

Stop Writing Amateur Javascripts

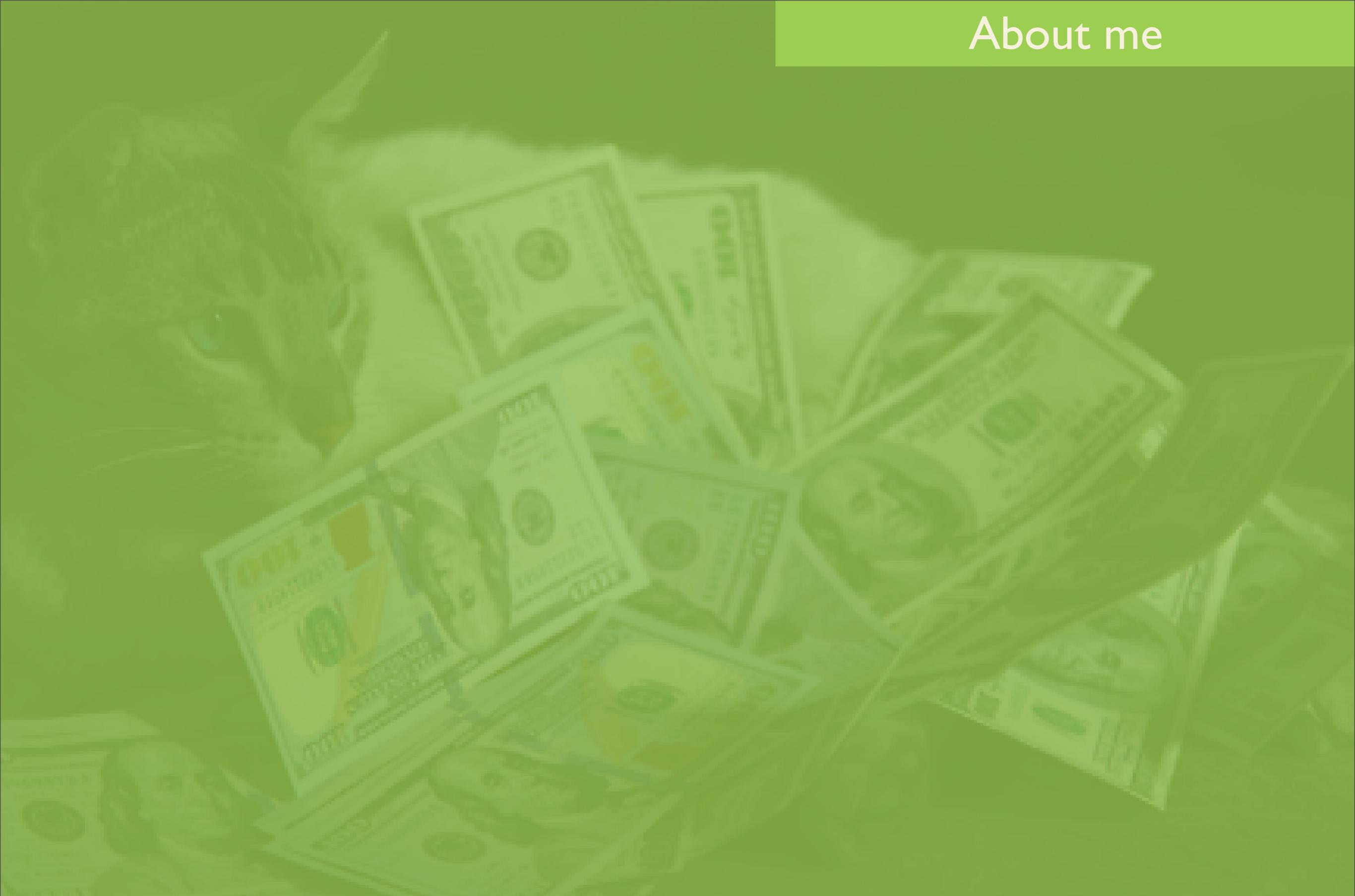


You can get far in JS not knowing
what you're doing.



