

KEEPING THE WEB NATIVE

STEFAN BAUMGARTNER - @DDPRRT

@ddprrt



Netural



2011

Silhouette

OPTISCHE BRILLEN SONNENBRILLEN HÄNDLERSUCHE LOOK

SIE BEFINDEN SICH IN

Straße, Stadt, Händler

☐ Futura

☐ Titan Minimal Art.The Icon

01 Mayr Untied Optics

Hans-kappacher-straße 8
5600 St. Johann/pongau

02 Teufl

Bahnhofstraße 3
5500 Bischofshofen

03 Nauer Robert GmbH

Bahnhofstraße 26
5500 Bischofshofen

04 Nauer Robert GmbH

Markt 6
5620 Schwarzach

05 Optik Perendi

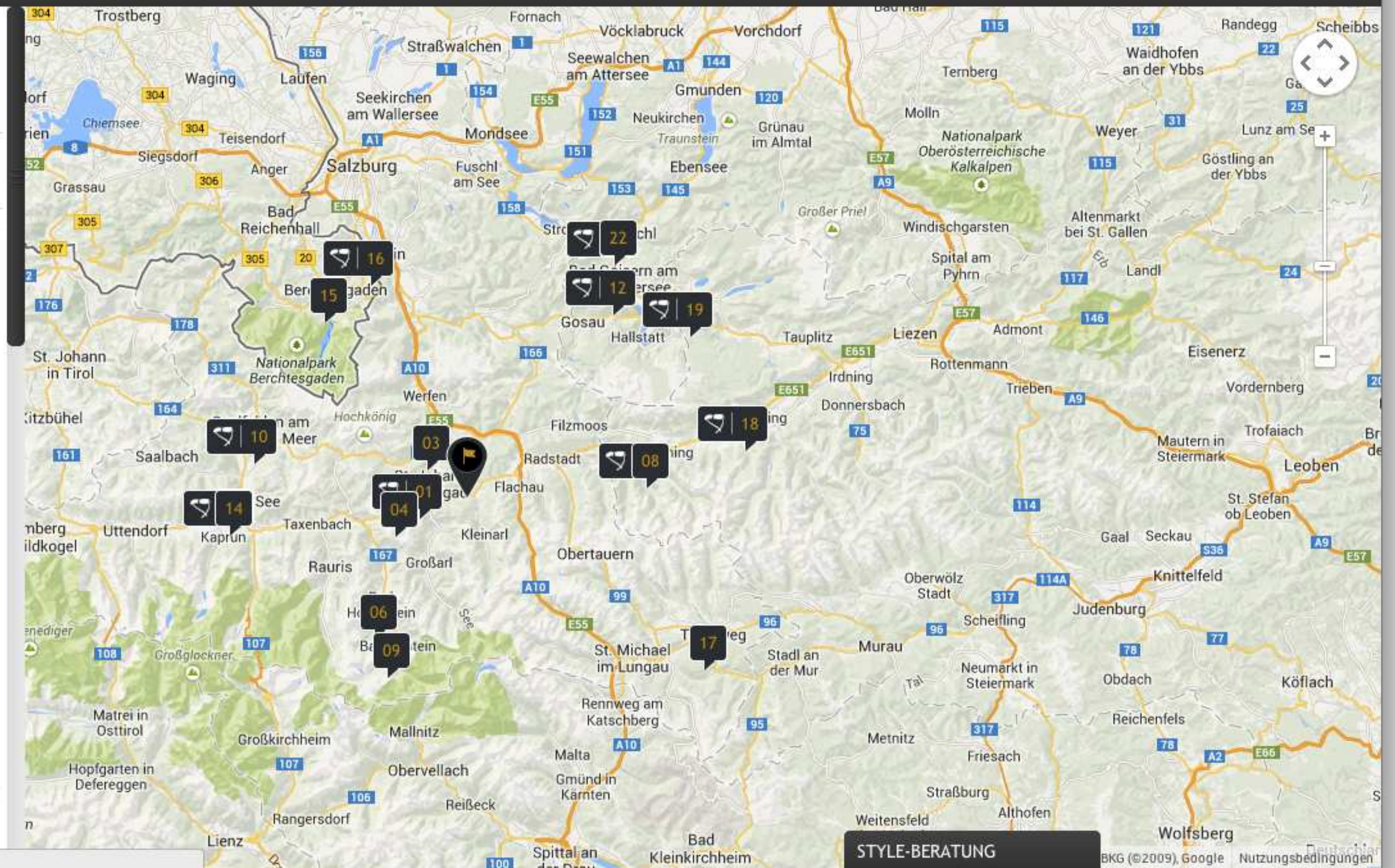
Kirchplatz 6
5630 Bad Hofgastein

06 Reinhold Optik

Kaiser-franz-platz 5
5630 Bad Hofgastein

07 Wutscher

Hauptplatz 41
8970 Schladming



2011

WUTSCHER

Optik KG

Toni-Schruf-Gasse 3
8680

Mürzzuschlag

[+43](03852)30430
muerzzuschlag@wutscher-optik.at

Style-Beratung

☐ 04.06.2014

HÄNDLER KONTAKTIEREN

Vorname *

E-Mail *

Nachname *

Ihre Nachricht *

Straße

PLZ

Stadt

☐ Ich möchte den Silhouette Newsletter abonnieren.

* Pflichtfeld

ABBRECHEN

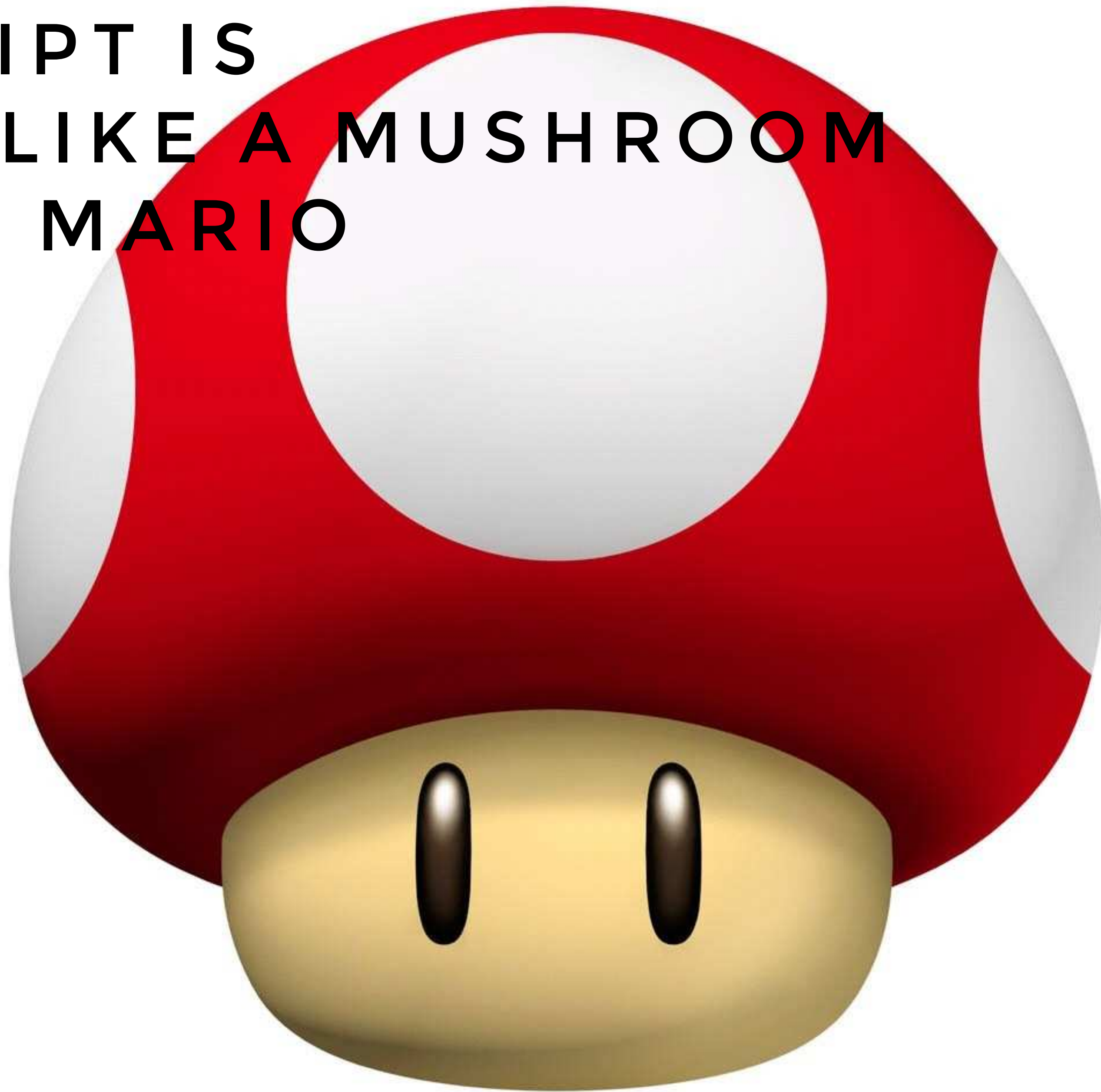
SENDEN

STYLE-BERATUNG

2011 WAS A BAD YEAR

- Lots and lots of JavaScript to make IE7 behave like a modern browser
- Lots and lots of Images to recreate CSS3 features
- People just wanted to do the same flash as before, but it had "to work on the iPad"

JAVASCRIPT IS
A LITTLE LIKE A MUSHROOM
IN SUPER MARIO



IT'S AN EXTRA CHANCE
WHEN DEALING WITH ART DIRECTORS





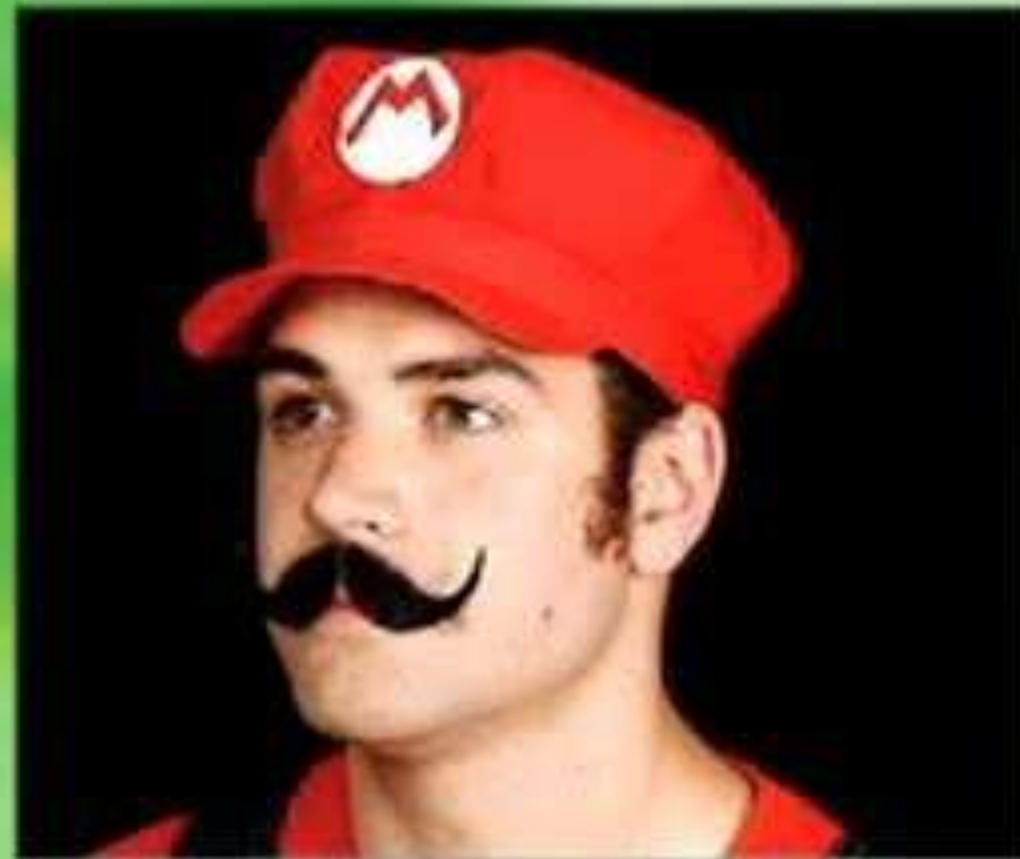
BUT ONE CAN GET GREEDY





PLAYER SELECT

FORMS: SELECTS



MARIO



LUIGI



PEACH



TOAD



YOSHI



D.K.



