

Attention!

Full fledged version of the slides available at
fettblog.eu/slides/BYND13
Detailed information on fettblog.eu

Mobile Browser Games

Great Expectations

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Netural



This Site
has been
optimized
for

Internet Explorer 3



We've come a long way



A new mindset



Vegas in your browser!



Just mobile browsers?



Just modern browsers!



the numbers on the roulette wheel add up to 666
... and now I know why



27 32 8 17 13 2 0 0 35

0/2/3			5/8			ORPH			ZERO			
3	6	9	12	15	18	21	24	27	30	33	36	2 to 1
2	5	8	11	14	17	20	23	26	29	32	35	2 to 1
1	4	7	10	13	16	19	22	25	28	31	34	2 to 1
1st 12			2nd 12			3rd 12						
1 to 18	EVEN		RED	BLACK		ODD	19 to 36					

Herzlichen Glückwunsch,
Sie haben 45,60 € gewonnen!





Mobile Safari
iOS 5 / iOS 6

Native Android
Browser 2.x, 3.x,
4.0

Mostly Samsung
Galaxy Devices

Internet Explorer
9

Windows Phone 7

Animation: The Possibilities

DOM Manipulation

CSS Transitions / Animations

Canvas

M



by firt | [Updates on Twitter](#) | [Blog](#)

Work With Canvas

	Safari on iOS	Android Browser	Google Chrome	Amazon Silk	BlackBerry Browser			Nokia Browser		Internet Explorer		Opera Mobile	Opera mini	Firefox	webOS Browser	
Platform	iPhone, iPad	Phones & Tablet	Android 4.0+	Kindle Fire	Phones	BB10	Tablet	MeeGo - N9	Symbian	Windows Phone 7.5	Windows 8	Android & Symbian	Jawa OS Android	Android, MeeGo	HP Phones	HP TouchPad
Web Storage (localStorage)	✓		✓	✓	✓	✓	✓	✓			✓	✓		✓		
Canvas API W3C API 2D Drawing API	✓	✓	✓	✓	✓	✓	✓	✓	✓ Anna*	✓	✓	✓	✓	✓	✓	✓
Web Workers	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
WebRTC	✓	✓	✓	✓		✓	✓	✓				✓		✓		✓
HTML5 Geolocation	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓
HTML5 LocalStorage	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓
HTML5 WebSockets	✓		✓		✓	✓	✓				✓			✓		

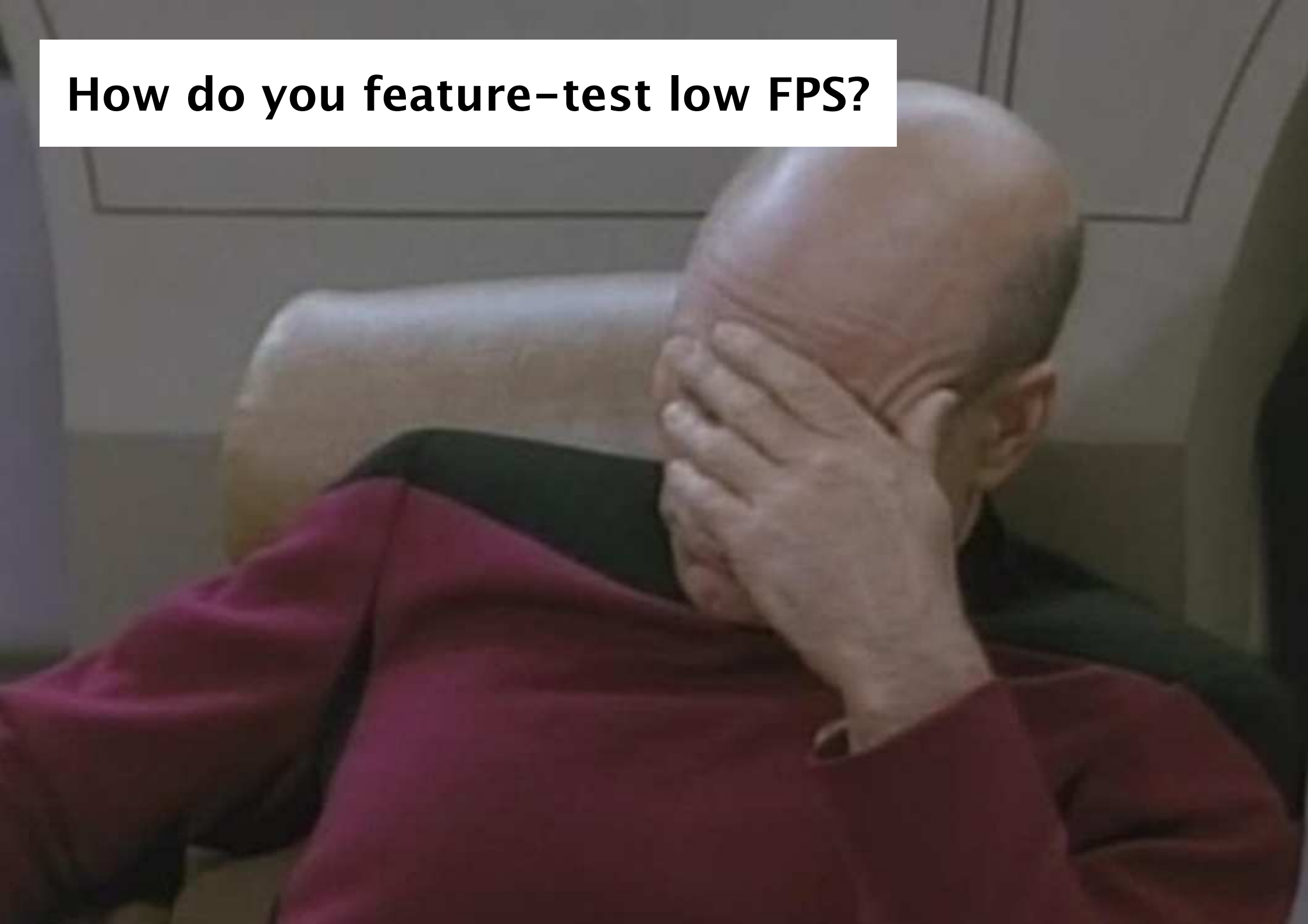
<http://thewebrocks.com/demos/pigs/> by Chris Heilman