People can do better,
they need to know how

Ask Questions



Evan

Filter

[Clear Filters](#)

[Legacy Donor](#)

[Has Kittens](#)

[Large Donors](#)

[Have not donated](#)

Sort

[Clear Sort](#)

[Net Worth](#)

[Donations](#)



Donations \$ 0
Net Worth \$ 439,676,101



Donations \$ 0
Net Worth \$ 76,842,875



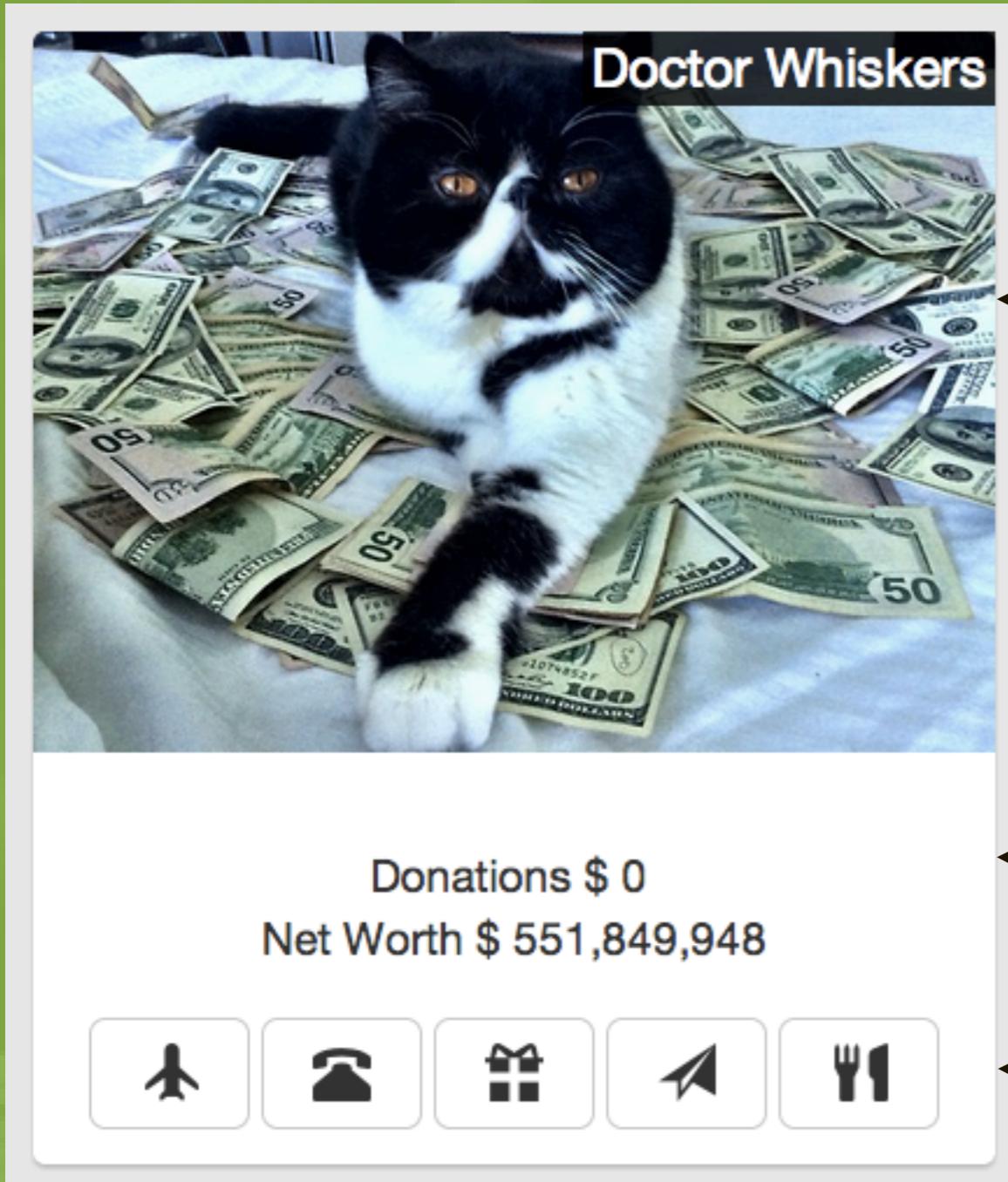
Donations \$ 0
Net Worth \$ 645,297,679



Donations \$ 0



Raise money from wealth cats



Interested in Philanthropy

Big Data insight

Advanced fundraising tools

Big Data

Events



Delegation vs. Direct



Events

.cards

.card

.buttons

order_tickets54()