WARIO

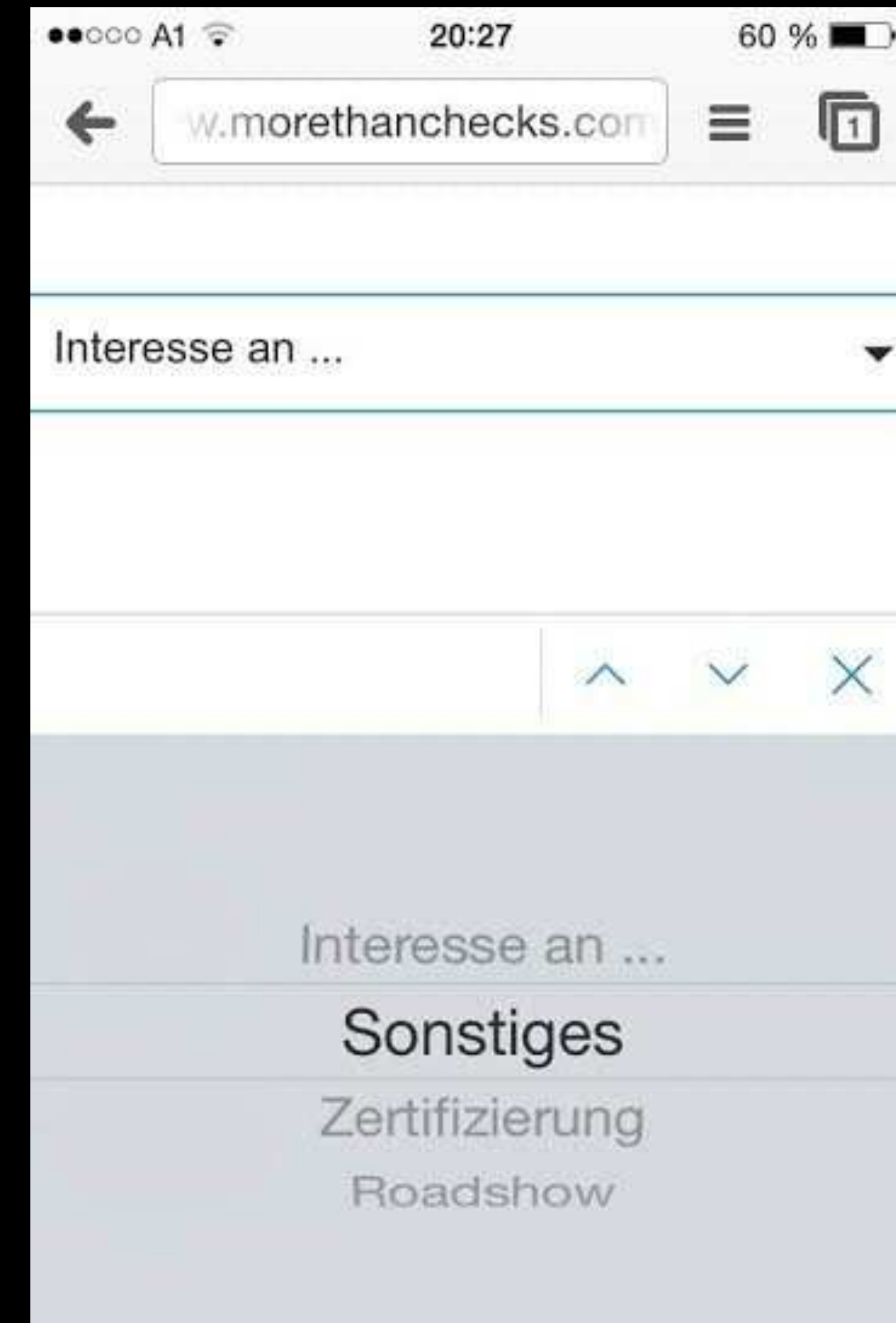


BOWSER

YOU WANT TO KEEP THE ORIGINAL SELECTS



VS





```
<select name="lang" id="lang">  
  <option value="*">Select your Language</option>  
  <option value="AT">Austrian</option>  
  <option value="DE">German</option>  
  <option value="EN">English</option>  
  <option value="FR">French</option>  
</select>
```



```
select {  
  appearance: none;  
}
```

Select your Language


```
select {  
  appearance: none;  
  border: 1px solid black;  
  border-radius: 0;  
  font-size: 20px;  
  padding: 5px 40px 5px 5px;  
  font-family: Helvetica;  
  background: white;  
}
```

Select your Language


```
select {  
  appearance: none;  
  border: 1px solid black;  
  border-radius: 0;  
  font-size: 20px;  
  padding: 5px 40px 5px 5px;  
  font-family: Helvetica;  
  background: white url(...selectBox-arrow.gif) no-repeat 95% center;  
}
```

Select your Language ⇅


```
select {  
  appearance: none;  
  border: 1px solid black;  
  border-radius: 0;  
  font-size: 20px;  
  padding: 5px 40px 5px 5px;  
  font-family: Helvetica;  
  background: white url(...selectBox-arrow.gif) no-repeat 95% center;  
}
```

