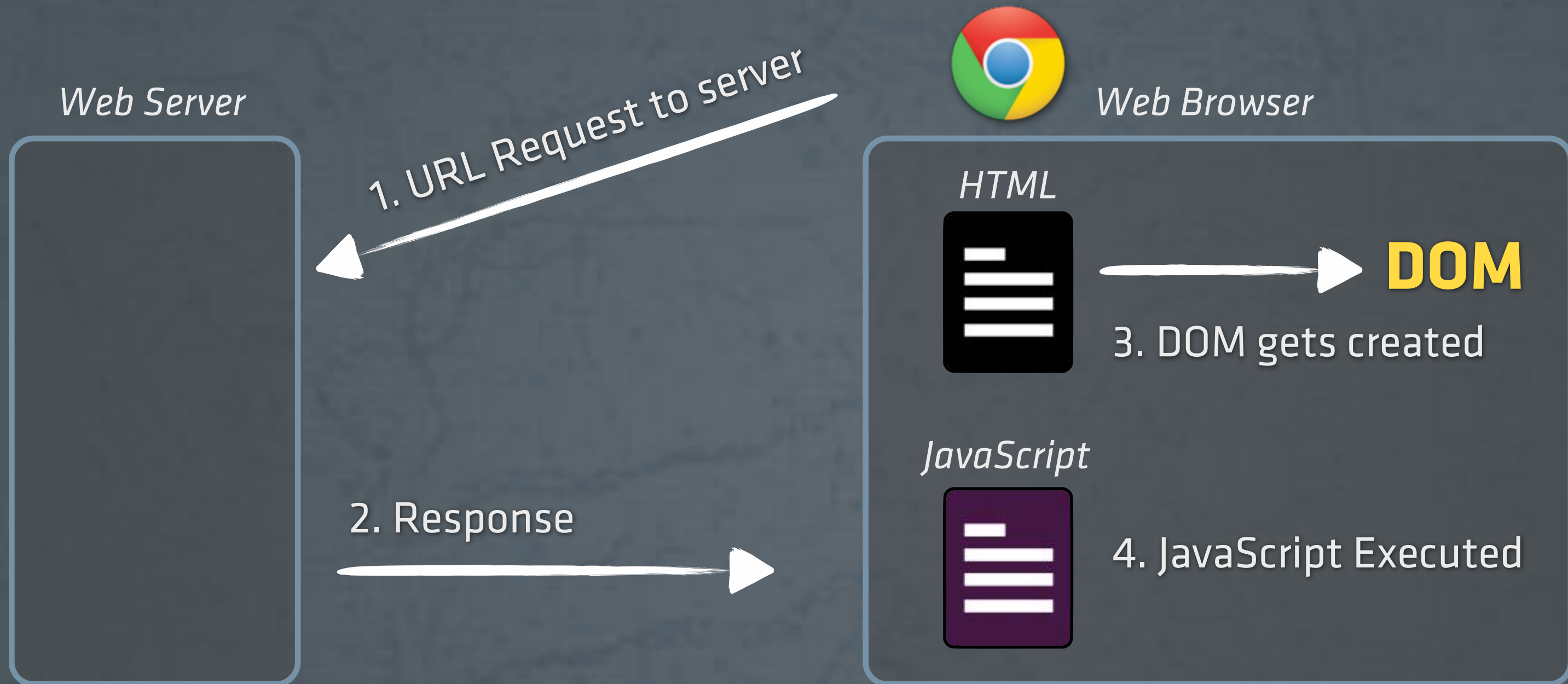




# Ajax Basics

# Typical Web Request

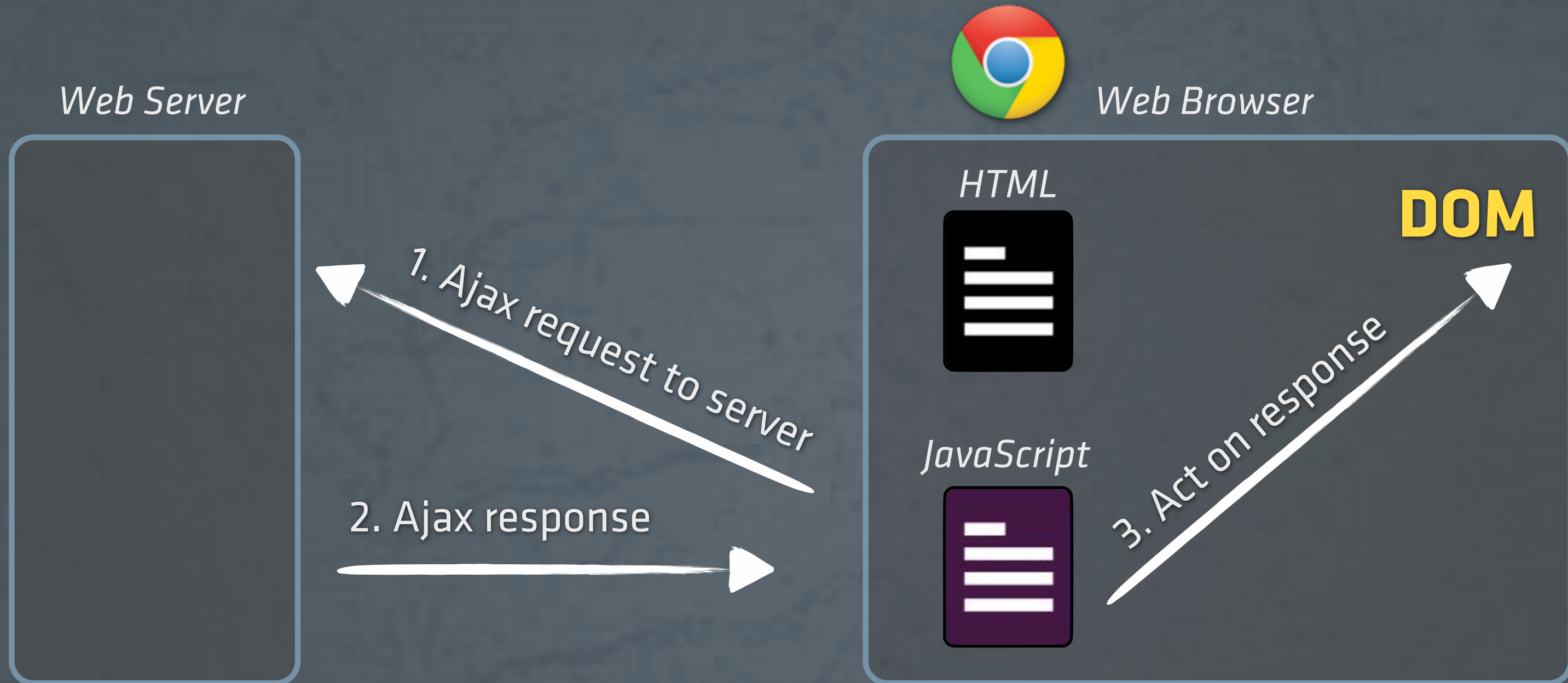


# Asynchronous JavaScript And XML “Ajax”

A client side technique for communicating with a web server.

## 1 Ajax Basics


# Ajax Communication



## 1 Ajax Basics

# jQuery Travels - Vacation Confirmation

## Confirmations

Hawaiian Vacation 

Paid \$399.99 on January 14, 2013.

**FLIGHT DETAILS**

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



# Previous Code

index.html

```
<li class='confirmation'>
  <h3>Hawaiian Vacation</h3>
  <button>Flight details</button>
  <div class='ticket'>
    <a class='view-boarding-pass'>View Boarding Pass</a>
    <img src='/ticket-14836.png' />
  </div>
</li>
```

*How would we load the ticket from the server when the button is clicked?*

*Shows the hidden element when the button is clicked*

application.js

```
$('.confirmation').on('click', 'button', function(){
  $(this).find('.ticket').slideDown();
});
$('.confirmation .view-boarding-pass').on('click', function() {
  $(this).closest('.ticket').find('img').show();
});
```

*Show boarding pass when link is clicked*

## 1 Ajax Basics

# Making our first AJAX call

application.js

```
$( '.confirmation' ).on( 'click', 'button', function() {  
    $.ajax( 'http://example.org/confirmation.html', {  
        success: function( response ) {  
            $( '.ticket' ).html( response ).slideDown();  
        }  
    } );  
});
```



*Ajax Method*

```
$.ajax( url[, settings] )
```

*Runs only when the server  
returns a successful response*

http://example.org/confirmation.html

*The response which gets returned.  
Not a full webpage.*

```
<div> ...  
    <strong>Boarding Pass: </strong>  
    <a href='#' class='view-boarding-pass'>View Boarding Pass</a>  
    <img src='ticket.png' alt='Your boarding pass' class='boarding-pass' />  
</div>
```

# Using a relative URL for AJAX calls

application.js

```
$( '.confirmation' ).on( 'click', 'button', function() {  
    $.ajax( 'confirmation.html', {  
