Advanced Events

Managing Events

```
function picture() { console.log('Show Plane'); }
function status() { console.log('In Service'); }

$(document).ready(function() {
  $('button').on('click', picture);
  $('button').on('click', status);
});
```

```
<button>Boeing 777</button>
```

```
click:picture
```

```
click:status
```

But what if later we wanted to turn off these click event handlers?

Removing event handlers

```javascript
function picture() { console.log('Show Plane'); }
function status() { console.log('In Service'); }

$(document).ready(function() {
  $('button').on('click', picture);
  $('button').on('click', status);
  ...
  $('button').off('click');
});
```

Removes all of the callbacks

```html
<button>Boeing 777</button>
```

~~click:picture~~

~~click:status~~

jQuery Object Methods

`off(<event name>)`   *Stops watching for the given event*

But what if we only want to turn off the status handler?

Namespacing Events

```javascript
function picture() { console.log('Show Plane'); }
function status() { console.log('In Service'); }

$(document).ready(function() {
  $('button').on('click.image', picture);
  $('button').on('click.details', status);
  ...
  $('button').off('click.image');
});
```

```html
<button>Boeing 777</button>
```

```
click.image:picture
```

```
click.details:status
```

Only removes event handlers called click.image

Would do the same thing

```javascript
$('button').off('.image');
```

Removes all types of event handlers that end in .image

Removing Namespaced Events

```javascript
function picture() { console.log('Show Plane'); }
function status() { console.log('In Service'); }
function zoom() { console.log('Zoom Picture'); }

$(document).ready(function() {
    $('button').on('click.image', picture);
    $('button').on('click.details', status);
    $('button').on('mouseover.image', zoom);

    ...
    $('button').off('.image');
});
```

Removes all types of event
handlers that end in .image

`<button>Boeing 777</button>`

~~click.image:picture~~

`click.details:status`

~~mouseover.image:zoom~~

Triggering Events

```
function picture() { console.log('Show Plane'); }
function status() { console.log('In Service'); }
function zoom() { console.log('Zoom Picture'); }

$(document).ready(function() {
  $('button').on('click.image', picture);
  $('button').on('click.details', status);
  $('button').on('mouseover.image', zoom);
  ...
  $('button').trigger('click');
});
```

jQuery Object Methods

`trigger(<event name>)`

Will trigger the given event on the target

`click.image:picture`

`click.details:status`

`mouseover.image:zoom`

Similar to if the user clicked on the button

We can also trigger individual namespaced events

```
$('button').trigger('click.details');
```

Triggers the status function

jQuery Travels - Vacation Packages

Packages

Show All Prices

Hawaiian Vacation

SHOW PRICE

European Getaway

SHOW PRICE

Visit Japan

SHOW PRICE

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

Implementing our vacation pricing

```html
<li class='vacation' data-price='399'>
  <h3>Hawaiian Vacation</h3>
  <button>Show Price</button>
</li>
<li class='vacation' data-price='749'>
  <h3>European Vacation</h3>
  <button>Show Price</button>
</li>

<a href='#' class='show-prices'>Show All Prices</a>
```

Need Event Handlers

First lets define the handler on the Show Price button

```javascript
$('.vacation').on('click.price', 'button', showPrice)
```

We are namespacing the click event, since it is part of the price responsibility

Also using the proper delegation syntax, not   `$('.vacation button').on(...` ❌

Implementing our showPrice method

```html
<li class='vacation' data-price='399'>
    <h3>Hawaiian Vacation</h3>
    <button>Show Price</button>
</li>
```

```javascript
$('.vacation').on('click.price', 'button', showPrice)

var showPrice = function() {
    var vacation = $(this).closest('.vacation');
    var price = vacation.data('price');
    var details = $('<p>Book 3 days for $'+(3 * price)+'</p>');
    vacation.append(details);
};
```

Hawaiian Vacation

SHOW PRICE

Book 3 days for $1197

How do we implement show all prizes?

```html
<li class='vacation' data-price='399'>
   <h3>Hawaiian Vacation</h3>
   <button>Show Price</button>
</li>

<a href='#' class='show-prices'>Show All Prices</a>
```

Show All Prices

We need to call showPrice on each of the vacation list items

```javascript
var showPrice = function() {
    var vacation = $(this).closest('.vacation');
    var price = vacation.data('price');
    var details = $('<p>Book 3 days for $'+(3 * price)+'</p>');
    vacation.append(details);
};
```

We could create a custom event

```
<a href='#' class='show-prices'>Show All Prices</a>
```

Our typical event handler syntax

```
$(<dom element>).on("<event>.<namespace>", <method>)
```

The <event> can also be custom (instead of click, hover, etc)

```
$('.vacation').on('show.price', showPrice);
```

To trigger this event on all vacations

```
$('.vacation').trigger('show.price');
```

To trigger this event on a single vacation

```
$('.vacation:last').trigger('show.price');
```

Show All Prices

Our completed jQuery with custom events

```html
<a href='#' class='show-prices'>Show All Prices</a>
```

```javascript
var showPrice = function() {...};

$('.vacation').on('click.price', 'button', showPrice)
$('.vacation').on('show.price', showPrice);

$('.show-prices').on('click', function() {
    event.preventDefault();
    $('.vacation').trigger('show.price');
};
```

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