Select your Language ⇅

<http://codepen.io/ddprrt/pen/leLab>

IE Hotfix for selection arrow

Select your Language  

```
::-ms-expand {  
    display: none;  
}
```

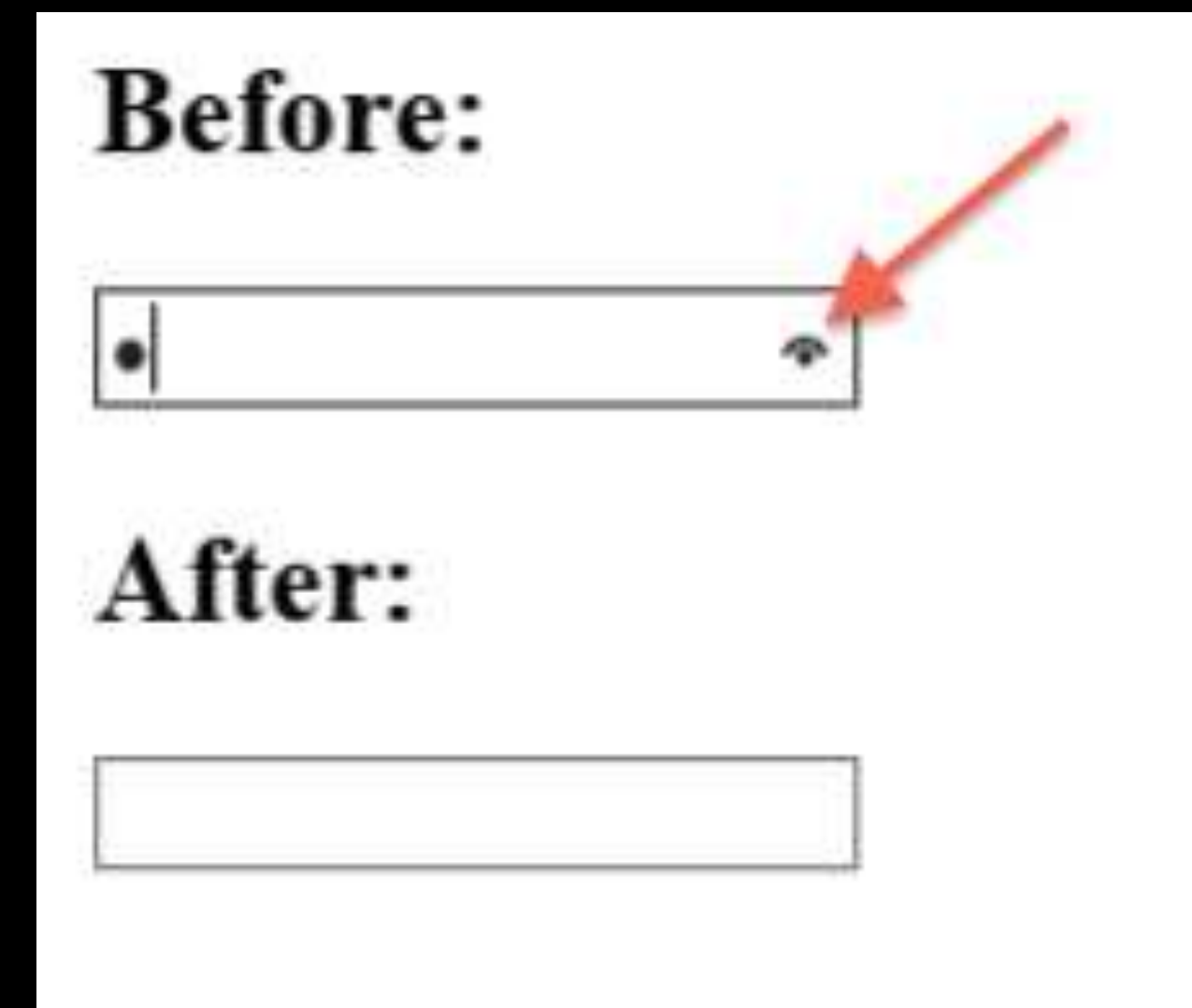

THERE IS MORE



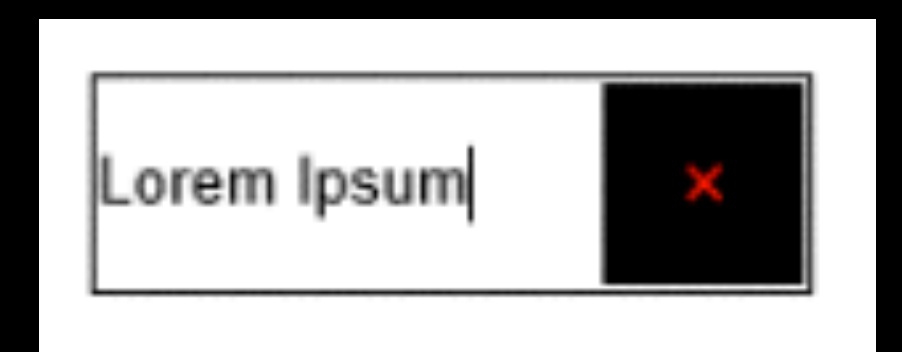
::-ms-check



::-ms-browse



::-ms-reveal



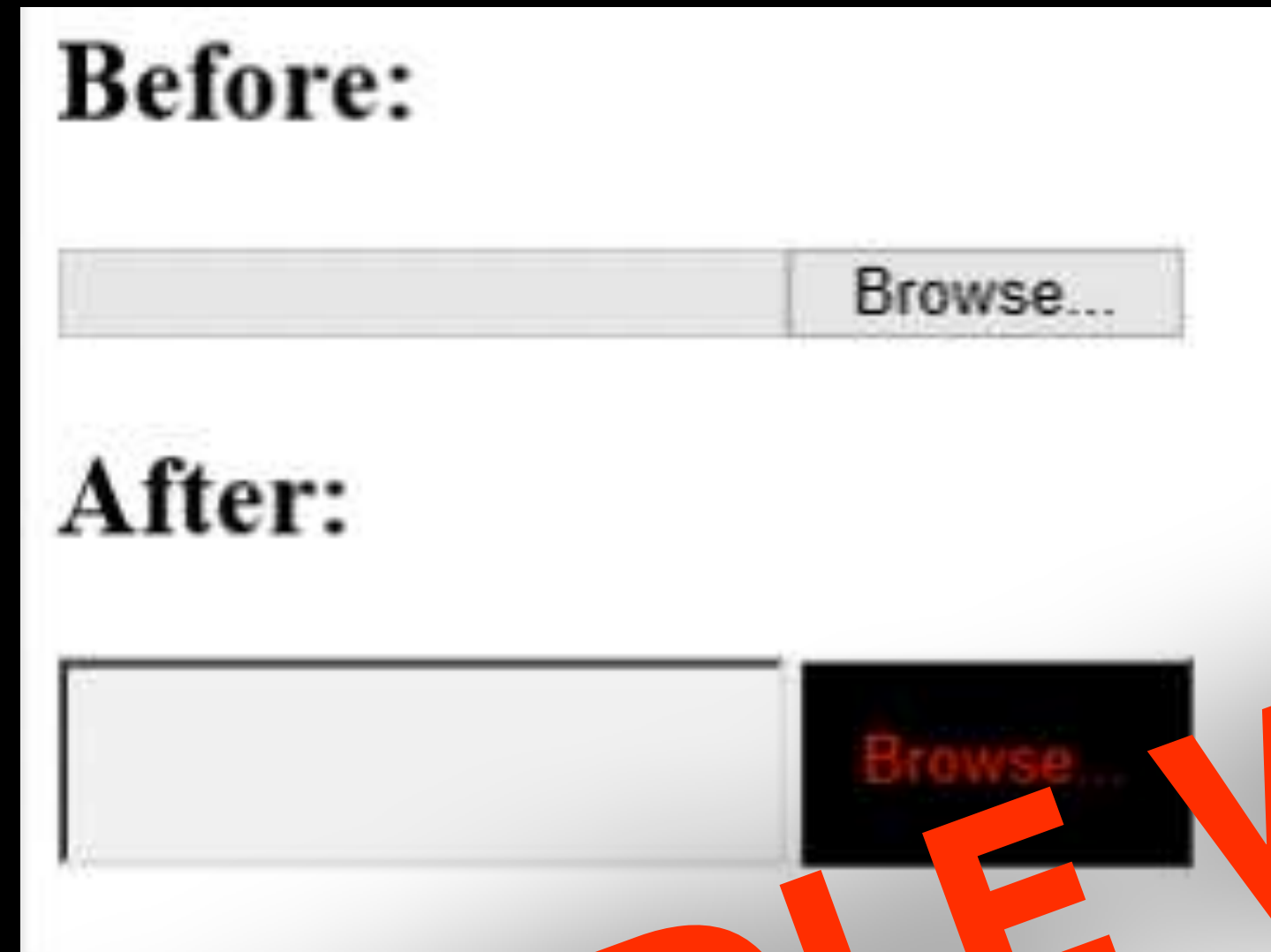
::-ms-clear

<http://bit.ly/1jKqgou>

THERE IS MORE



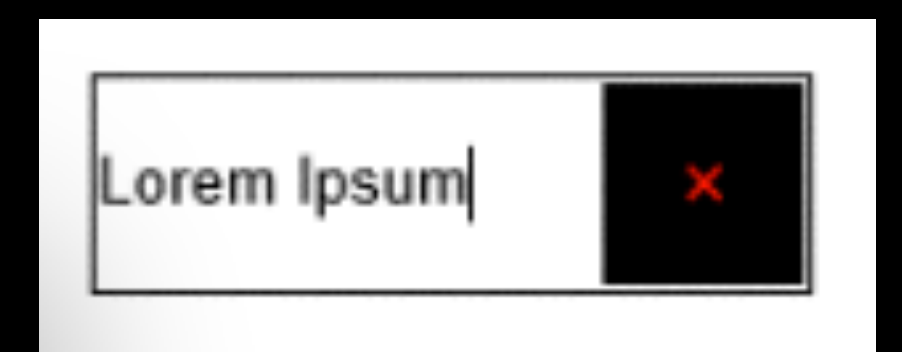
::-ms-check



::-ms-browse



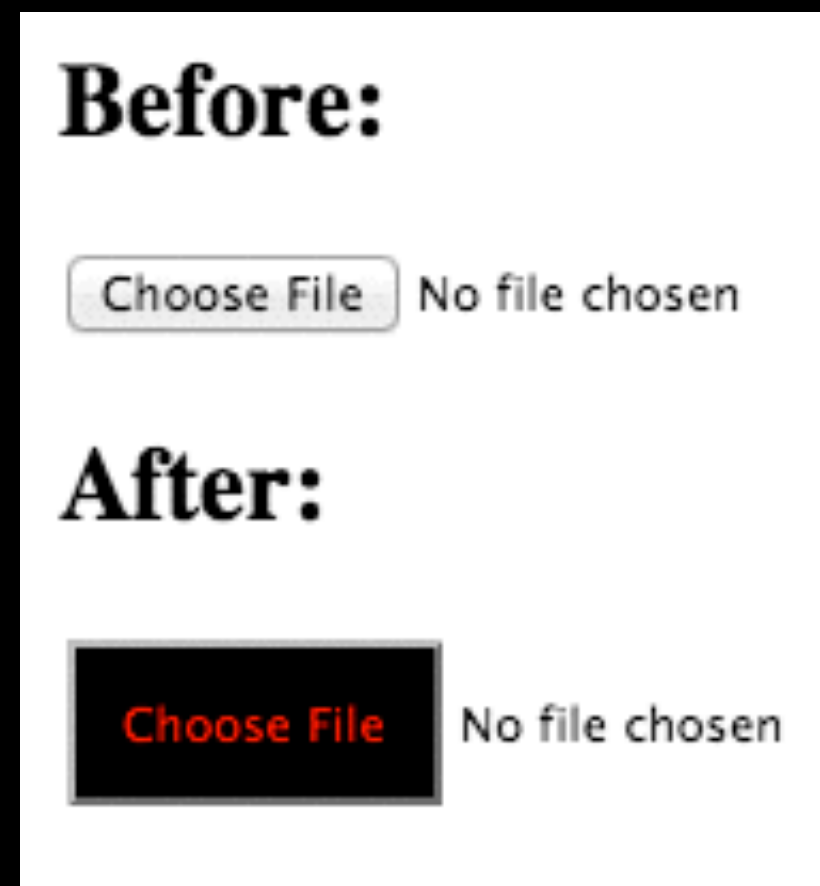
::-ms-reveal



::-ms-clear

HANDLE WITH CARE

<http://bit.ly/1jKqgou>



::-webkit-file-upload-button



::-ms-browse

STYLING FORM ELEMENTS

- Styling form elements with proprietary selectors might be good for one platform
- Don't expect any of those features to become standard
- Rely on standard CSS features when styling, and just tweak when necessary

FORMS: CHECKBOX/RADIOS

HEALTH

FLAMMABILITY

REACTIVITY

PERSONAL PROTECTION

☐ Accept our terms and conditions

```
<input type="checkbox" id="cb1" />
```

```
<label for="cb1">Accept our terms and conditions</label>
```


Accept our terms and conditions

```
input[type="checkbox"] {  
  position: absolute;  
  left: -100%;  
  top: -100%;  
  opacity: 0;  
}
```


☐ Accept our terms and conditions

```
input[type="checkbox"] + label:before {  
  content: '';  
  position: absolute;  
  width: 30px; height: 30px;  
  font-size: 30px; line-height: 30px;  
  margin-left: -40px; margin-top: 5px;  
}
```


☒ Accept our terms and conditions

```
input[type="checkbox"]:checked + label:before {  
  content: '\2713';  
  text-align: center;  
}
```


☐ Accept our terms and conditions

```
input[type="checkbox"]:focus + label:before {  
  outline: 3px solid blue;  
}
```


☐ Accept our terms and conditions

```
input[type="checkbox"]:focus + label:before {  
  outline: 3px solid blue;  
}
```

FULL DEMO:

<http://codepen.io/ddprrt/pen/xsiDz>

THE PROS

- **Native** click behaviour for labels - no need to reimplement "checking"
- Can use any image or style you like
- Keyboard accessible

THE PROS

- **Native** click behaviour for labels - no need to reimplement "checking"
- Can use any image or style you like
- Keyboard accessible

THE CONS

- Accesibility: Does need CSS or Icon Fonts for high contrast mode

THERE IS AN INVISIBLE LINK BETWEEN
LABEL AND INPUT



EXTENDING FURTHER

`<label for="navtoggler">☰</label>`



EXTENDING FURTHER

<label for="navtoggler">≡</label>



EXTENDING FURTHER

```
<label for="navtoggler">≡</label>
```

```
<input type="checkbox" id="navtoggler">
```

```
<nav>
```

...

```
</nav>
```



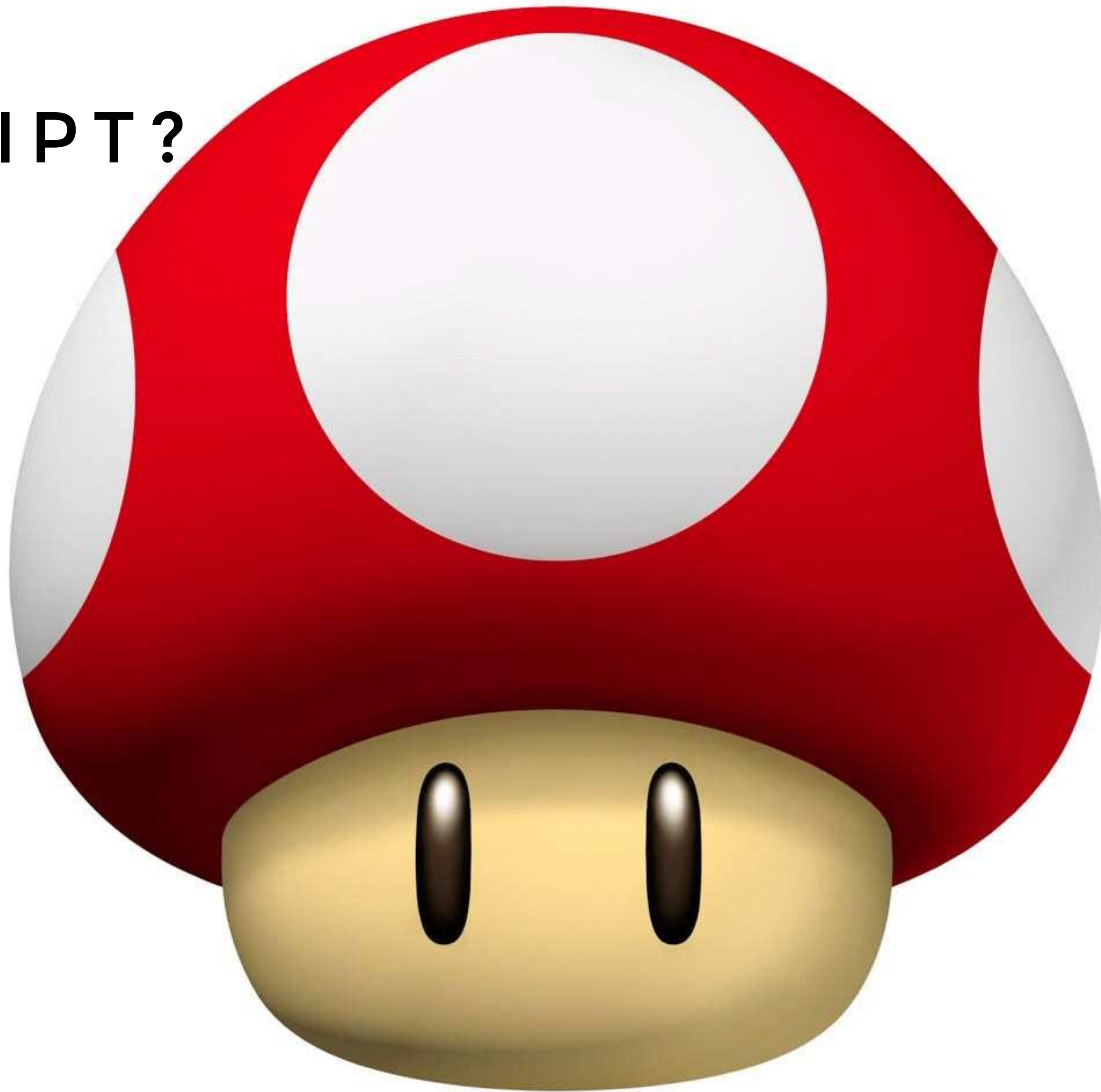
EXTENDING FURTHER

```
nav {  
  height: 0px;  
  max-height: 0px;  
  overflow: hidden;  
  transition: max-height 0.5s;  
}
```

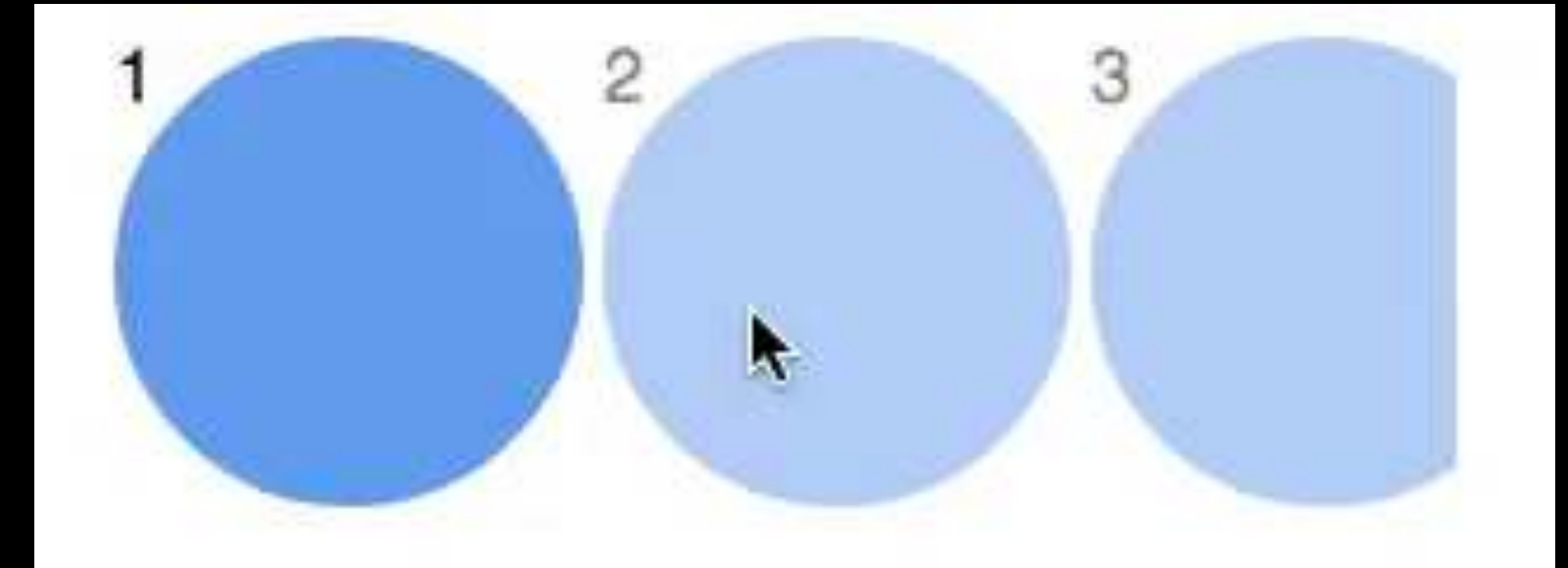
```
#navtoggler:checked + nav {  
  height: auto;  
  max-height: 1000px  
}
```



