

level 3



# Taming CSS

# Separation of Concerns



*To style something based on user interaction, which would we use?*

# Changing our Style

**jQuery Travels - Vacation Packages**

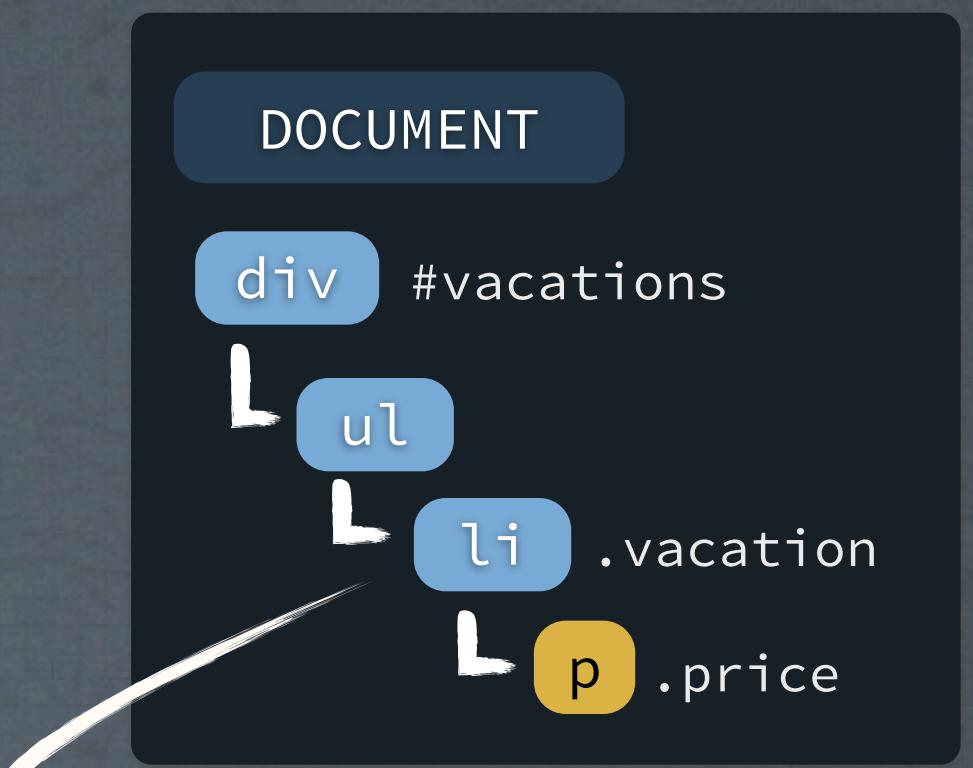
## Packages

- Hawaiian Vacation
- European Getaway
- Visit Japan

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



## DOM representation



*...and allow people to click  
on the <li> element*

# Changing the Style

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).css('background-color', '#252b30');  
    $(this).css('border-color', '1px solid #967');  
  });  
});
```

```
$(this).css('background-color', '#252b30')  
  .css('border-color', '1px solid #967');
```

```
$(this).css({  
  'background-color': '#252b30',  
  'border-color': '1px solid #967'});
```

*Passing in a JavaScript Object as an argument is a common jQuery pattern*

## DOM representation

### DOCUMENT

```
div #vacations  
  ul  
    li .vacation  
      p .price
```

## jQuery Object Methods

.css(<attr>, <value>)

.css(<attr>)

.css(<object>)

# Showing the Price

## application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).css({'background-color': '#252b30',
      'border-color': '1px solid #967'});
  });
});
```

```
$(this).find('.price').css('display', 'block');
```

```
$(this).find('.price').show();
```

*Same as CSS syntax, but easier to read and understand*

## DOM representation

### DOCUMENT

```
div #vacations
  L ul
    L li .vacation
      L p .price
```

## jQuery Object Methods

.show()

.hide()

# Showing the Price

DOM representation

application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).css({'background-color': '#252b30',
      'border-color': '1px solid #967'});
    $(this).find('.price').show();
  });
});
```

*Highlights the Vacation Package and shows the price*

DOCUMENT

```
div #vacations
  L ul
    L li .vacation
      L p .price
```

# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

European Getaway

Visit Japan

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

*Our **.vacation** elements are highlighted when we click on them*

TRYjQuery

# Moving Styles to External CSS

## application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).css({'background-color': '#563',
      'border-color': '1px solid #967'});
    $(this).find('.price').show();
  });
});
```



## DOM representation

### DOCUMENT

```
div #vacations
  L ul
    L li .vacation
      L p .price
```

## application.css

```
.highlighted {
  background-color: #563;
  border-color: 1px solid #967;
}
.highlighted .price {
  display: block;
}
```



```
$(this).addClass('highlighted');
```



# Moving Styles to External CSS

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).addClass('highlighted');  
  });  
});
```



*It's now much easier to manipulate with external CSS styles*

## application.css

```
.highlighted {  
  background-color: #563;  
  border-color: 1px solid #967;  
}  
.highlighted .price {  
  display: block;  
}
```



## DOM representation

### DOCUMENT

```
div #vacations  
└ ul  
  └ li .vacation  
    └ p .price
```

# Moving Styles to External CSS

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).addClass('highlighted');  
  });  
});
```



*We can only show price, but how would we hide price?*

```
$(this).toggleClass('highlighted');
```



*Adds the class if **\$(this)** doesn't have it, removes it if **\$(this)** already has it*

## DOM representation

### DOCUMENT

```
div #vacations  
└ ul  
  └ li .vacation  
    └ p .price
```

## jQuery Object Methods

.toggleClass()