Pigs of Awesome – iOS

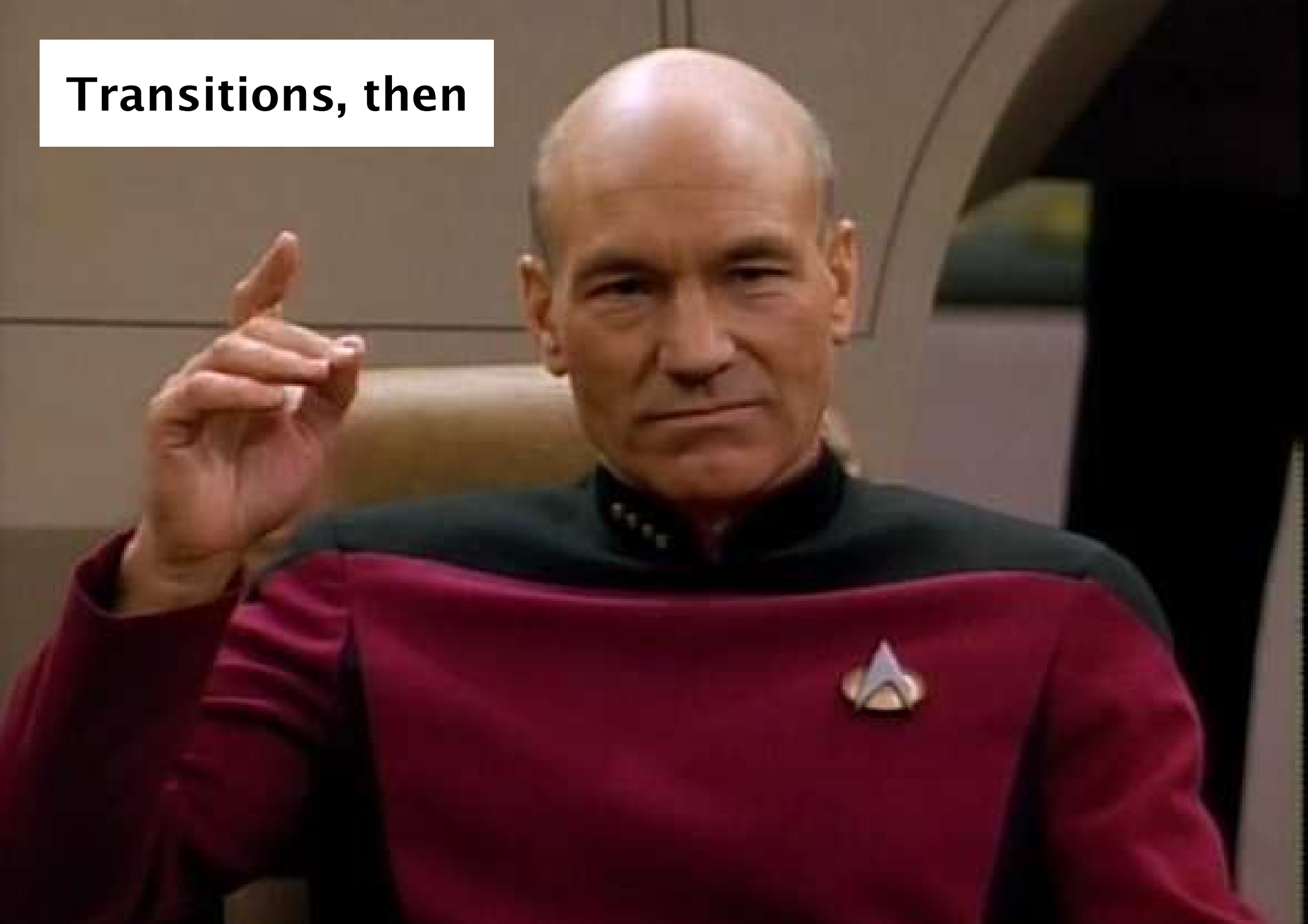
Pigs of Awesome – WinPhone 7

Pigs of Awesome – Android

How do you feature-test low FPS?



Transitions, then



iOS



What happened on Android?

```
animate(var from,  
        var to) {  
    // MAGIC  
    ...  
}
```

```
transition() {  
    animate(0%, 100%);  
    state(100%);  
}
```


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Feature	Safari on iOS	Android Browser	Google Chrome	Amazon Silk	BlackBerry Browser			Nokia Browser		Internet Explorer		Opera Mobile	Opera mini	Firefox	webOS Browser	
Platform	iPhone, iPad	Phones & Tablet	Android 4.0+	Kindle Fire	Phones	BB10	Tablet	MeeGo - N9	Symbian	Windows Phone 7.5	Windows 8	Android & Symbian	Java/JOS Android	Android, MeeGo	HP Phones	HP TouchPad
HTML5 Video	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTML5 Audio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Geolocation	✓	✓	✓			✓	✓	✓			✓			✓		
CSS 3 Transitions W3C Standard Animations between two states	✓	✓ 2.0+	✓	✓	✓	✓	✓	✓	✓ Anna+		✓	✓		✓	✓	✓
CSS 3 Animations W3C Standard Animations with keyframes	✓	✓ 2.0+	✓		✓	✓	✓	✓	✓ Anna+		✓	✓ 12.1+		✓	✓	✓
Responsive Web Design	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Touchscreen Web Support	✓	✓	✓		✓	✓	✓	✓			✓			✓		✓

[illegible]