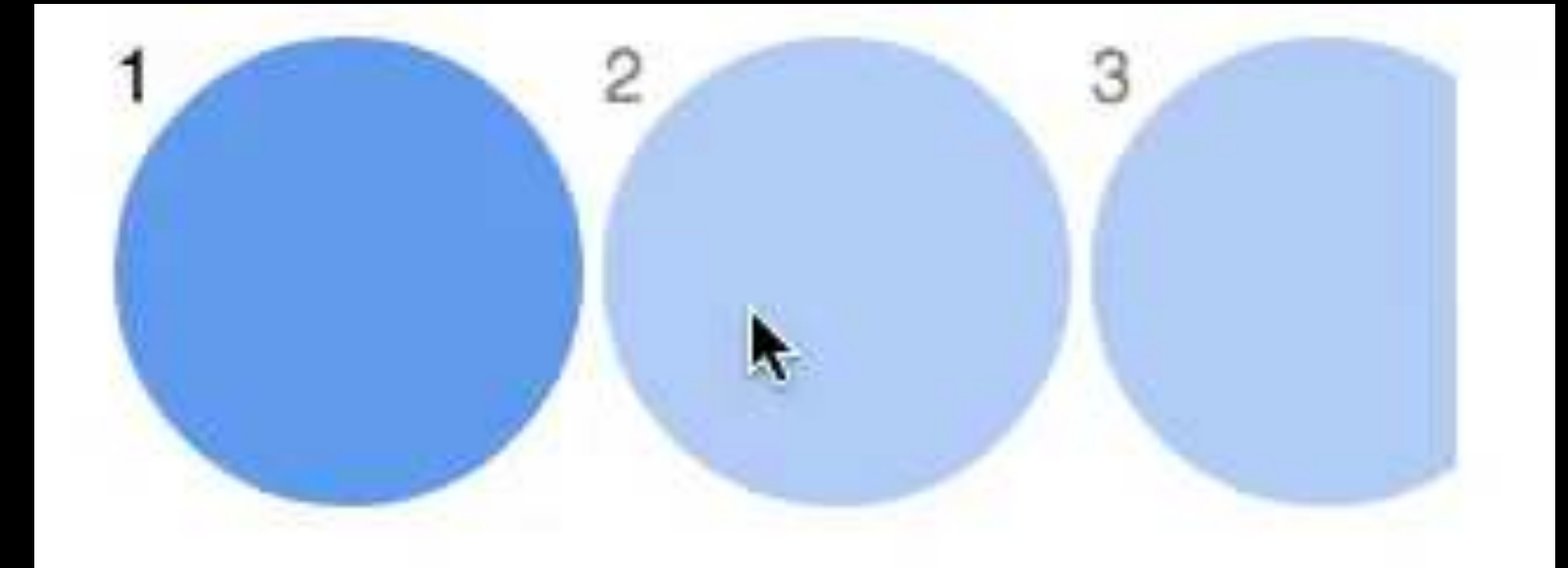
JAVASCRIPT?



EXTENDING THE IDEA ...

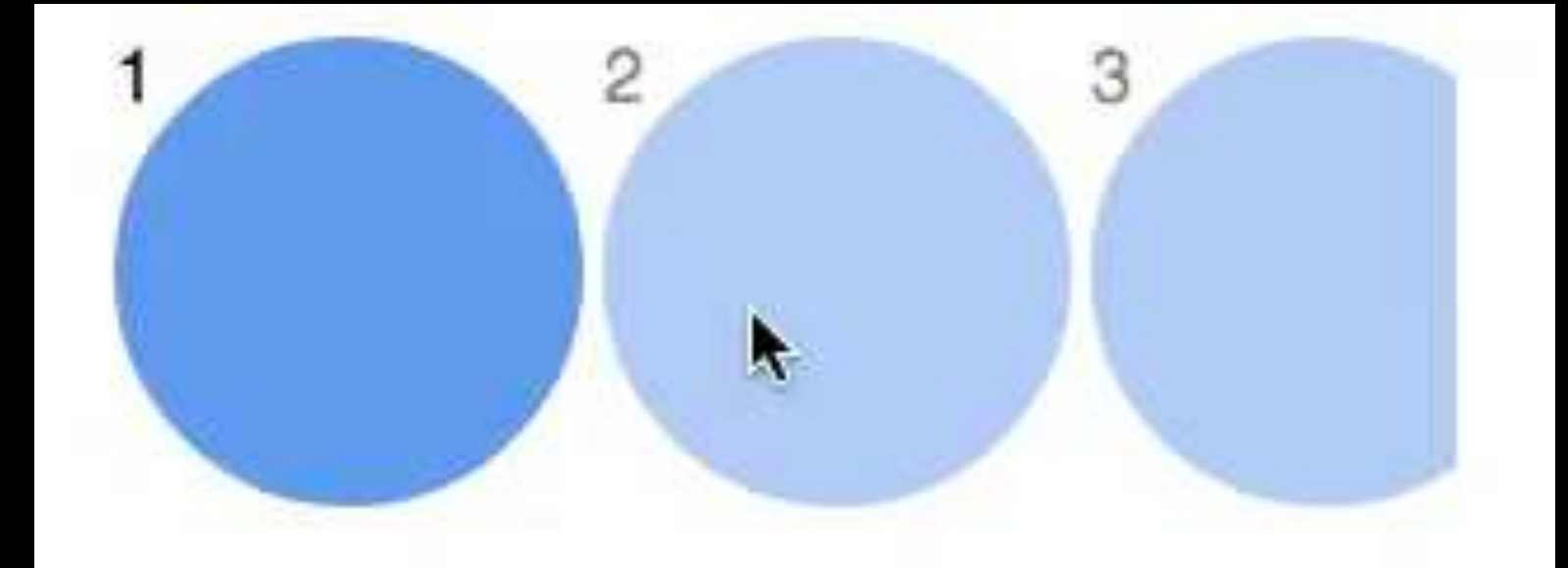


EXTENDING THE IDEA ...



EXTENDING THE IDEA ...

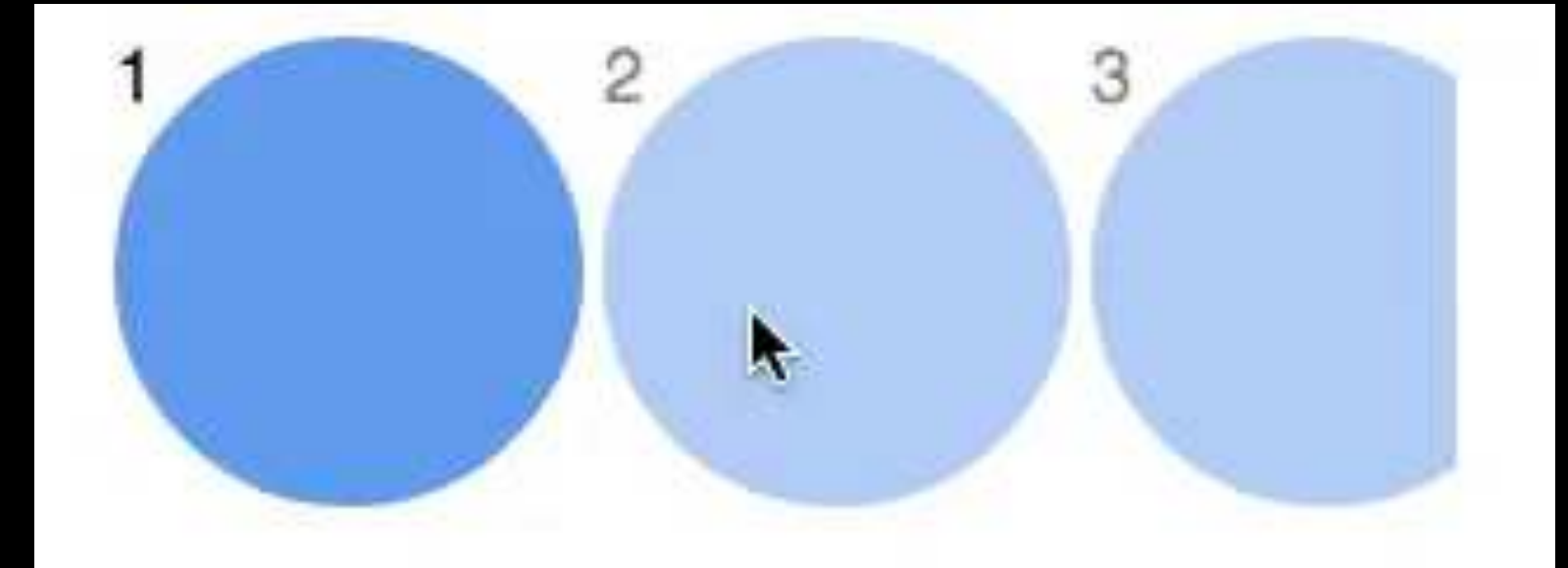
```
fieldset {  
  width: 550px;  
  border: none;  
  transition: margin-left 1s ease;  
}
```



EXTENDING THE IDEA ...

```
$('#input[type="radio"]').on('change', function(){  
    var pos = $(this).next('label').data('offset');  
    $('#fieldset').css('margin-left', -pos + 125);  
});
```

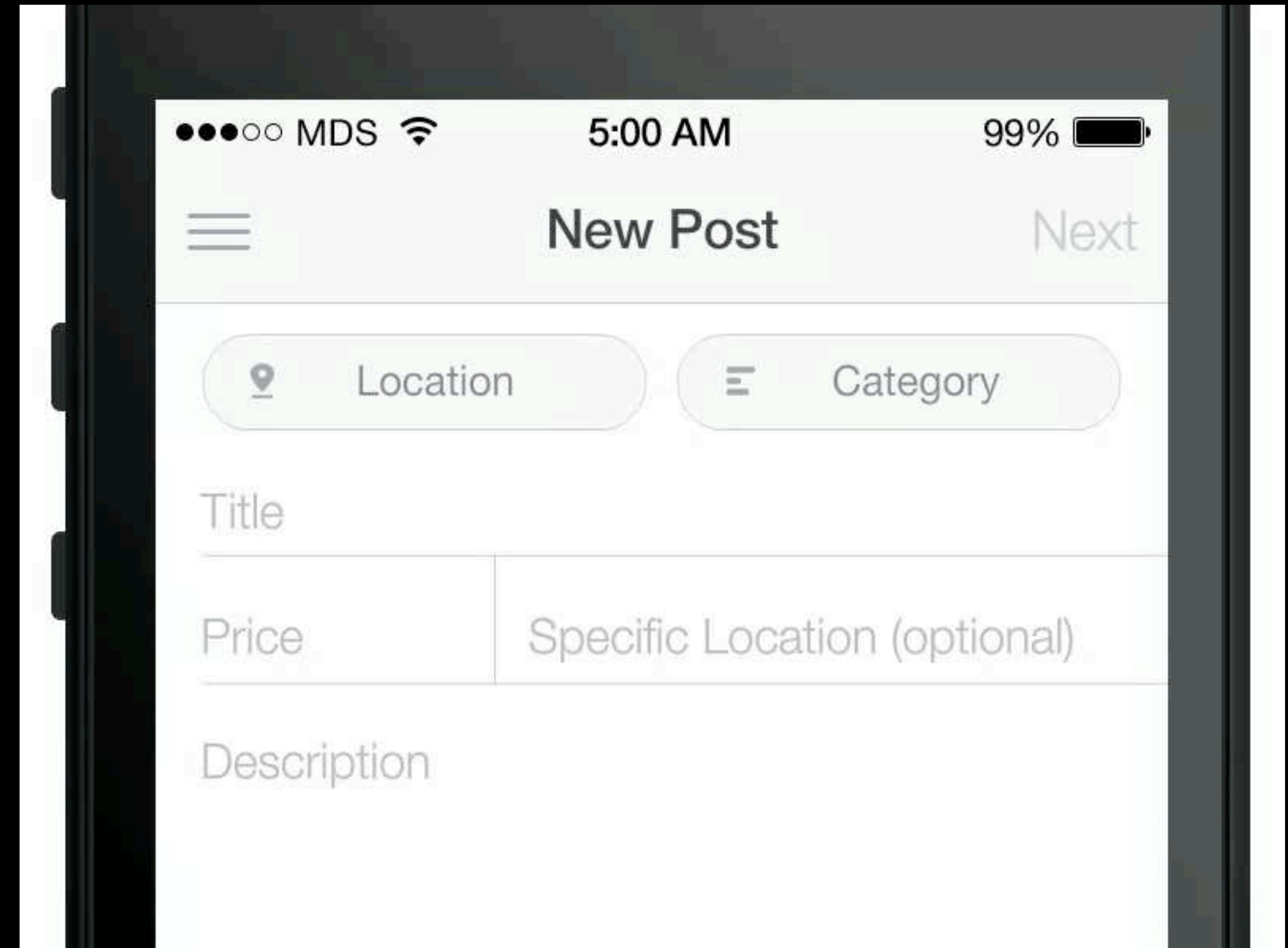
```
$('#input[type="radio"]').each(function(){  
    var lbl = $(this).next('label');  
    lbl.data('offset', lbl.offset().left);  
});
```



FLOAT LABEL PATTERN - CSS ONLY?