.addClass(<class>)

.removeClass(<class>)

# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

Europoean Getaway

Visit Japan

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

*Our refactored page still works, and will be much easier to maintain*

TRYjQuery

# Challenges



# Animation

# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

European Getaway

Visit Japan

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

*What can we do to add a bit more movement to this?*

TRY jQuery

# Adding Movement

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).toggleClass('highlighted');  
  });  
});  
  
$(this).css({'top': '-10px'});
```



*The box will jump up 10 px*

```
$(this).animate({'top': '-10px'});
```



## DOM representation

### DOCUMENT

```
div #vacations  
└ ul  
  └ li .vacation  
    └ p .price
```

## jQuery Object Methods

.animate(<object>)

*Takes in a JavaScript object similar to the .css() method*

# Adding Movement

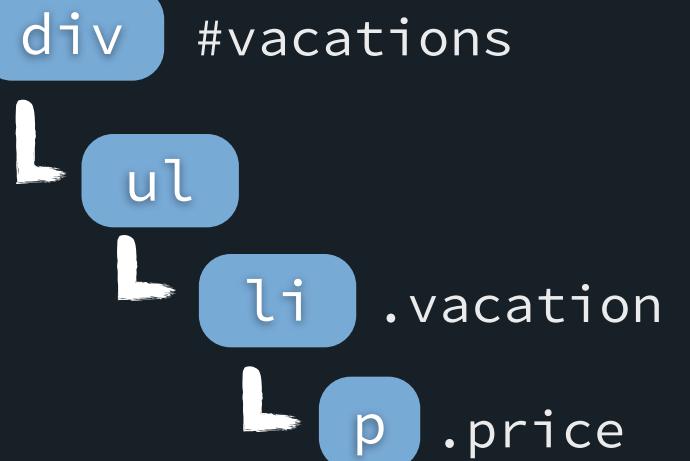
## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).toggleClass('highlighted');  
    $(this).animate({'top': '-10px'});  
  });  
});
```

*Will adjust a CSS property pixel by pixel in order to animate it*

## DOM representation

### DOCUMENT



# Moving Back Down

application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).toggleClass('highlighted');
    $(this).animate({'top': '-10px'});
  });
});
```



*How do we set '**top**' to '**0px**' if a second click occurs?*

```
if(<vacation has the class highlighted>) {
  // animate the vacation up
} else {
  // animate the vacation back down
}
```

DOM representation

DOCUMENT

```
div #vacations
  L ul
    L li .vacation
      L p .price
```

***“If statements” allow your code to make decisions at runtime***

# Moving Back Down

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).toggleClass('highlighted');  
    if(<vacation has the class highlighted>) {  
      $(this).animate({'top': '-10px'});  
    } else {  
      $(this).animate({'top': '0px'});  
    }  
  });  
});
```

```
$(this).hasClass('highlighted');  
↳ true
```

Returns **true** or **false**

## DOM representation

### DOCUMENT

```
div #vacations  
└ ul  
  └ li .vacation  
    └ p .price
```

## jQuery Object Methods

.hasClass(<class>)

# Moving Back Down

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).toggleClass('highlighted');  
    if ($(this).hasClass('highlighted')) {  
      $(this).animate({ 'top': '-10px' });  
    } else {  
      $(this).animate({ 'top': '0px' });  
    }  
  });  
});
```

## DOM representation



*Our vacation package will move up and down*

# Changing the Speed

```
$(this).animate({'top': '-10px'});
```

```
$(this).animate({'top': '-10px'}, 400);
```

```
$(this).animate({'top': '-10px'}, 'fast');
```

```
$(this).animate({'top': '-10px'}, 200);
```

```
$(this).animate({'top': '-10px'}, 'slow');
```

```
$(this).animate({'top': '-10px'}, 600);
```

We can optionally pass in the speed as a second argument to **animate()**

# Moving Back Down

application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).toggleClass('highlighted');
    if($(this).hasClass('highlighted')) {
      $(this).animate({'top': '-10px'}, 'fast');
    } else {
      $(this).animate({'top': '0px'}, 'fast');
    }
  });
});
```

DOM representation



*And with this we now have specific speeds for our animation*

# The Next Step with CSS Animations

## application.js

```
$(document).ready(function() {  
  $('#vacations').on('click', '.vacation', function() {  
    $(this).toggleClass('highlighted');  
    if($(this).hasClass('highlighted')) {  
      $(this).animate({'top': '-10px'}, 'fast');  
    } else {  
      $(this).animate({'top': '0px'}, 'fast');  
    }  
  });  
});
```

## DOM representation



*Isn't this still styling? Shouldn't it be inside of a stylesheet?*

# Animation Duration

## application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).toggleClass('highlighted');
  });
});
```

## application.css

```
.vacation {
  transition: top 0.2s;
}
.highlighted {
  top: -10px;
}
```



## DOM representation

### DOCUMENT

```
div #vacations
  ul
    li .vacation
      p .price
```



*Will only work with browsers that implement CSS transitions*

# Working with Modern Browsers

## application.js

```
$(document).ready(function() {
  $('#vacations').on('click', '.vacation', function() {
    $(this).toggleClass('highlighted');
  });
});
```

## application.css

```
.vacation {
  -moz-transition: top 0.2s;
  -o-transition: top 0.2s;
  -webkit-transition: top 0.2s;
  transition: top 0.2s;
}
.highlighted {
  top: -10px;
}
```

## DOM representation

### DOCUMENT

```
div #vacations
  ul
    li .vacation
      p .price
```

*Unlike jQuery, with CSS we have to account for specific browsers*