



jQuery Plugins

jQuery Travels - Vacation Packages

Packages

Show All Prices

Hawaiian Vacation

SHOW PRICE



[Not Interested](#)

European Getaway

SHOW PRICE

Visit Japan

SHOW PRICE

Setting up a Plugin - HTML

index.html

```
<li class='vacation' data-price='399'>
  <h3>Hawaiian Vacation</h3>
  <button>Show Price</button>
  <a href='#' class='not-interested'>Not Interested</a>
</li>
```

When clicked, we'll add a `<p>` with the price

Clicking “Not Interested” will hide the vacation

Setting up a Plugin

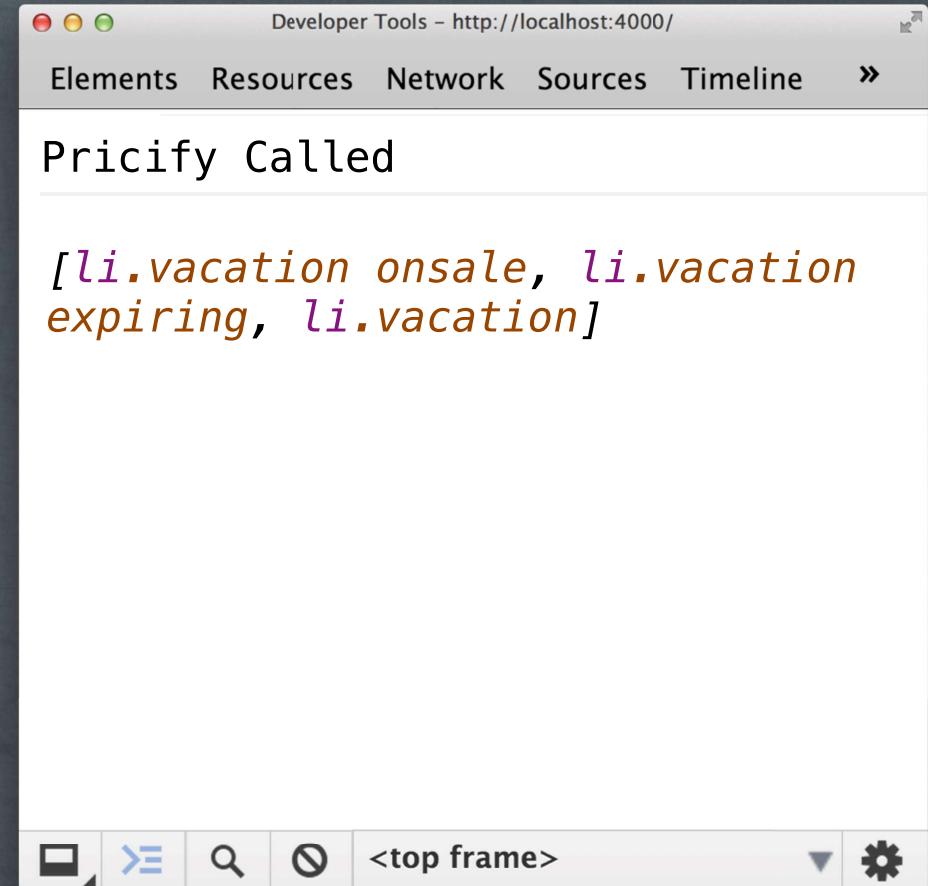
`application.js` *Makes the priceify method available*

```
$.fn.priceify = function() {  
  console.log('Pricify Called');  
  console.log(this);  
};
```

*Within the plugin, 'this' will be the
jQuery object the plugin was called on*

```
$('.vacation').priceify();
```

We can 'priceify' all vacations at once



Adding a click handler to append price details

application.js

```
$.fn.priceify = function() {
  var vacation = this; 
  'this' will be $('#vacation')
  vacation.on('click.priceify', 'button', function() {
    var price = vacation.data('price');
    var details = $('

Book 3 days for $' + (3 * price) + '

');
    $(this).hide();
    vacation.append(details);
  });
}

$(document).ready(function() {
  $('.vacation').priceify();
});
```

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Fixing the vacation plugin

application.js

'this' will point to all .vacation elements

```
$fn.priceify = function() {  
    var vacation = this;  
    vacation.on('click.priceify', 'button', function() {  
        var price = vacation.data('price');  
        var details = $('

Book 3 days for $' + (3 * price) + '

');  
        $(this).hide();  
        vacation.append(details);  
    });  
};  
  
$(document).ready(function() {  
    $('.vacation').priceify();  
});
```



When we call append, it'll append it in multiple places!