`<input type="text" required>`

```
form input:valid {  
  //... do something  
}
```



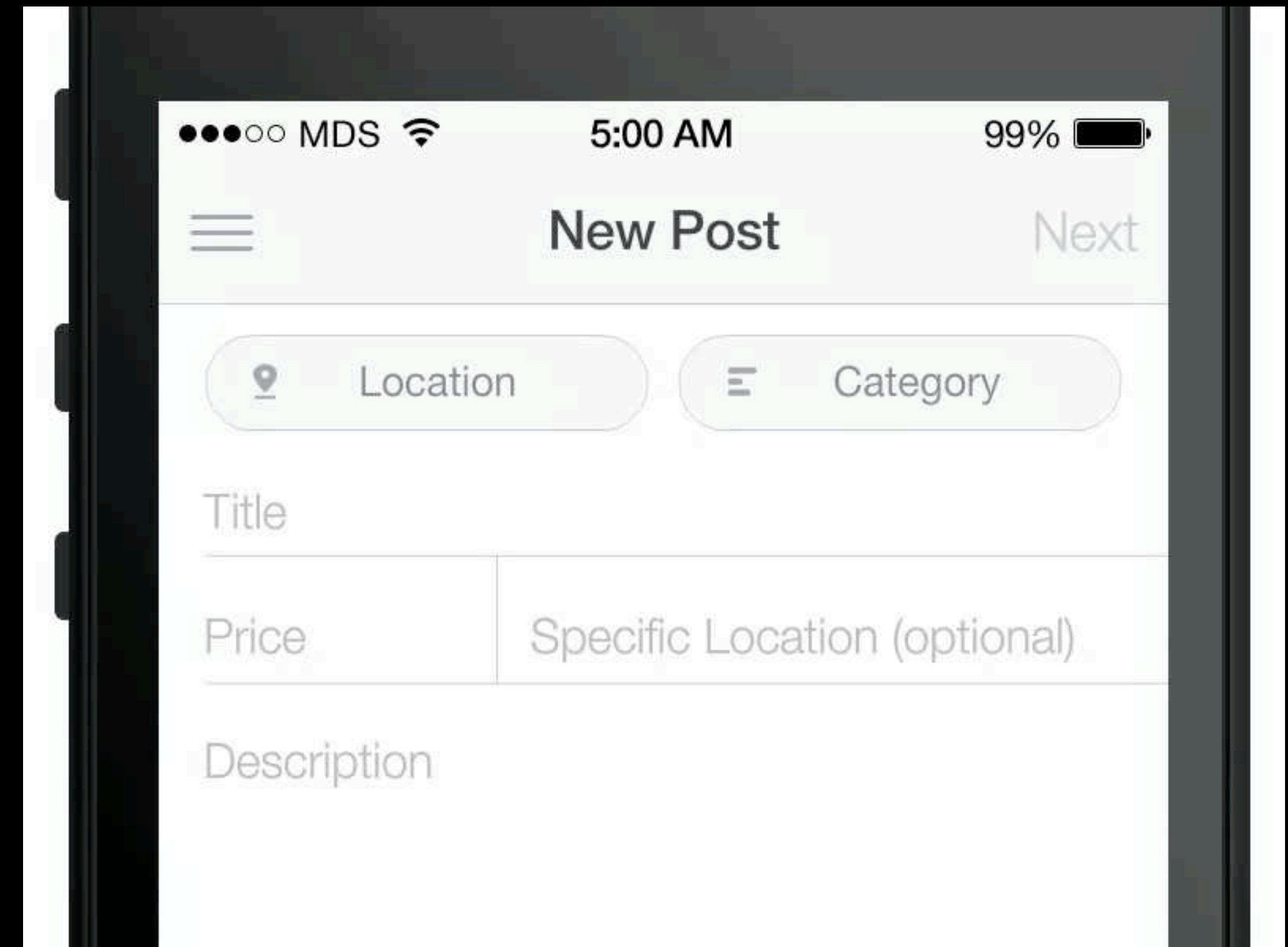
<http://bradfrostweb.com/blog/post/float-label-pattern/>

<http://css-tricks.com/float-labels-css/>

FLOAT LABEL PATTERN - CSS ONLY?

<input type="text" required>

```
form input:valid {  
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}
```



<http://bradfrostweb.com/blog/post/float-label-pattern/>

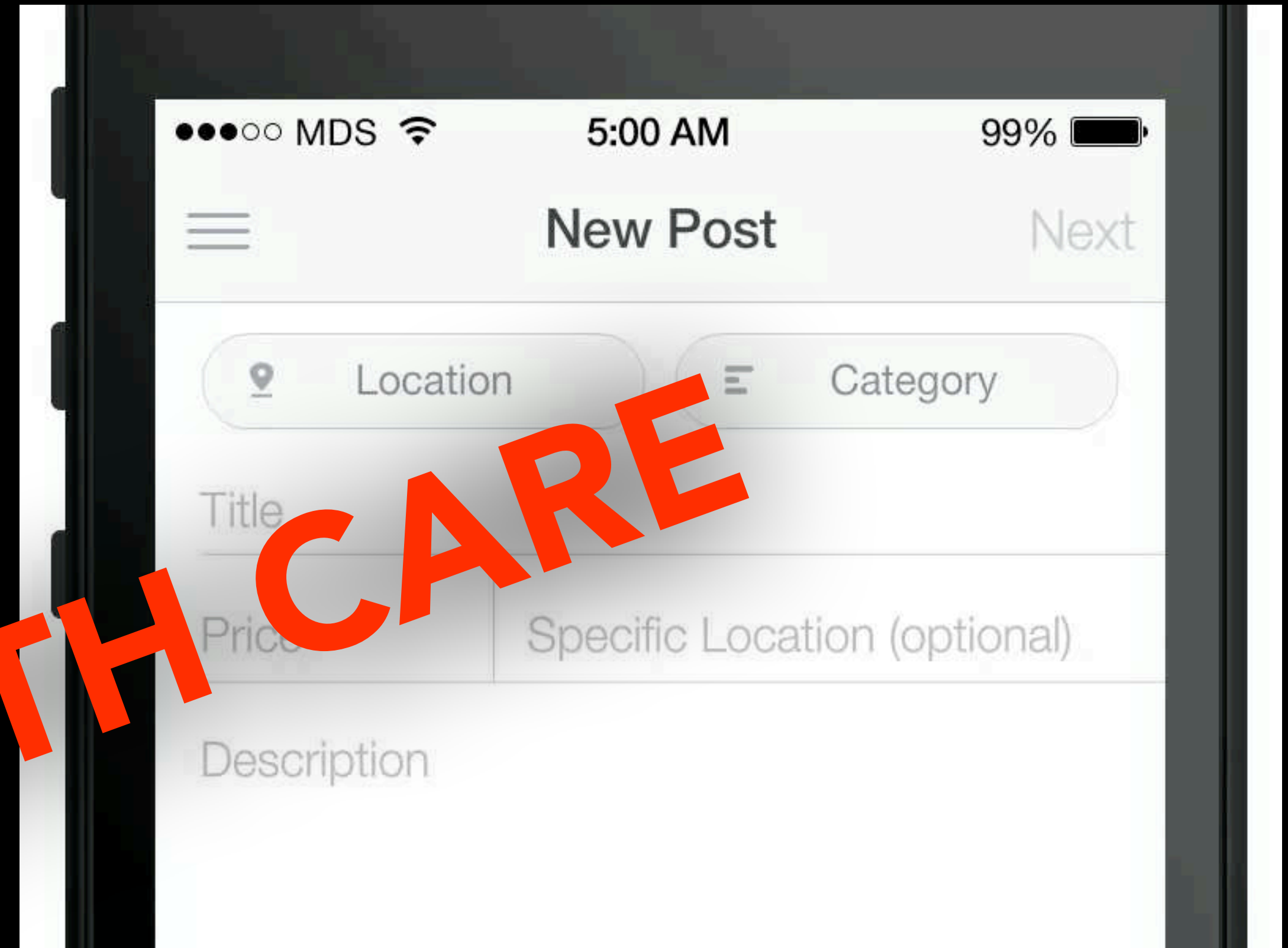
<http://css-tricks.com/float-labels-css/>

FLOAT LABEL PATTERN - CSS ONLY?

<input type="text" required>

```
form input:valid {  
  //... do something  
}
```

HANDLE WITH CARE



<http://bradfrostweb.com/blog/post/float-label-pattern/>

<http://css-tricks.com/float-labels-css/>

USING JAVASCRIPT

- Use JavaScript to handle states which cannot be handled by CSS
- Use JavaScript for styling only if you have to calculate values.
- For animations, use CSS animations/transitions

NO PSEUDOS ON INPUT

- Pseudo Elements need Content

<p>

<before goes here>

Content

<after goes there>

</p>

<http://fettblog.eu/blog/2013/10/21/content-vs-value/>

NO PSEUDOS ON INPUT

- Pseudo Elements need Content

<p>

<before goes here>

Content

<after goes there>

</p>

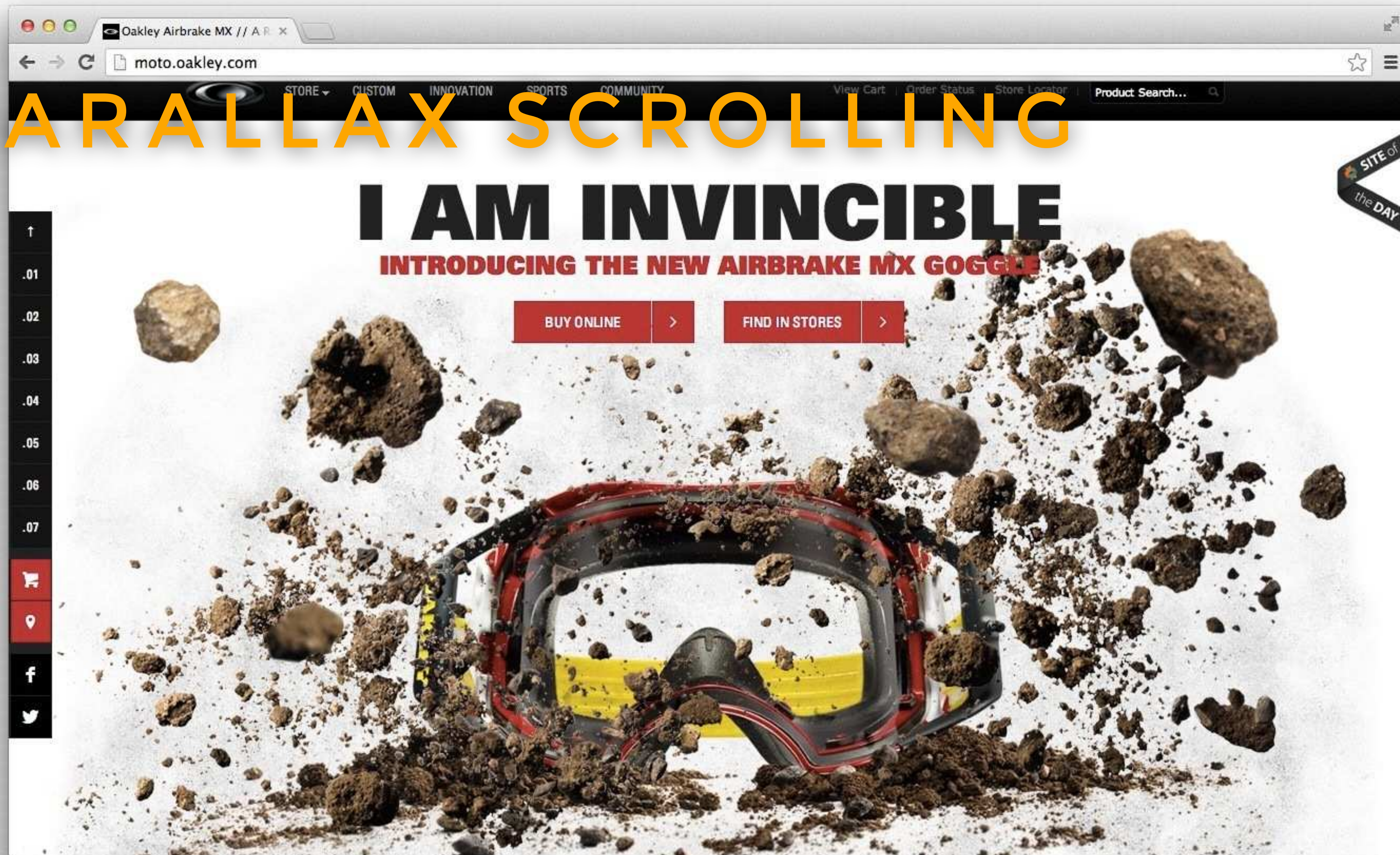
<p>this is content</p>

this is also content

<input>THIS IS NOT POSSIBLE</input>

<http://fettblog.eu/blog/2013/10/21/content-vs-value/>

PARALLAX SCROLLING



← → ↺

www.awwwards.com/css-gallery/

☆ ≡

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agency based in London. We make the most of

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06014308

DAYS HOUR MINS SECS

VOTE NOW!



