



Advanced Events

Managing Events

*Both functions will be run
when the button is clicked*

```
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
```

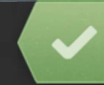
But what if later we wanted to turn off these click event handlers?

Removing event handlers

```
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



<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

```
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');  
});
```

<button>Boeing 777</button>

~~click.image:picture~~

click.details:status

Only removes event handlers
called *click.image*

Would do the same thing

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

Removes all types of event handlers that end in *.image*

Removing Namespaced 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').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');  
});
```

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 Object Methods



`trigger(<event name>)`

Will trigger the given event on the target

`click.image:picture`

`click.details:status`

`mouseover.image:zoom`

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

```
<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

```
$('.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

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

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

Hawaiian Vacation

SHOW PRICE

Book 3 days for \$1197

How do we implement show all prizes?

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

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



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

```
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');
```



Our completed jQuery with custom events

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

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

jQuery Travels - Vacation Packages

Packages

Show All Prices

Hawaiian Vacation

SHOW PRICE

European Getaway

SHOW PRICE

Visit Japan

SHOW PRICE