.button.order_tickets

Direct

.cards

.card

.buttons

.button.order_tickets

order_tickets54()

click

Direct

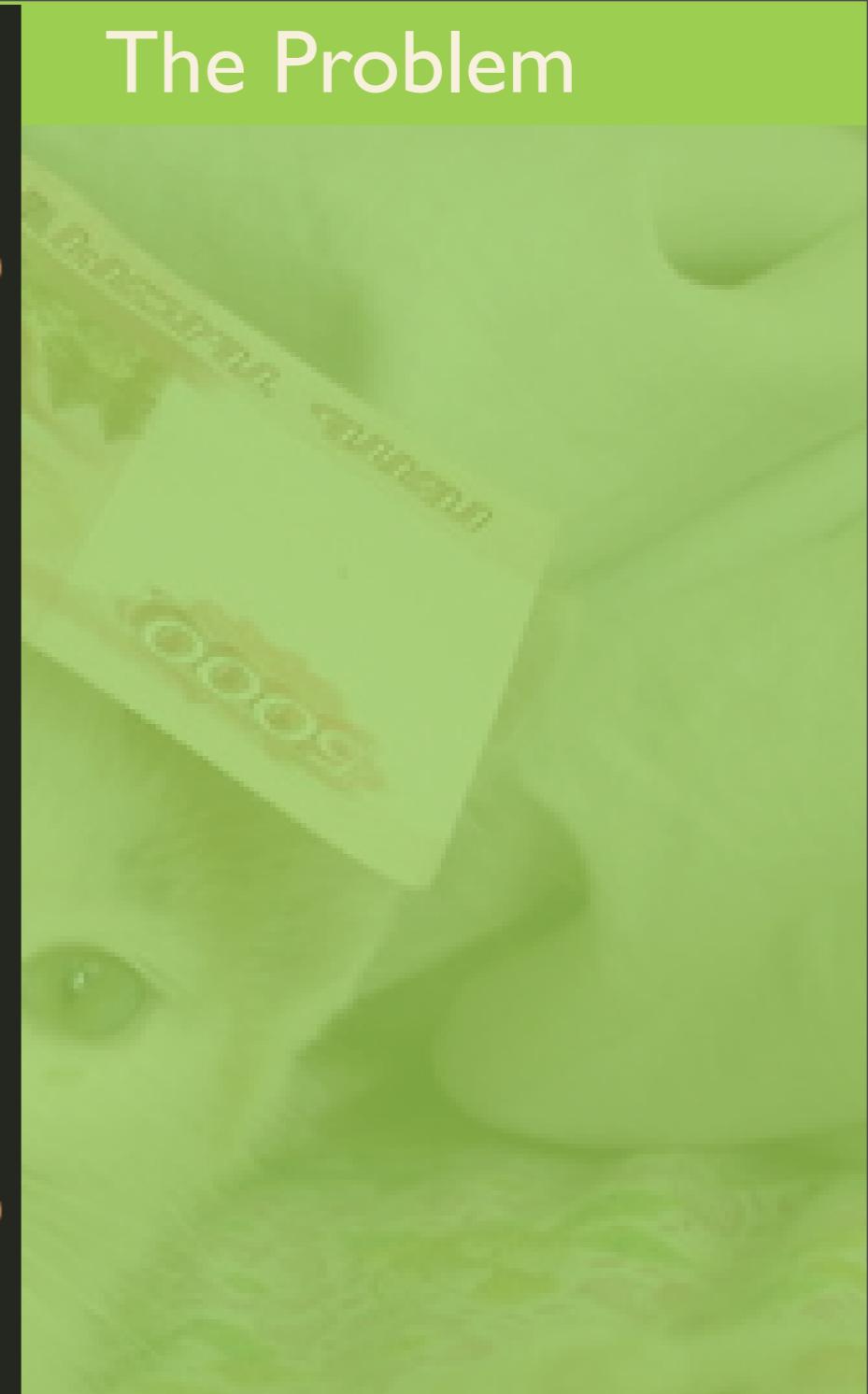
The Problem

```
<% @cats.each |do| cat| %>
<div
  class="button btn btn-default glyphicon glyphicon-plane"
  onclick="order_tickets<%=cat[:donarID] %>()" id="order_tickets">
</div>
<script>
  function order_tickets<%=cat[:donarID] %>(){
    alert("Your airplane to visit <%= cat[:name] %> is pulling up shortly")
  }
</script>
</div>
<% end %>
```

How does it look like?

