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

```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

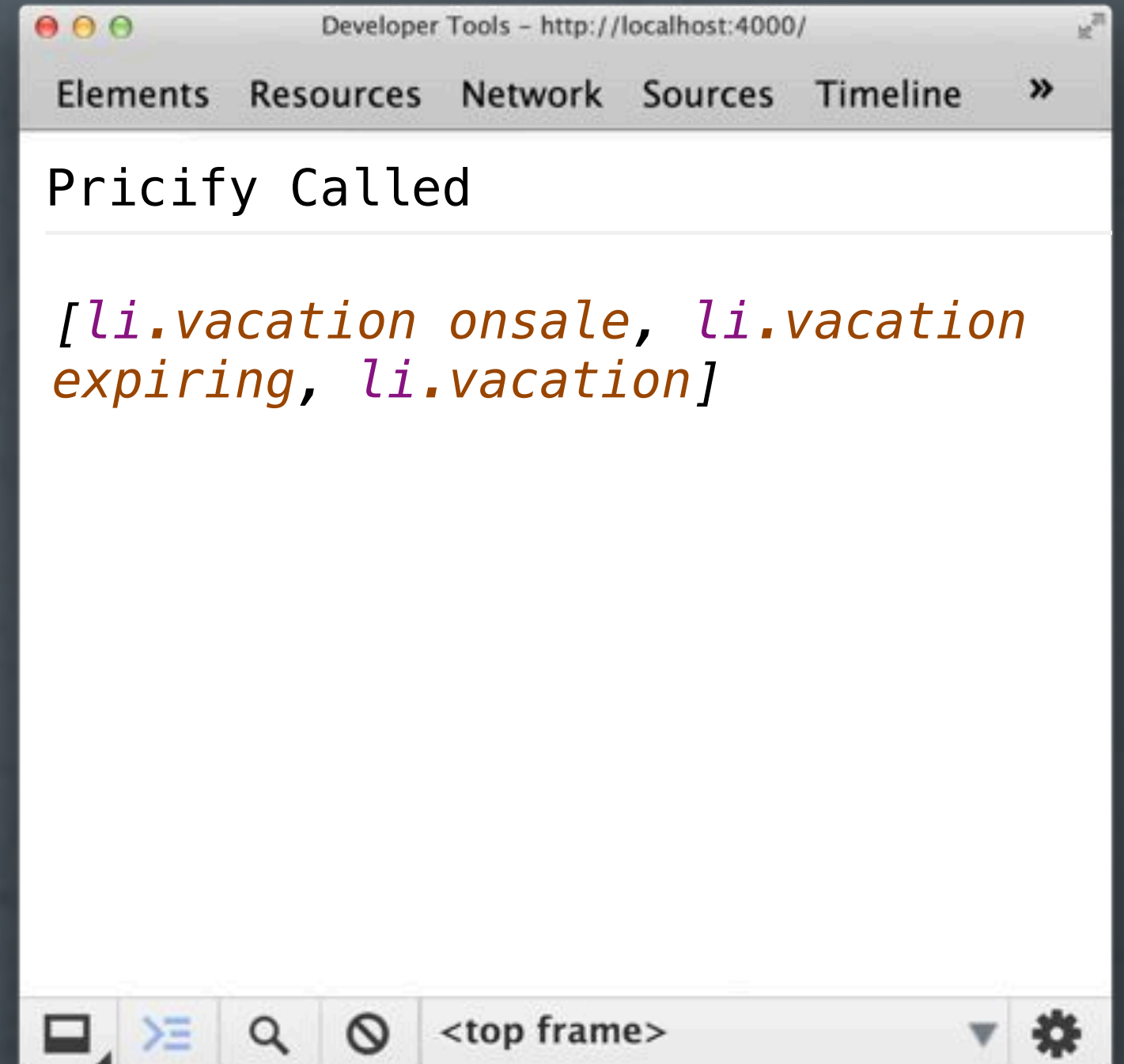*Clicking "Not Interested" will hide the vacation*

Setting up a Plugin

application.js

Makes the priceify method available

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

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

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

We can 'priceify' all vacations at once

Developer Tools – http://localhost:4000/

Elements   Resources   Network   Sources   Timeline   »

Pricify Called

[li.vacation onsale, li.vacation expiring, li.vacation]

Adding a click handler to append price details

application.js

```javascript
$.fn.priceify = function() {
  var vacation = this;        ← 'this' will be $('.vacation')
  vacation.on('click.priceify', 'button', function() {
    var price = vacation.data('price');
    var details = $('<p>Book 3 days for $'+(3 * price)+'</p>');
    $(this).hide();
    vacation.append(details);
  });
};