Ivica Duricova



I believe words
are magic.



Ivica Duricova

6 ❤️

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06014308

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Blend



Blend Creative Agency

1 ❤️

By [Blend](#) from ITALY

06014308

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VOTE NOW!





When using skrollr on mobile you don't actually scroll. When detecting a mobile browser, skrollr disables native scrolling and instead listens for touch events and moves the content using CSS transforms.

REINVENTING THE WHEEL



REINVENTING THE WHEEL

```
$('a').on('click', function() {  
    window.location.href = $(this).attr('href');  
})
```


REINVENTING THE WHEEL

```
$('#a').on('click', function() {  
    window.location.href = $(this).attr('href');  
})
```

```
<a href="#" onclick="visit_url(<?php echo $url; ?>)">
```

```
function visit_url(url) {  
    window.location = url;  
}
```

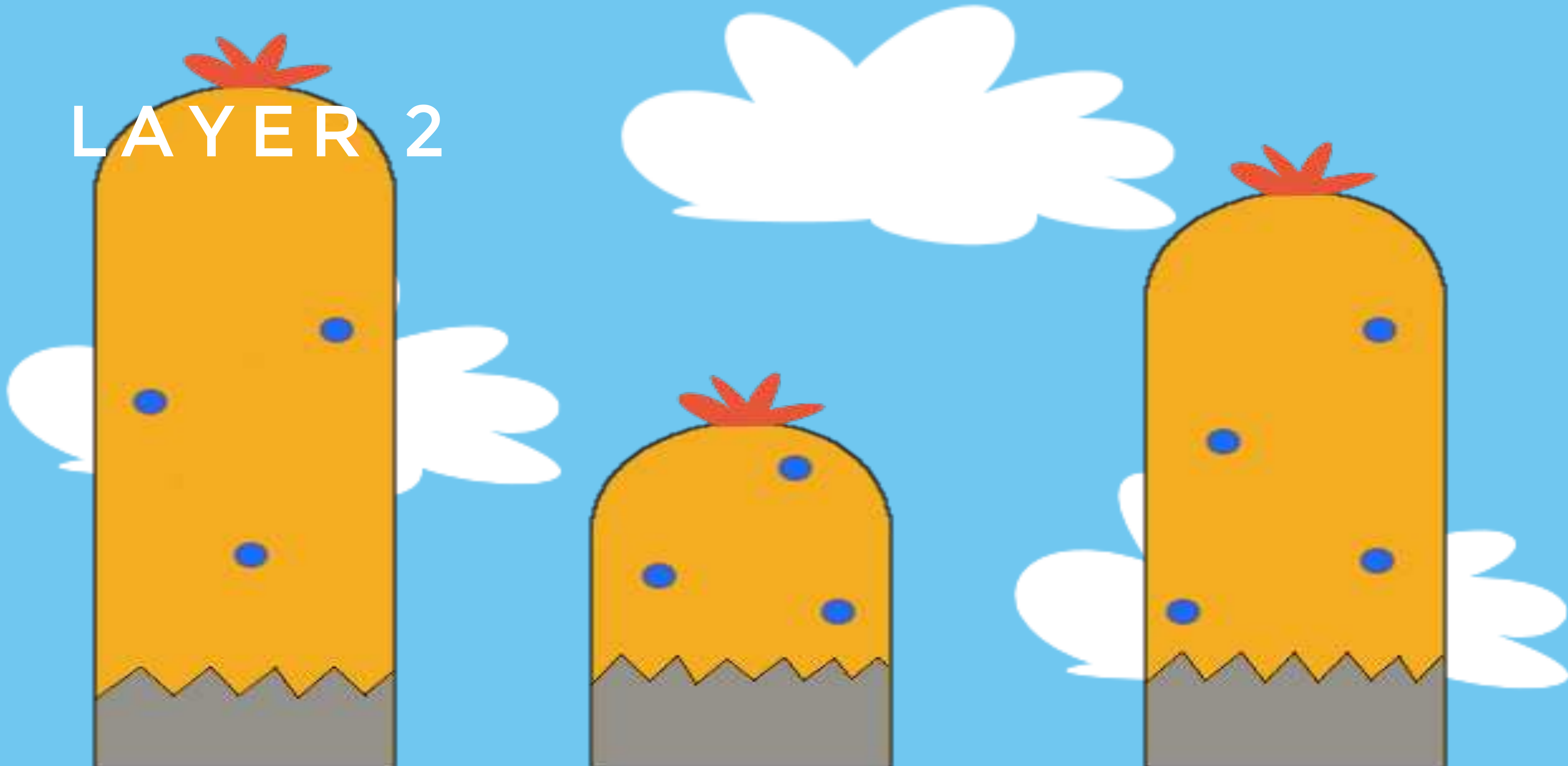
<http://uglyjs.github.io/2011/10/13/links-plus/>

What is **Parallax Scrolling** actually?