The Problem

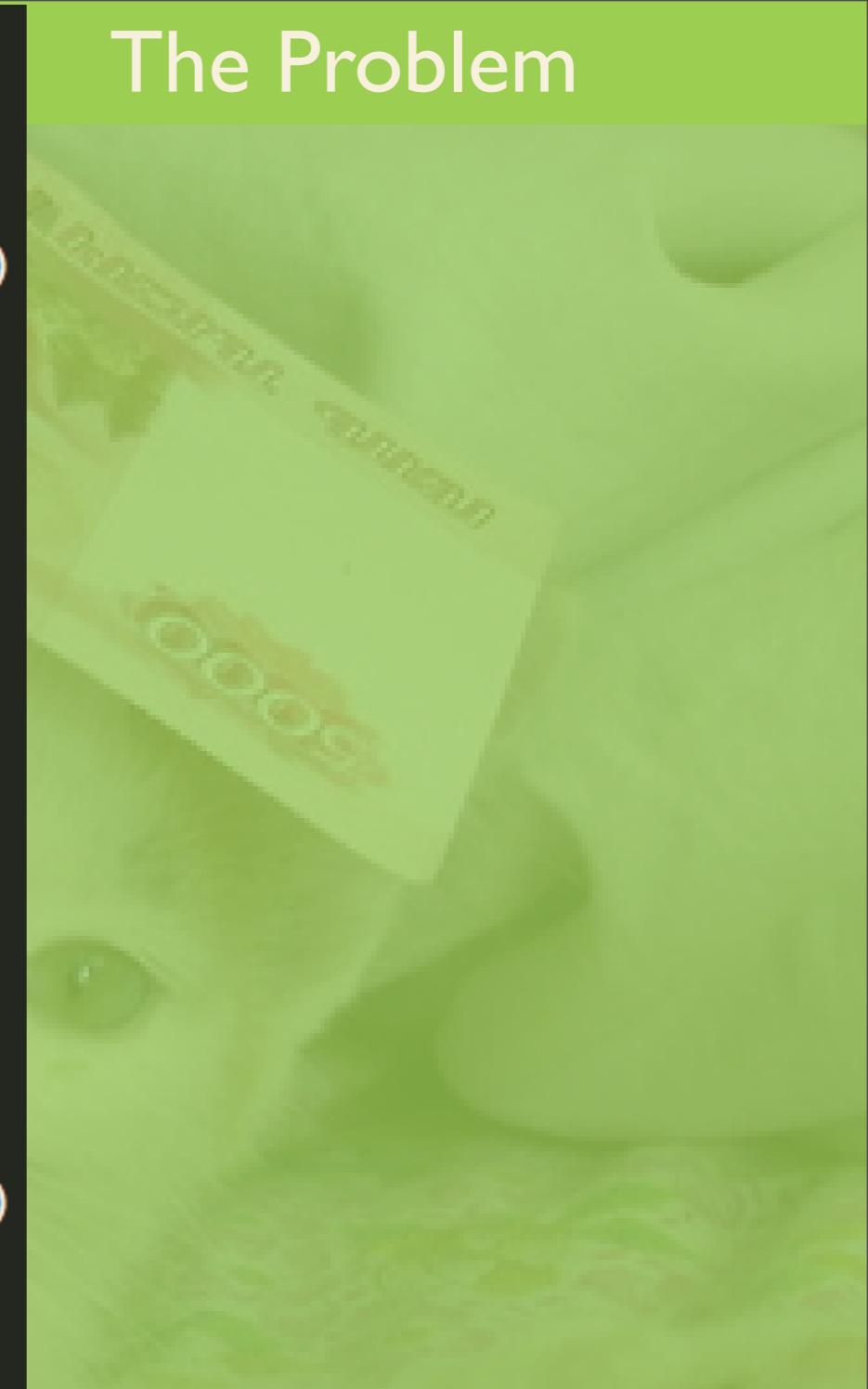
```
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets50()" id="order_tickets">  
    <script>  
        function order_tickets50(){  
            alert("Your airplane to visit Felix is pulling up shortly")  
        }  
    </script>  
</div>  
  
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets51()" id="order_tickets">  
    <script>  
        function order_tickets51(){  
            alert("Your airplane to visit Max is pulling up shortly")  
        }  
    </script>  
</div>  
  
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets52()" id="order_tickets">  
    <script>  
        function order_tickets52(){  
            alert("Your airplane to visit Minou is pulling up shortly")  
        }  
    </script>  
</div>
```



Why is this bad?