Adding Iteration

application.js

```
$.fn.priceify = function() {  
  this.each(function() {  
    var vacation = this;  
    vacation.on('click.priceify', 'button', function() {  
      var price = vacation.data('price');  
      var details = $('

Book 3 days for $' + (3 * price) + '

');  
      $(this).hide();  
      vacation.append(details);  
    });  
  });  
};
```

*Loop over each .vacation element
setting each one to 'this'*

jQuery Object Method

`each(<function>)`

*Each vacation has its own click handler
and local variable scope*

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Plugins with Parameters

Plugin Use With Options

```
$('.vacation').priceify({ days: 5 });
```



Let's make our plugin accept an argument

```
$.fn.priceify = function(options) {  
    ...  
    var price = vacation.data('price');  
    var details = $('<p>Book ' + options.days + ' days for $' +  
        (options.days * price) + '</p>');
```

But what if we wanted to make it an optional parameter?

Default it to 3 days if not passed in

Plugins with Options

Plugin Use With Options

```
$('.vacation').priceify({ days: 5 });
```



Plugin Use Without Options

```
$('.vacation').priceify();
```



Let's make our plugin accept an optional argument

```
$.fn.priceify = function(options) { ... };
```

Using \$.extend

Utility Method

```
$.extend(target[, object1][, objectn])
```

Will combine all objects

```
$.extend({ days: 3 }, { price: 5 });
```



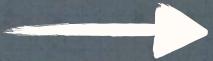
```
{ days: 3, price: 5 }
```

```
$.extend({ days: 3 }, {});
```



```
{ days: 3 }
```

```
$.extend({ days: 3 }, { days: 5 });
```



```
{ days: 5 }
```



That's how we can set a default value

Using `$.extend` in our plugin

```
$.fn.priceify = function(options) {  
    this.each(function() {  
        var settings = $.extend({ days: 3 }, options);  
        ...  
        var vacation = this;  
        var price = vacation.data('price');
```

Sets the default days to 3

Why not include the rest of these setting variables inside the settings object?

\$.extend

application.js

```
$.fn.priceify = function(options) {
  this.each(function() {
    var settings = $.extend({
      days: 3,
      vacation: this,
      price: $(this).data('price')
    }, options);
    vacation.on('click.priceify', 'button', function() { ... });
  });
};
```



Our event handler will need to be updated too

settings.vacation

settings.days

settings.price

\$.extend

application.js

```
$.fn.priceify = function(options) {
  this.each(function() {
    var settings = $.extend({
      days: 3,
      vacation: this,
      price: $(this).data('price')
    }, options);

    settings.vacation.on('click.priceify', 'button', function() {
      var details = $('<p>Book '+ settings.days +' days for $'+(settings.days *
settings.price + '</p>');
      $(this).hide();
      settings.vacation.append(details);
    });
  });
};
```



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[Show All Prices](#)

Calling a Plugin from Outside

index.html

We could trigger('click.priceify') on all buttons

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

application.js

```
$fn.priceify = function(options) {  
  this.each(function() {  
    var settings = $.extend(...);  
    settings.vacation.on('click.priceify', 'button', function() {  
      var details = $('

Book '+ settings.days +' days for $'+  
        (settings.days * settings.price)+'

');  
      $(this).hide();  
      settings.vacation.append(details);  
    });  
  });  
};
```

*... but we should create a new event
and call this same function*

Splitting out the show function

index.html

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

application.js

```
$.fn.priceify = function(options) {
  this.each(function() {
    var settings = $.extend(...);
    var show = function() {
      var details = $('<p>Book '+ settings.days +' days for $'+
        (settings.days * settings.price)+ '</p>');
      $(this).hide();
      settings.vacation.append(details);
    };
    settings.vacation.on('click.priceify', 'button', show);
  });
};
```

Split out the show function



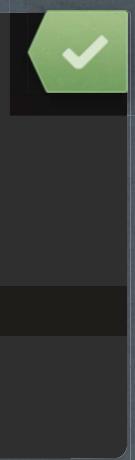
Calling a Plugin from Outside

index.html

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

application.js

```
$.fn.priceify = function(options) {      We can use the same show method
  this.each(function() {
    var settings = $.extend(...);
    var show = function() { ... };
    settings.vacation.on('click.priceify', 'button', show);
    settings.vacation.on('show.priceify', show);
  });
};
```



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

Trigger an event on the vacation
that the plugin watches for

TRY **jQuery**

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Removing behavior of a plugin

index.html

```
<li class="vacation" data-price='399'>
  ...
  <a href="#" class='remove-vacation'>Not Interested</a>
</li>
```

application.js

```
$ .fn.priceify = function(options) {
  ...
  var remove = function() {
    settings.vacation.hide().off('.priceify');
  };
  settings.vacation.on('click.priceify', '.remove-vacation', remove);
};
```

*Removes all *.priceify event handlers*



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