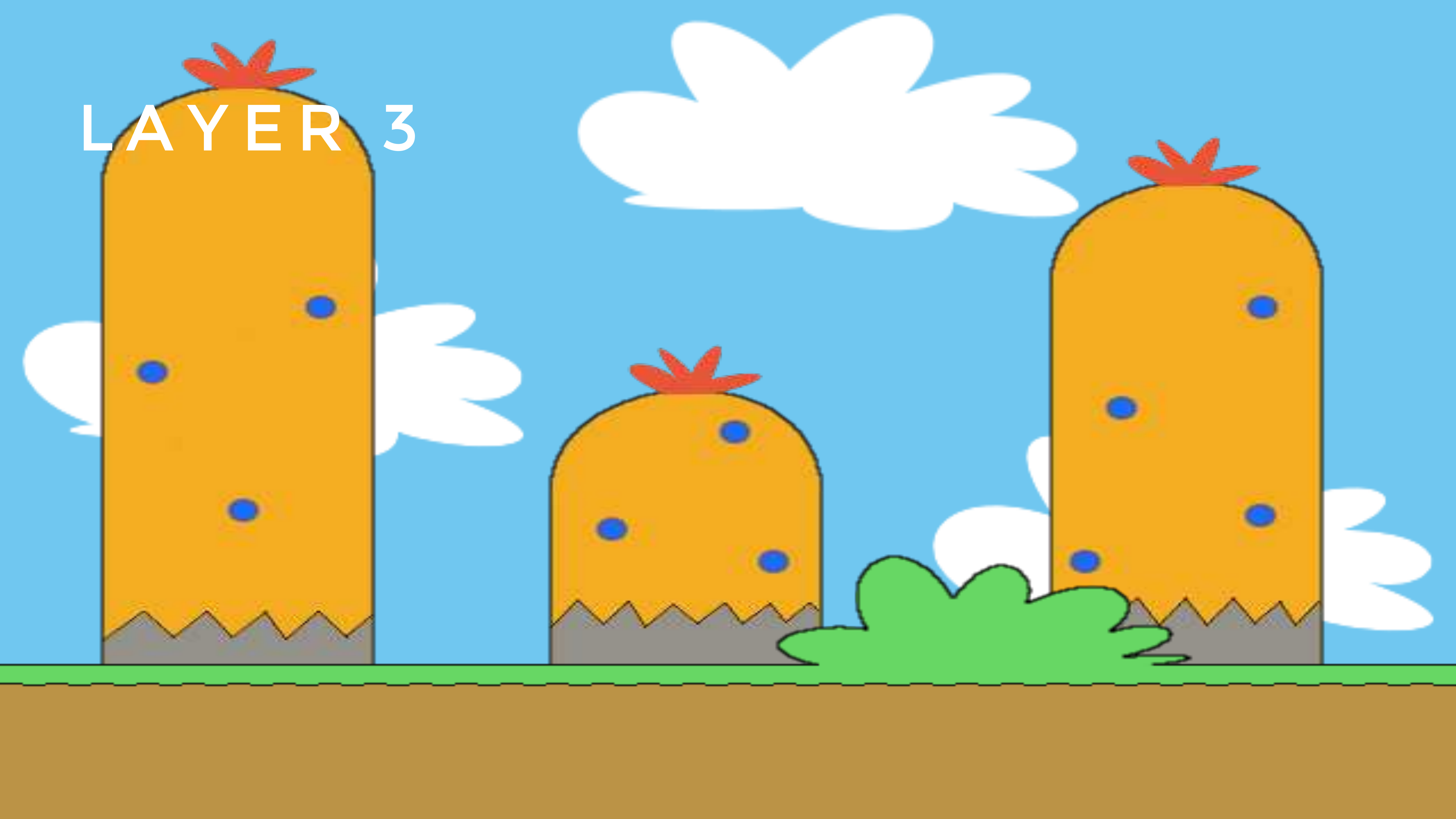
LAYER 1



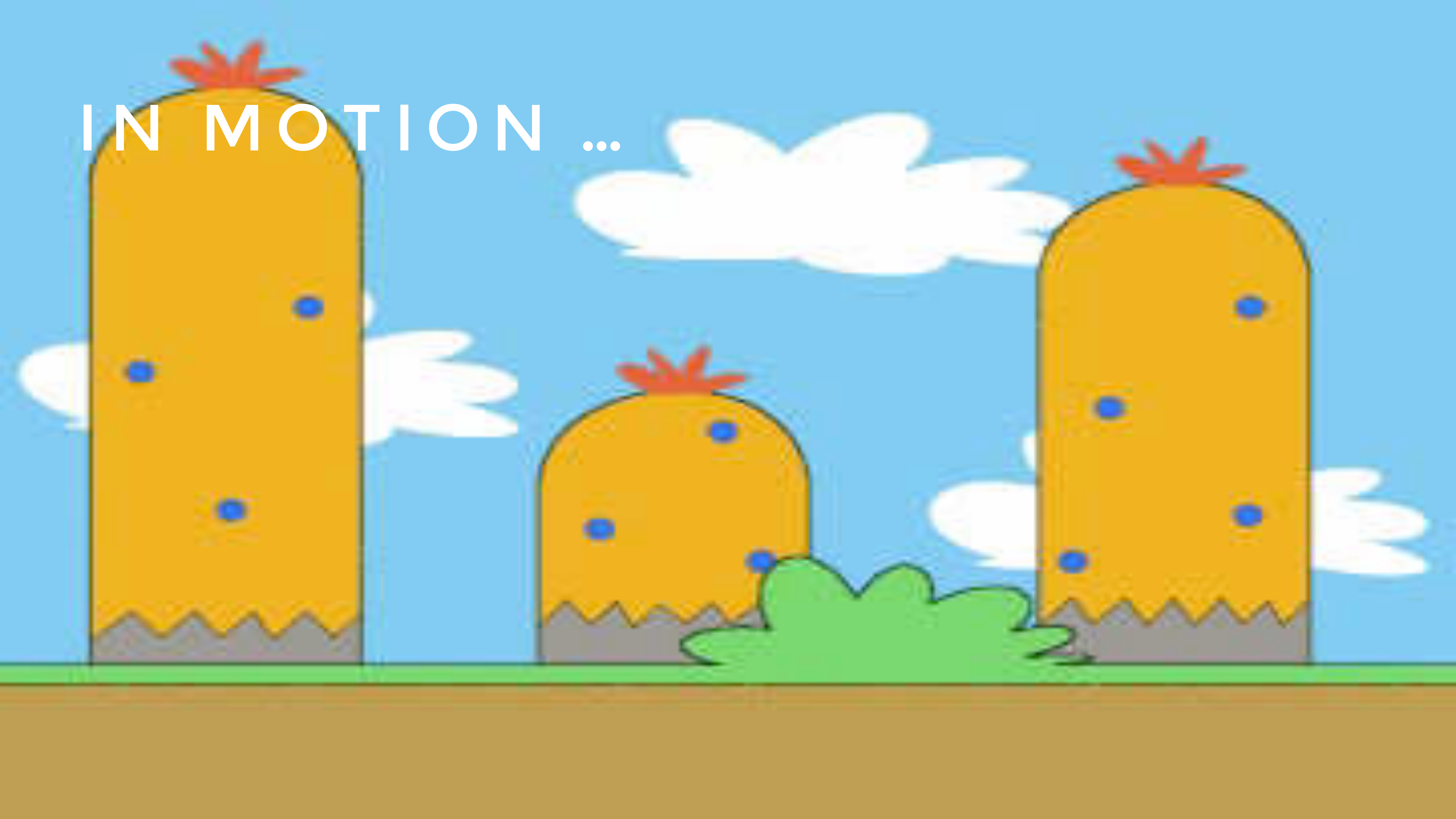
LAYER 2



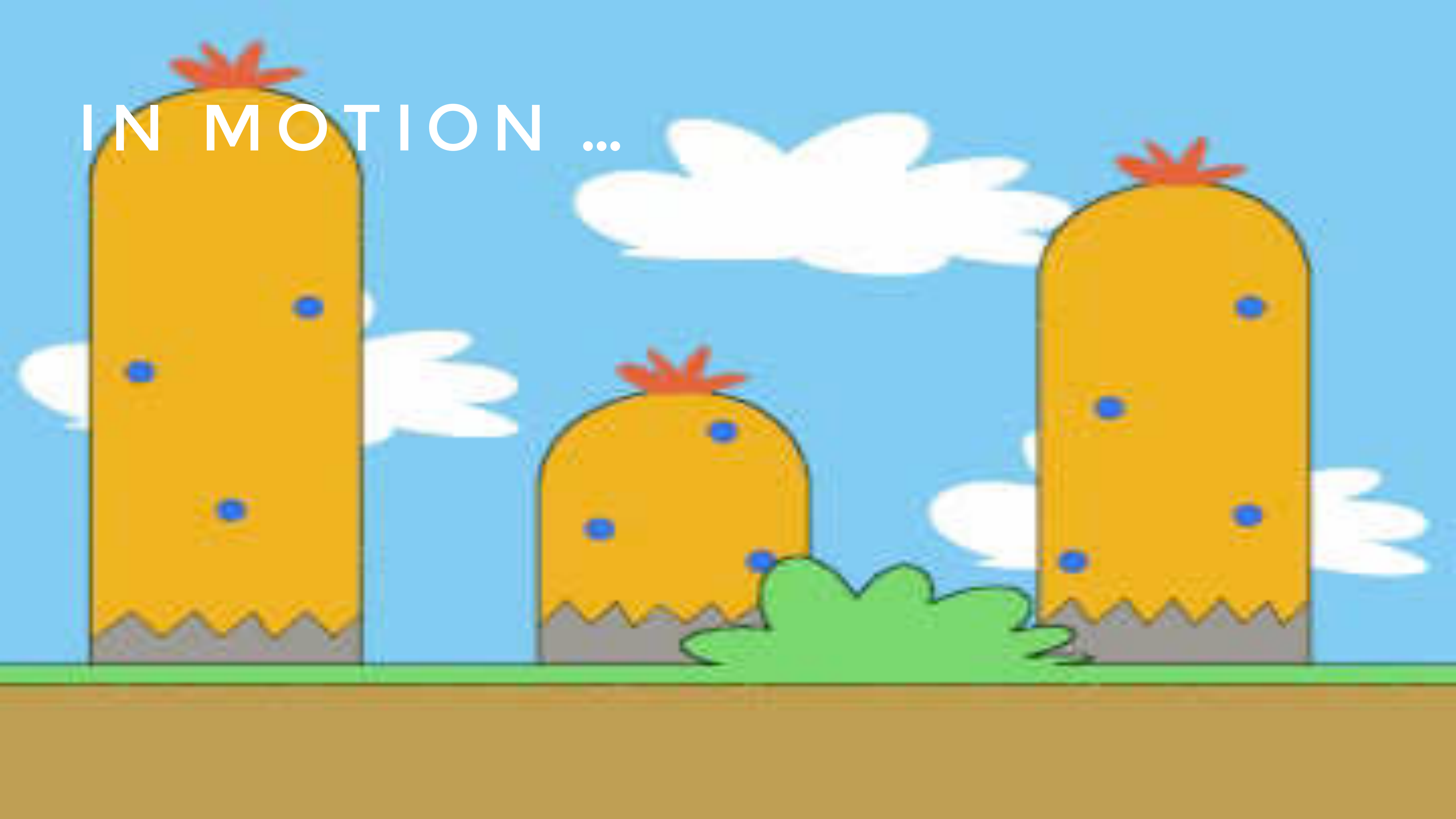
LAYER 3



IN MOTION ...

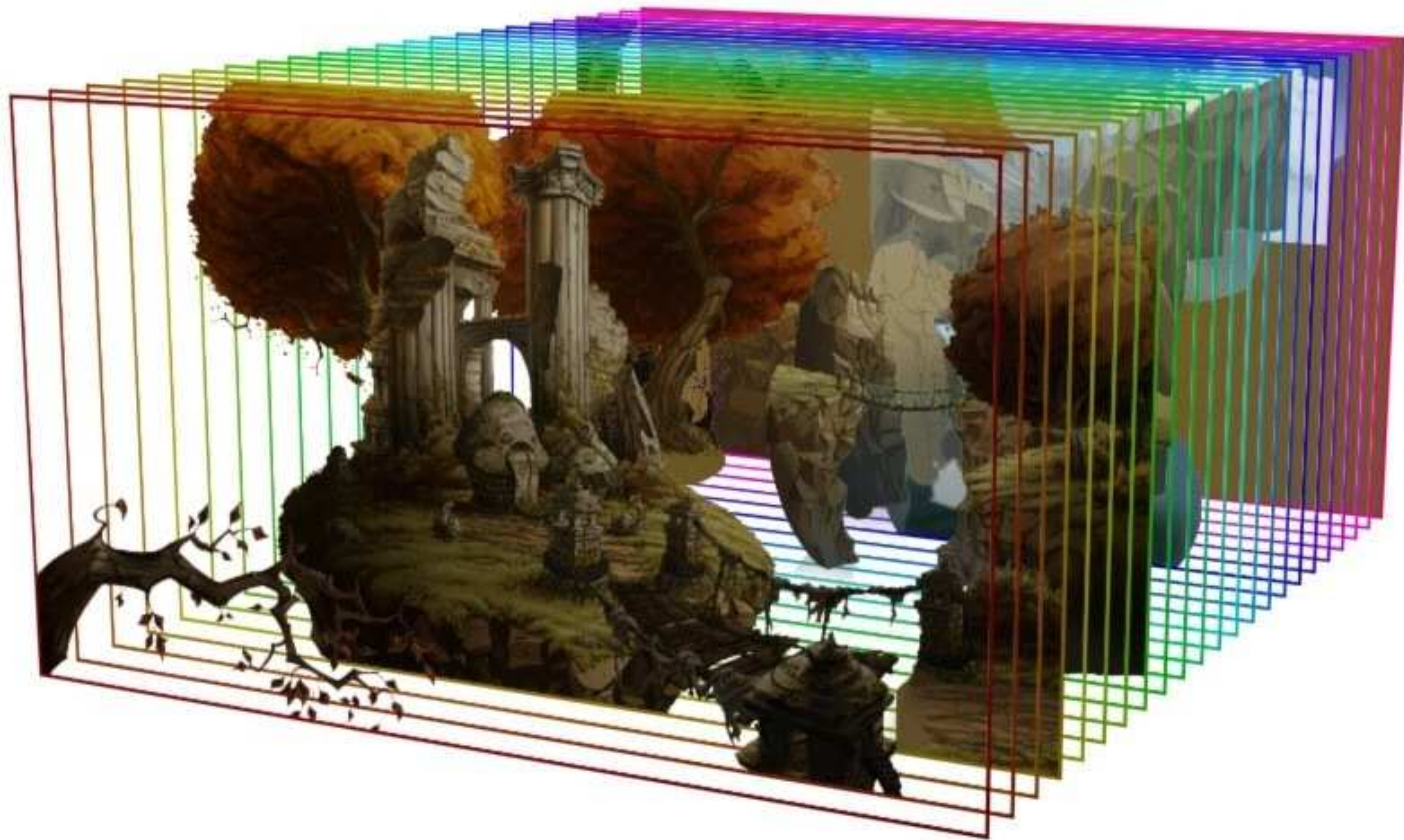


IN MOTION ...



Parallax Scrolling originally was a way to **simulate 3D**

For the Web: **Let's use real 3D** to simulate Parallax Scrolling





A photograph of a small tabby and white kitten walking through a deep layer of snow. The kitten is positioned in the lower-left quadrant of the frame, facing towards the right. Its body is angled slightly away from the camera. The snow is bright white and appears soft. In the background, there are dark, indistinct shapes, possibly parts of a person or a building, and a hint of a red object. The overall lighting is soft and diffused.

What's New Mutzi-Cat?

```
html, body {  
    perspective: 1px;  
    transform-style: preserve-3d;  
}
```

A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown stripes on its back and white fur on its chest and paws. It is looking towards the camera. The background is a soft-focus view of more snow and some dark shapes, possibly plants or a person's legs.

What's New Mutzi-Cat?

```
header:after {  
  content: "";  
  background-image: ...;  
  background-size: cover;  
  background-position: 50% 50%;  
  position: absolute;  
  top: 0; left: 0;  
  bottom: 0; right: 0;  
}
```


What's **New Mutzi-Cat?**



```
header:after {  
  content: '';  
  background-image: ...;  
  background-size: cover;  
  background-position: 50% 50%;  
  position: absolute;  
  top: 0; left: 0;  
  bottom: 0; right: 0;  
  transform: translateZ(-1px);  
}
```

A small tabby and white kitten is walking through a deep layer of snow. The kitten is looking towards the camera. The background is a soft-focus view of a snowy outdoor area with some dark shapes in the distance.

What's New Mutzi-Cat?

```
header:after {  
    content: '';  
    background-image: ...;  
    background-size: cover;  
    background-position: 50% 50%;  
    position: absolute;  
    top: 0; left: 0;  
    bottom: 0; right: 0;  
    transform: translateZ(-1px)  
    scale(2);  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten is looking towards the camera. The background is a snowy outdoor area with some dark shapes in the distance.

What's New Mutzi-Cat?

```
header:after {  
    content: '';  
    background-image: ...;  
    background-size: cover;  
    background-position: 50% 50%;  
    position: absolute;  
    top: 0; left: 0;  
    bottom: 0; right: 0;  
    transform: translateZ(-1px)  
        scale(2);  
    z-index: -1000;  
}
```

A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking towards the camera with large, dark eyes. The background is a soft, out-of-focus white snow. The text "What's New Mutzi-Cat?" is overlaid on the image in a white, serif font with a black outline.

What's New Mutzi-Cat?

```
header:after {  
    content: '';  
    background-image: ...;  
    background-size: cover;  
    background-position: 50% 50%;  
    position: absolute;  
    top: 0; left: 0;  
    bottom: 0; right: 0;  
    transform: translateZ(-1px)  
        scale(2);  
    z-index: -1000;  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking towards the camera with large, dark eyes. The background is a soft, out-of-focus white snow. The text "What's New Mutzi-Cat?" is overlaid on the image in a white, serif font with a black outline.

What's New Mutzi-Cat?

```
header:after {  
    content: '';  
    background-image: ...;  
    background-size: cover;  
    background-position: 50% 50%;  
    position: absolute;  
    top: 0; left: 0;  
    bottom: 0; right: 0;  
    transform: translateZ(-1px)  
        scale(2);  
    z-index: -1000;  
}
```

A small tabby and white kitten is walking through a deep layer of snow. The kitten is positioned in the lower-left to center of the frame, facing right. Its body is mostly obscured by the snow, with its head and front paws visible. The snow is bright white and appears soft. In the background, there are dark, indistinct shapes that could be trees or buildings, and a portion of a red object is visible in the upper right corner.

What's New Mutzi-Cat?

```
h1 {  
  position: absolute;  
  top: 50%; width: 100%;  
  text-align: center; color: white;  
  text-shadow: 2px 2px 2px #000;  
  font-size: 3rem;  
  transform: translateZ(-0.5px)  
    scale(1.5)  
    translateY(-50%);  
  z-index: -500;  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown stripes on its back and white fur on its chest and paws. It is looking down at the snow. The background is a soft, out-of-focus white snow.

What's New Mutzi-Cat?

```
h1 {  
  position: absolute;  
  top: 50%; width: 100%;  
  text-align: center; color: white;  
  text-shadow: 2px 2px 2px #000;  
  font-size: 3rem;  
  transform: translateZ(-0.5px)  
    scale(1.5)  
    translateY(-50%);  
  z-index: -500;  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten is positioned in the lower-left to center of the frame, facing right. Its body is mostly obscured by the snow, with its head and front paws visible. The snow is bright white and appears soft. In the background, there are dark, out-of-focus shapes that could be other animals or people. The overall scene is bright and wintry.