The Problem

```
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets50()" id="order_tickets">  
    <script>  
        function order_tickets50(){  
            alert("Your airplane to visit Felix is pulling up shortly")  
        }  
    </script>  
</div>  
  
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets51()" id="order_tickets">  
    <script>  
        function order_tickets51(){  
            alert("Your airplane to visit Max is pulling up shortly")  
        }  
    </script>  
</div>  
  
<div class="button btn btn-default glyphicon glyphicon-plane"  
    onclick="order_tickets52()" id="order_tickets">  
    <script>  
        function order_tickets52(){  
            alert("Your airplane to visit Minou is pulling up shortly")  
        }  
    </script>  
</div>
```



Repetition wastes memory,
causes slow app



Events

\$cards

```
.on("click", ".order_tickets",  
order_tickets)
```

.cards

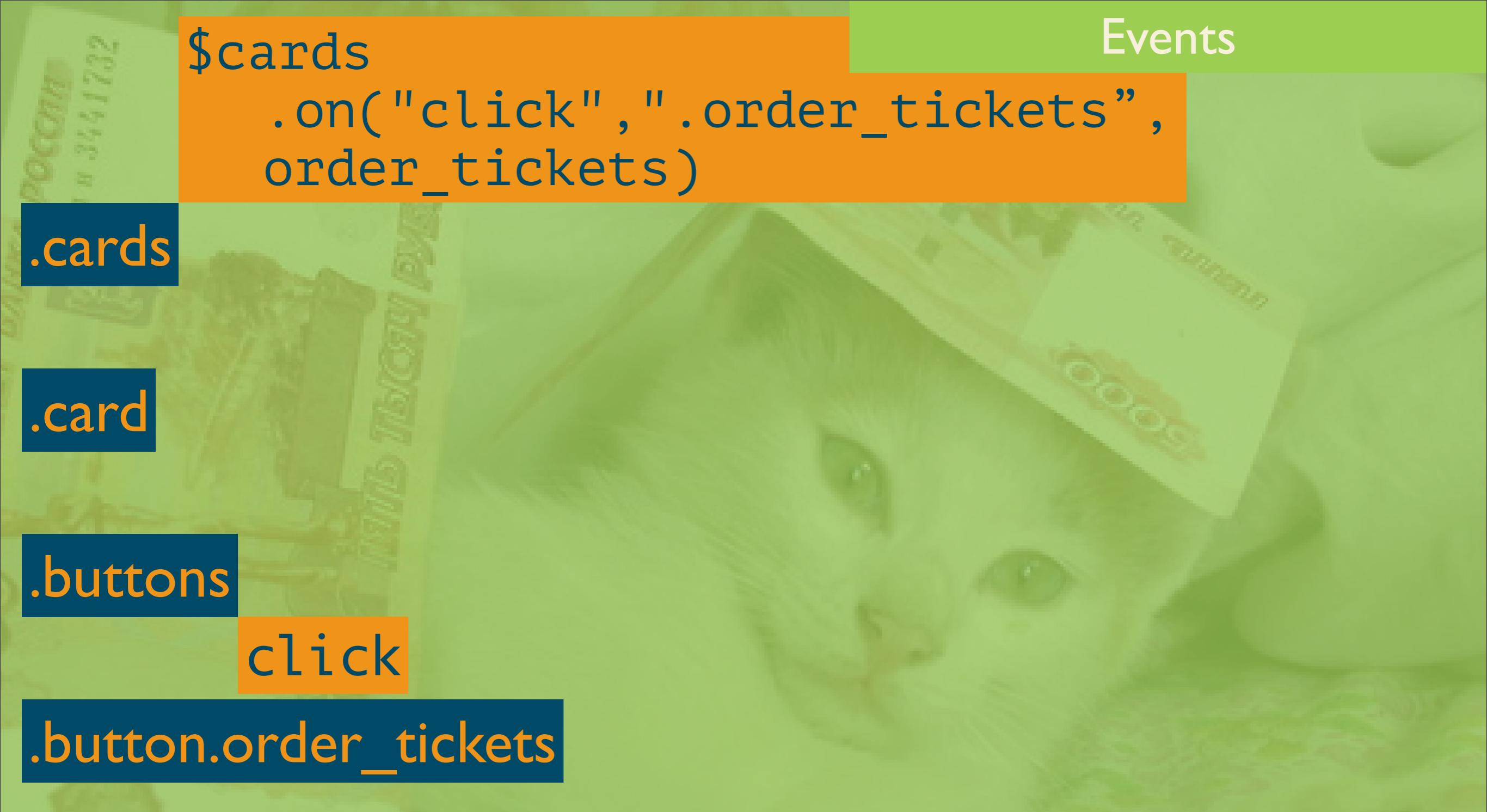
.card

.buttons

.button.order_tickets

click

Delegation



Events

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$cards
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Delegation



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Delegation

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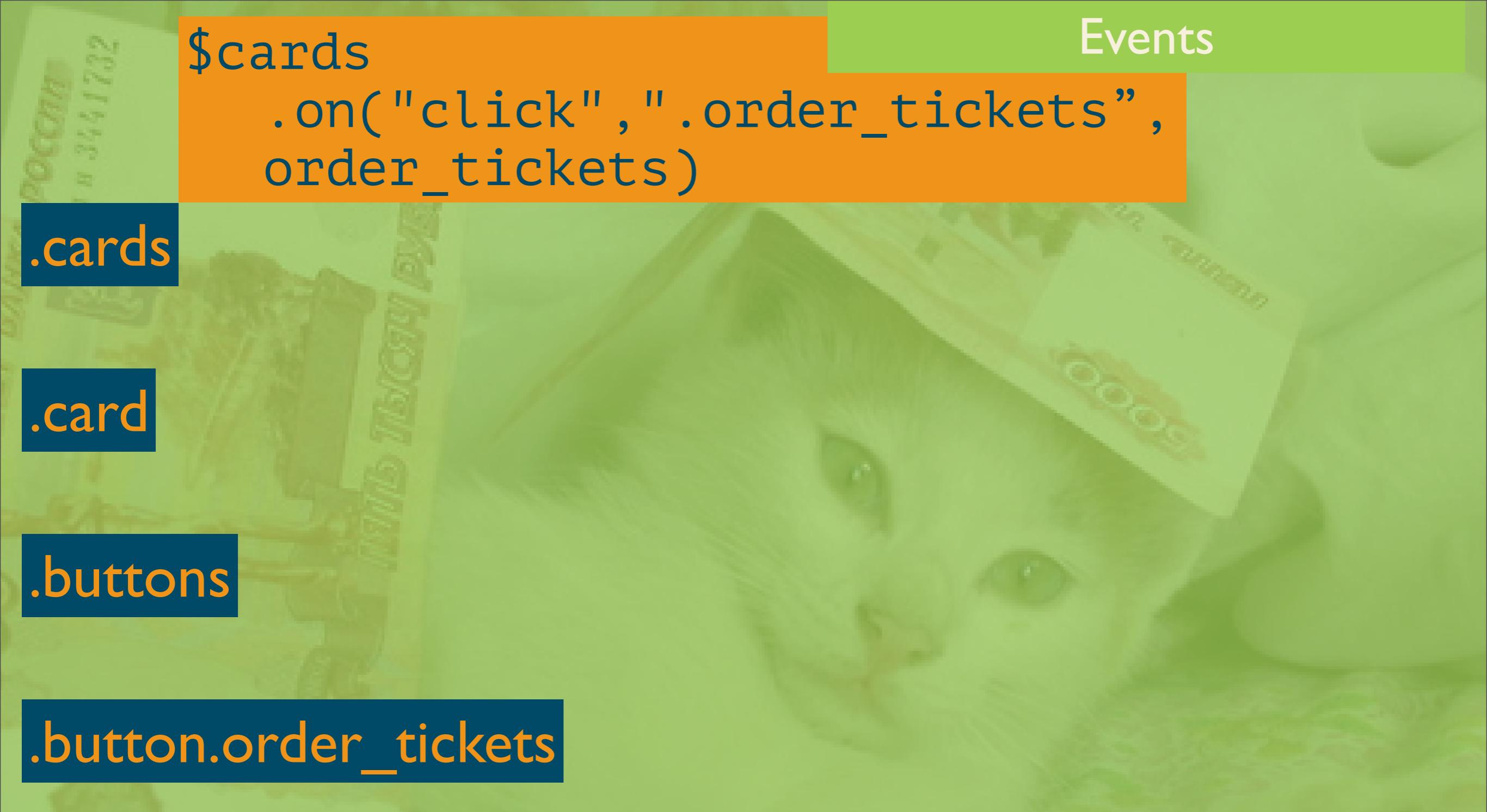
click

