



# 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?*

# 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*

## 5.2 Animation

# 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

div #vacations



ul



li

.vacation



p

.price

# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

FROM \$399.99

European Getaway

FROM \$749.99

Visit Japan

FROM \$859.99

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

*Our animation can slide up but not slide down*



# 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  
}
```

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

## DOM representation

DOCUMENT

div #vacations



ul



li

.vacation



p

.price

## 5.2 Animation

# 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>)

## 5.2 Animation

# 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

DOCUMENT

div #vacations



ul



li

.vacation



p

.price

*Our vacation package will move up and down*



# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

FROM \$399.99

European Getaway

FROM \$749.99

Visit Japan

FROM \$859.99

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

*Could we speed this up a little? Our customers don't have all day.*

# 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()***

*Effects methods like **animate()**, **slideToggle()** and **fadeToggle()** can also be given a specific speed as a String or in milliseconds*

# 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

DOCUMENT

div #vacations



ul



li

.vacation



p

.price

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

# jQuery Travels - Vacation Packages

## Packages

Hawaiian Vacation

FROM \$399.99

European Getaway

FROM \$749.99

Visit Japan

FROM \$859.99

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

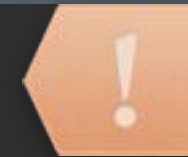
*Our jQuery animation is now using a 'fast' speed*



# 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

DOCUMENT

div #vacations



ul



li

.vacation



p

.price


*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;  
}
```



*Will only work with browsers that implement **CSS transitions***

## DOM representation

DOCUMENT

div #vacations

L

ul

L

li

.vacation

L

p

.price

# 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;  
}
```



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

## DOM representation

DOCUMENT

div #vacations

L

ul

L

li

.vacation

L

p

.price

## 5.2 Animation

# jQuery Air Atlantic - Vacation Packages

## Packages

Hawaiian Vacation

FROM \$399.99

European Getaway

FROM \$749.99

Visit Japan

FROM \$859.99

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

*CSS Animations are a huge topic, but worth looking into*