What's New Mutzi-Cat?

```
h1 {  
  position: absolute;  
  top: 50%; width: 100%;  
  text-align: center; color: white;  
  text-shadow: 2px 2px 2px #000;  
  font-size: 3rem;  
  transform: translateZ(-0.5px)  
    scale(1.5)  
    translateY(-50%);  
  z-index: -500;  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking down at the snow. The background is a soft-focus view of more snow and some dark shapes, possibly trees or buildings.

What's New Mutzi-Cat?

```
header:after {  
  content: '';  
  height: 100vh; width: 100%;  
  position: absolute;  
  top: 70vh;  
}
```

A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking down at the snow. The background is a soft-focus view of more snow and some dark shapes, possibly trees or buildings, in the distance.

What's New Mutzi-Cat?

```
header:after {  
  content: "";  
  height: 100vh; width: 100%;  
  position: absolute;  
  top: 70vh;  
  background-image:  
    linear-gradient(to bottom,  
      transparent 0,  
      black 70%);  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten is looking towards the camera. The background is a soft-focus view of a snowy outdoor area with some dark shapes in the distance.

What's New Mutzi-Cat?

```
header:after {  
  content: "";  
  height: 100vh; width: 100%;  
  position: absolute;  
  top: 70vh;  
  background-image:  
    linear-gradient(to bottom,  
      transparent 0,  
      black 70%);  
  transform: translateZ(0.4px)  
    scale(0.9);  
  z-index: 400;  
}
```

A photograph of a small tabby and white kitten walking through a deep layer of snow. The kitten is positioned in the lower half of the frame, moving towards the right. The snow is bright white and covers the entire ground. In the background, there are dark, out-of-focus shapes that appear to be parts of people or objects. Overlaid on the image is the text 'What's New Mutzi-Cat?' in a white, serif font with a slight shadow effect.

What's New Mutzi-Cat?

```
header:after {  
  content: "";  
  height: 100vh; width: 100%;  
  position: absolute;  
  top: 70vh;  
  background-image:  
    linear-gradient(to bottom,  
      transparent 0,  
      black 70%);  
  transform: translateZ(0.4px)  
    scale(0.9);  
  z-index: 400;  
}
```


A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking down at the snow. The background is a soft, out-of-focus white snow.

What's New Mutzi-Cat?

```
header:after {  
  content: "";  
  height: 100vh; width: 100%;  
  position: absolute;  
  top: 70vh;  
  background-image:  
    linear-gradient(to bottom,  
      transparent 0,  
      black 70%);  
  transform: translateZ(0.4px)  
    scale(0.9);  
  z-index: 400;  
}
```

FULL DEMO:

<http://codepen.io/ddprrt/full/BbCes>

A small tabby and white kitten is walking through a deep layer of snow. The kitten has dark brown and black stripes on its back and legs, with white fur on its chest and paws. It is looking down at the snow. The background is a soft-focus view of more snow and a person's leg in dark pants.

What's New Mutzi-Cat?

SCOTT KELLUM'S SASS/COMPASS PARALLAX MIXIN

```
@mixin parallax(  
  $distance : 0,  
  $perspective : 1  
) {  
  @include transform(  
    translateZ($distance * $perspective * 1px)  
    scale(abs($distance - 1))  
  );  
  z-index: $distance * 1000;  
}
```

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<http://codepen.io/scottkellum/pen/bHEcA>

THE PROS

- Works on Smartphone Browsers
- No scroll hi-jacking - everything is native
- Natural barrier against humbug parallax
- No 3D available? Won't break!

THE PROS

- Works on Smartphone Browsers
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THE CONS

- Does not work in any IE version (up to 11) and is not feature-testable (**transform-style** does exist, but just with '**flat**')
flat
- Smartphone browser scrolling is clumsy (tough not as clumsy as with JS parallax)



Modernizr

3.0

New **noPrefixes** build option,
which forces feature detects to
only return true if the feature is
supported without a vendor prefix

<http://fettblog.eu/blog/2014/02/20/no-prefixes/>

<https://github.com/Modernizr/Modernizr/issues/1082>

<https://github.com/Modernizr/Modernizr/issues/805>

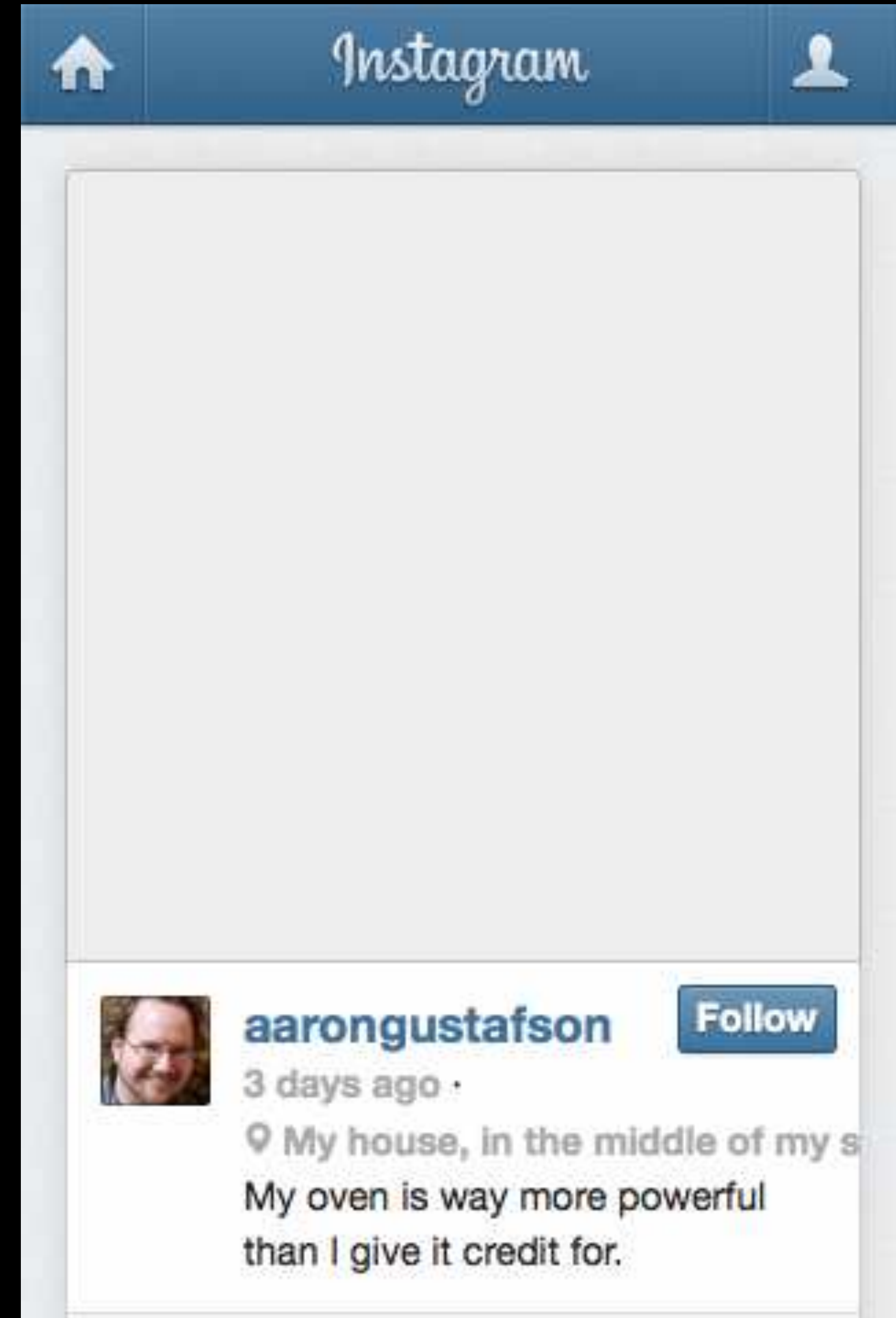
JS FREE



INSTAGRAM

IOS 5

SINCE JULY 2013



Dashboard | Lanyrd

lanyrd.com/dashboard/

Lanyrd Add an event

Stefan Baumgartner Sign out?

Dashboard Conferences Speakers Coverage

Hello Stefan Baumgartner
Next event you're attending...

Digital Visions 2013
Fri 4th October 2013
Austria, Vienna

You're speaking
AT THIS EVENT



We think you might find these events interesting

lx.js 2013 (Lisbon Javascript)
Portugal, Lisbon
2nd-3rd October 2013

Dashboard | Lanyrd

lanyrd.com/dashboard/

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We think you might find these events interesting

Brooklyn Beta 2013
United States, New York
9th-11th October 2013

PROGRESSIVE ENHANCEMENT

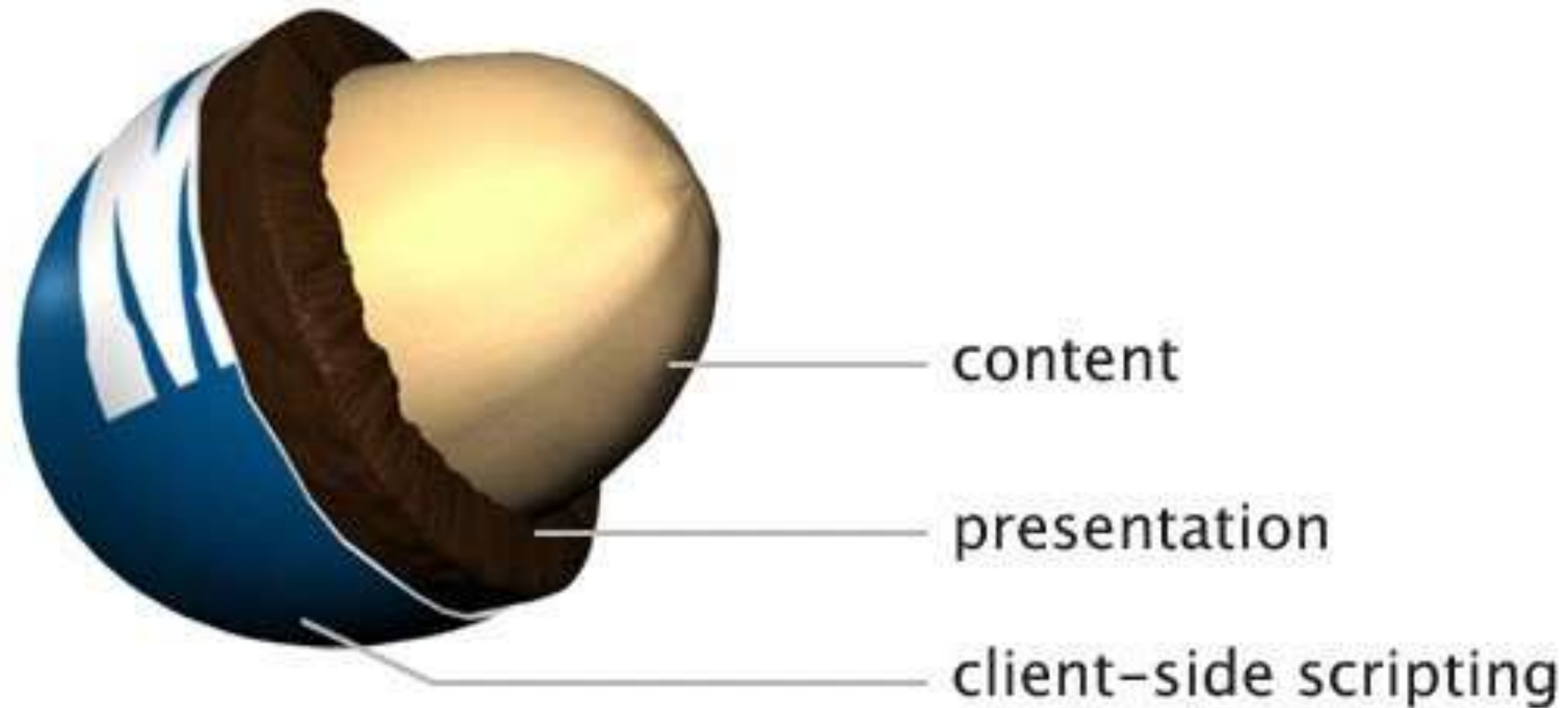


Illustration by Dave Stewart

FINAL TIPS

CHOOSE WISELY

- Each element has a purpose
- **button**, **label**, **input**, **a**
are meant to be interacted with
- **a** is meant to have an URL



STYLE

- Use standard CSS features
- Use prefixes only if you know what's the deal
- proprietary features might disappear in the future - use carefully



JAVASCRIPT TO HANDLE STATES



JAVASCRIPT TO HANDLE STATES





workingdraft.de

what doesn't kill me
just makes me smaller



thx!

fettblog.eu - @ddprrt - workingdraft.de