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Delegation



Events

\$cards

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Delegation

A large pile of US dollar bills, primarily \$100 bills, is scattered across a dark surface. The bills are crumpled and overlapping, creating a sense of abundance and wealth. The lighting is dramatic, highlighting the texture of the paper and the metallic ink on the bills.

DOM Caching

DOM Caching

Speed & Simplicity

action	computer time	human time
talk to the DOM	.4ms	3.8 days long weekend

<https://gist.github.com/hellerbarde/2843375>

Latency

```
console.time('not caching');
var networths = 0;
for(var i = 0; i<$("[data-networth]").length;i++){
  var networth = $('[data-networth]').eq(i).data("networth")
  networths += parseInt(networth)
}
console.timeEnd('not caching')

console.time('calculate w/ cached');
var networths = 0;
var elements = $('[data-networth]')
var networth;
for(var i = 0; i<elements.length;i++){
  networths += parseInt(elements.eq(i).data("networth"))
}
console.timeEnd('calculate w/ cached')
```

Let's test it out!

25 Cats with Cash

Filter

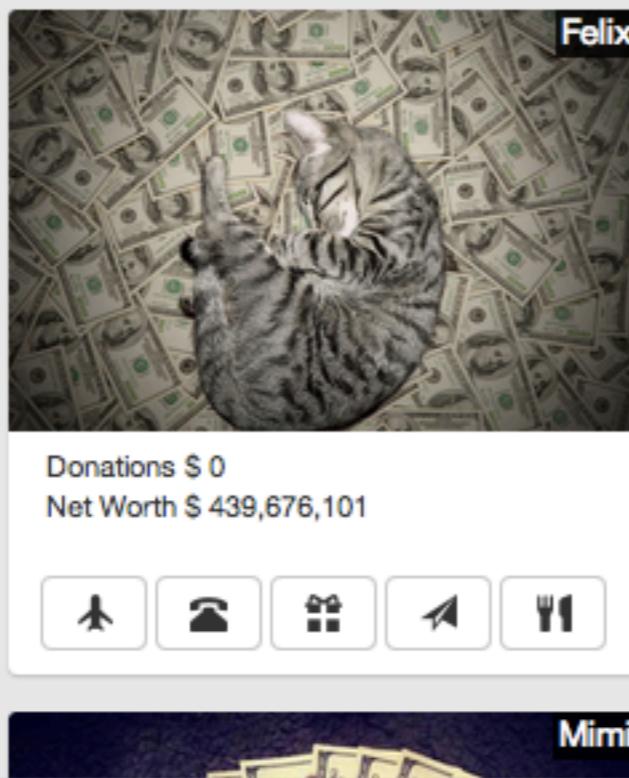
[Clear Filters](#)

[Legacy Donor](#)

[Has Kittens](#)