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

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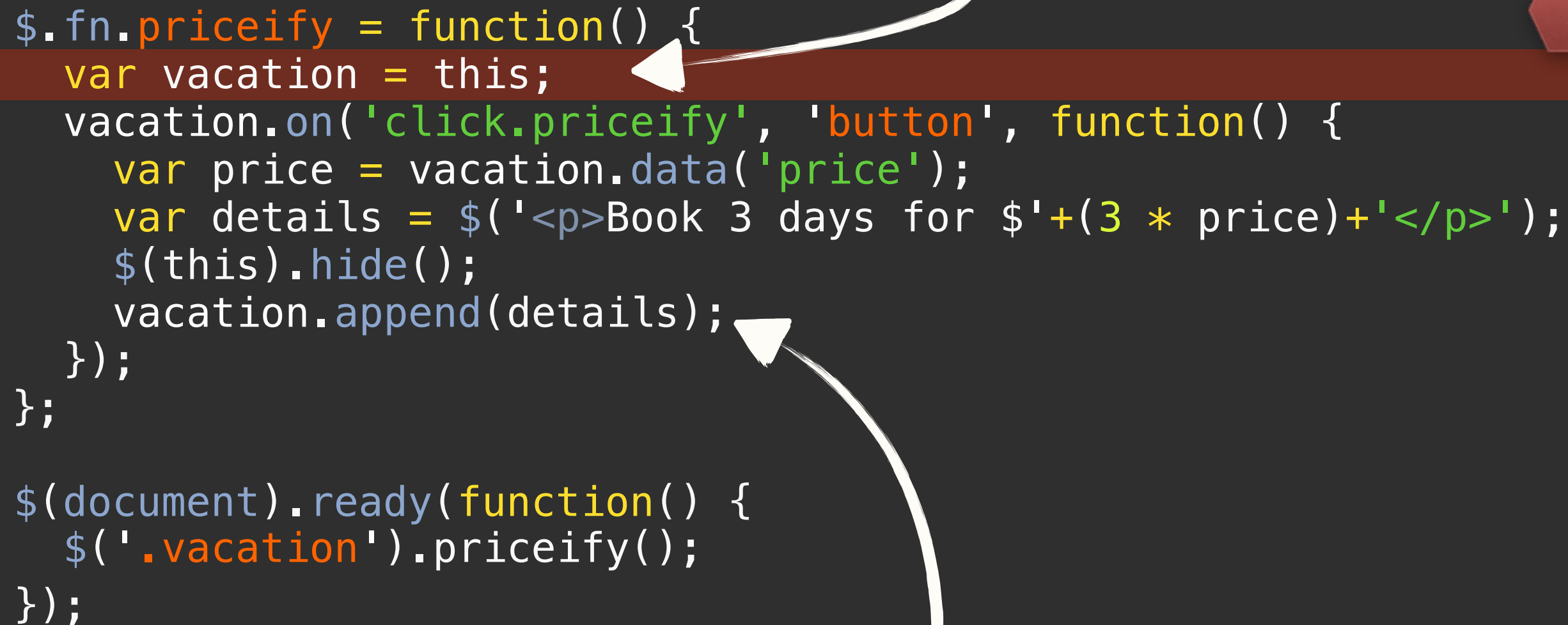
European Getaway

SHOW PRICE

Visit Japan

SHOW PRICE

Fixing the vacation plugin

application.js

'this' will point to all .vacation elements

```javascript
$.fn.priceify = function() {
  var vacation = this;
  vacation.on('click.priceify', 'button', function() {
    var price = vacation.data('price');
    var details = $('<p>Book 3 days for $'+(3 * price)+'</p>');
    $(this).hide();
    vacation.append(details);
  });
};

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

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

Adding Iteration

```javascript
$.fn.priceify = function() {
  this.each(function() {
    var vacation = this;
    vacation.on('click.priceify', 'button', function() {
      var price = vacation.data('price');
      var details = $('<p>Book 3 days for $'+(3 * price)+'</p>');
      $(this).hide();
      vacation.append(details);
    });
  });
};
```

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

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

Let's make our plugin accept an argument

```javascript
$.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

`$.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

Sets the default days to 3

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

    ...
    var vacation = this;
    var price = vacation.data('price');
```

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

$.extend

```javascript
$.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

```javascript
$.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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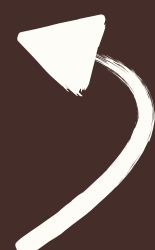
SHOW PRICE

Calling a Plugin from Outside

index.html

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

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

application.js

```javascript
$.fn.priceify = function(options) {
  this.each(function() {
    var settings = $.extend(...);
    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);
    });
  });
};
```

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

Splitting out the show function

index.html

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

application.js

```javascript
$.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

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

application.js

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

We can use the same show method

Custom Event

```javascript
$('.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

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

application.js

```javascript
$.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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