        success: function( response ) {  
            $( '.ticket' ).html( response ).slideDown();  
        }  
    } );  
});
```



*Can be a relative URL*

*If you were on <http://example.org/index.html>,  
these requests would go to the same URL*

```
$.ajax( 'http://example.org/confirmation.html', ... );
```



# jQuery Travels - Vacation Confirmation

## Confirmations

### Hawaiian Vacation

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**FLIGHT DETAILS**

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

# Shorthand with \$.get

application.js

```
$.ajax('confirmation.html', {  
  success: function(response) {  
    $('.ticket').html(response).slideDown();  
  }  
});
```



*Equivalent to \$.ajax call above*



```
$.get('confirmation.html', function(response) {  
  $('.ticket').html(response).slideDown();  
});
```



*Shorthand Method*

```
$.get(url, success)
```

# Sending parameters with requests

Always fetching the same confirmation, no matter what trip

application.js



```
$.ajax('confirmation.html', {  
  success: function(response) {  
    $('.ticket').html(response).slideDown();  
  }  
});
```

How would we do a request with a Confirmation Number?

```
confirmation.html?confNum=1234
```

# Sending parameters with requests

application.js

```
$.ajax('confirmation.html?confNum=1234', {  
  success: function(response) {  
    $('.ticket').html(response).slideDown();  
  }  
});
```

*Equivalent to \$.ajax call above*

```
$.ajax('confirmation.html', {  
  success: function(response) {  
    $('.ticket').html(response).slideDown();  
  },  
  data: { "confNum": 1234 }  
});
```

*JavaScript Object*

# Often the data in the request is dynamic

The flight number could be pulled from the HTML

```
<div class='ticket' data-confNum='1234'>
```

```
$.ajax('confirmation.html', {  
  success: function(response) {  
    $('.ticket').html(response).slideDown();  
  },  
  data: { "confNum": $(".ticket").data("confNum") }  
});
```



*Still results in the same URL request*

```
confirmation.html?confNum=1234
```