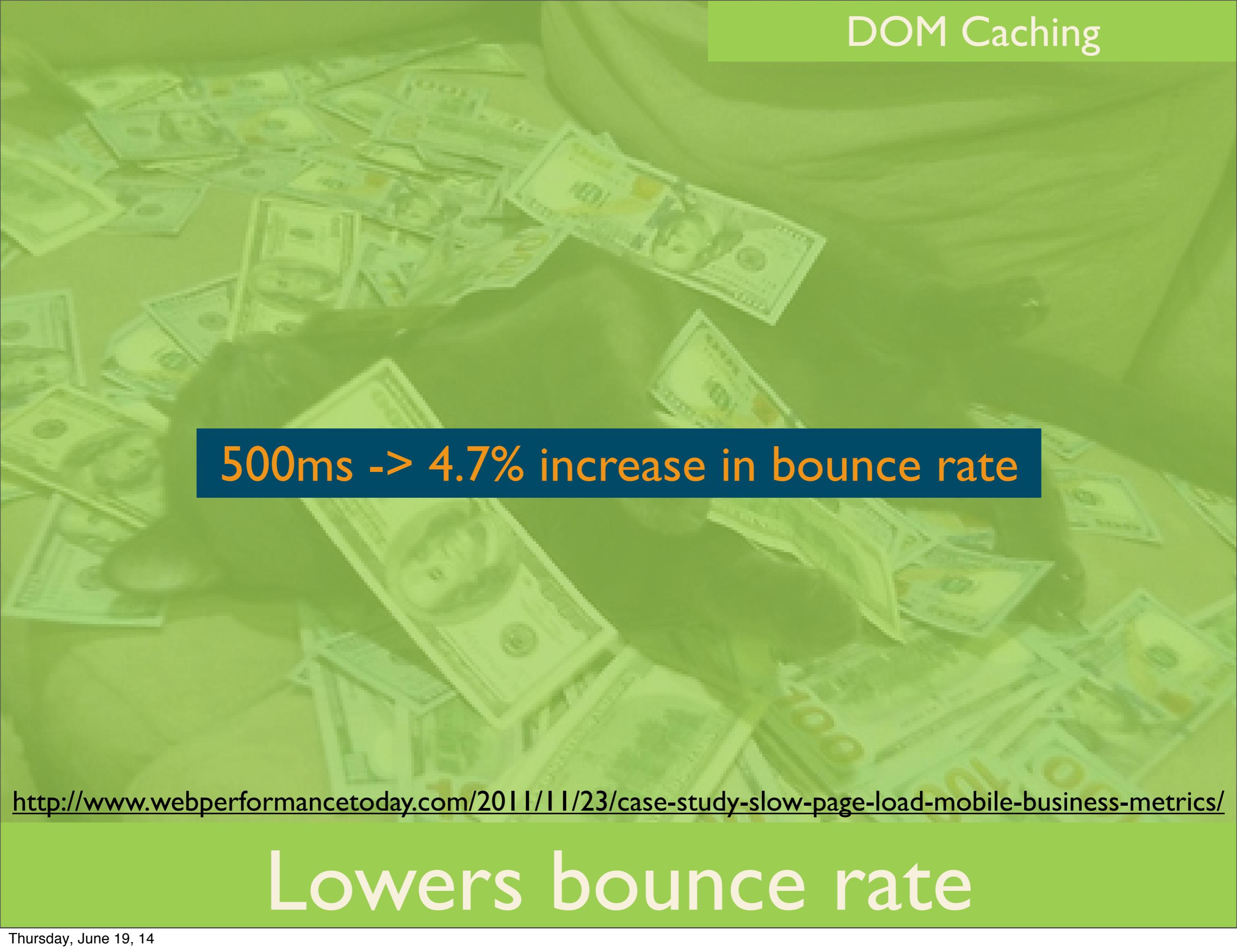
[Large Donors](#)

[Have not donated](#)



5.552ms saved!

| 3 times faster



500ms -> 4.7% increase in bounce rate

<http://www.webperformancetoday.com/2011/11/23/case-study-slow-page-load-mobile-business-metrics/>

Lowers bounce rate

```
$('#traffic_light input.on').bind('click', function(){ alert('') });
$('#traffic_light input.on').css('border', '3px dashed yellow');
$('#traffic_light input.on').css('background-color', 'orange');
$('#traffic_light input.on').fadeIn('slow');
```

Touches DOM needlessly

```
var $active_light = $('#traffic_light input.on');
$active_light.on('click', function(){ do_stuff() });
$active_light.css('border', '3px dashed yellow');
$active_light.css('background-color', 'orange');
$active_light.fadeIn('slow');
```

Touches DOM once

A fluffy white cat is lying on a pile of Australian dollar bills. The bills are scattered around the cat, with some under its head and others nearby. The cat appears to be resting comfortably on the money.

The Cats with Cash project

Let's Refactor!

1 git clone [git@github.com:Eunoia/catswithcash.git](https://github.com/Eunoia/catswithcash)

2 git checkout 9e6ecbd -b let_us_refactor

<https://github.com/Eunoia/catswithcash>

Get the code