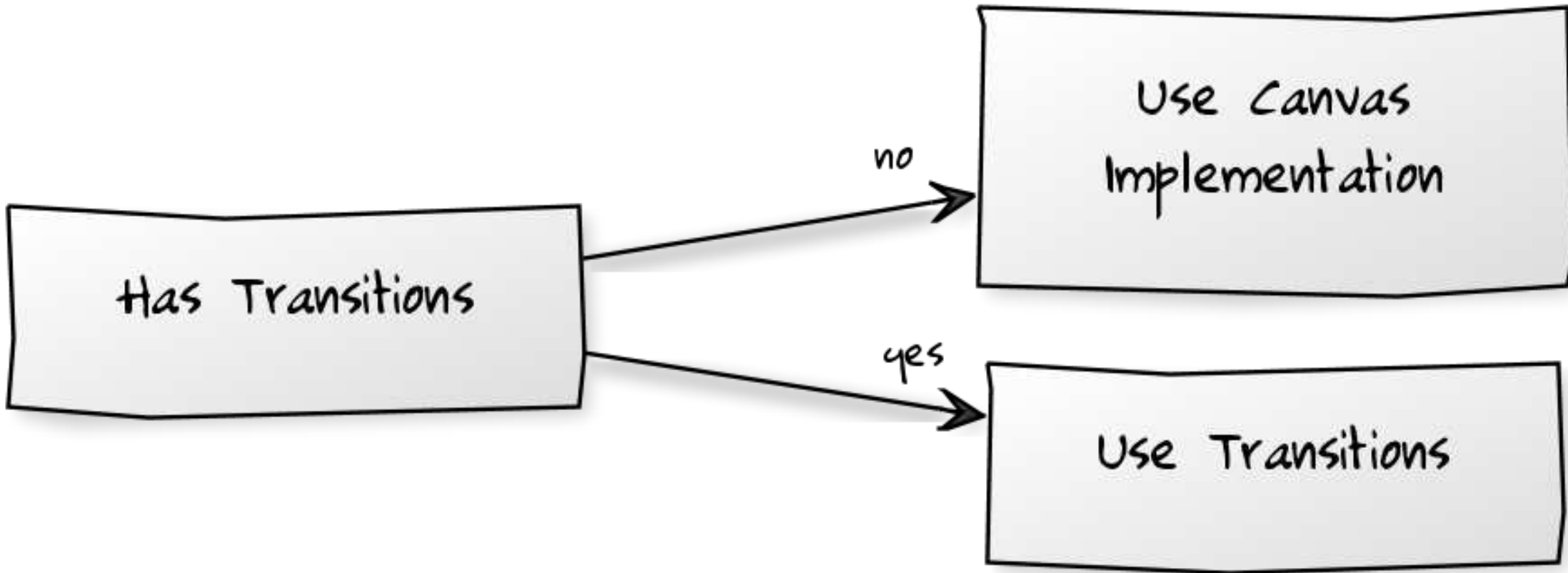
Has Transitions

no

Use Canvas
Implementation

yes

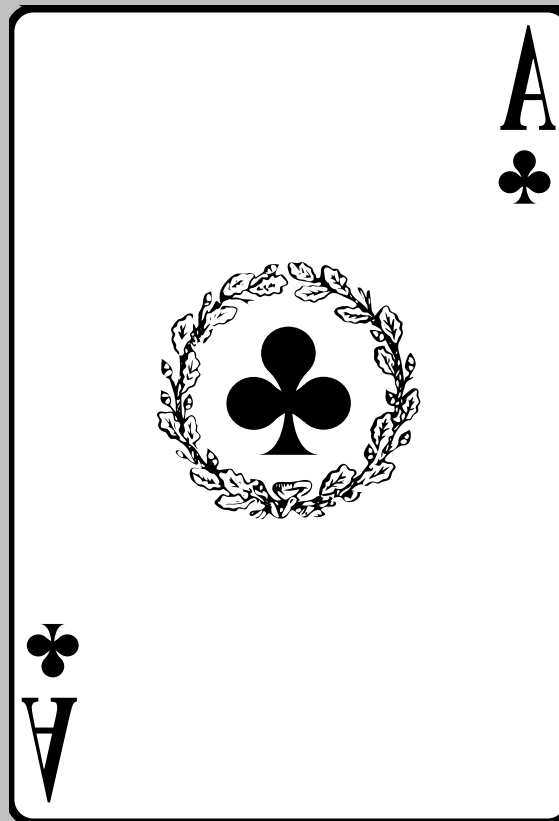
Use Transitions



CSS Flip

```
.card {  
  width: 100px; height: 120px;  
  transform-style: preserve-3d;  
  perspective: 1000;  
}  
  
.card > div {  
  backface-visibility: hidden;  
  transition: transform 0.5s linear;  
}  
  
.back { transform: rotateY(0deg); }  
  
.front { transform: rotateY(180deg); }  
  
.flip .back { transform: rotateY(-180deg); }  
.flip .front { transform: rotate(0deg); }
```

ios



Well then, User Agents again...



Let there be sound!



The Meaning of Life

Is a picture of Picard playing 'Stairway to Heaven'

www.thxforthe.info

2.8k 5,674 2.8k
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Feature	Browser Support															
	on iOS	Browser	Chrome	on Silk	BlackBerry Browser			Nokia Browser		Internet Explorer		Opera Mobile	Opera mini	Firefox	webOS Browser	
Platform	Phone, iPad	Phones & Tablets	Android 4.0+	Kindle Fire	Phones		Tablet	MeeGo - N9	Symbian	Windows Phone 7.5	Windows 8	Android & Symbian	Java, iOS, Android	Android, MeeGo	HP Phones	HP TouchPad
Versions tested	3.2 to 6.1	1.5 to 4.2	18 to 25b	1.0 to 2.0	5.0 to 7.1	BB10	1.0 to 2.1	1.2	N9 to Symbian FP2	9	10 (metro)	11 to 12.1	5 to 7	4 to 18	1.4 to 2.0	2.0
HTML5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CSS3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Web Storage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Web SQL Storage	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓
Geolocation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Multimedia W3C API Video & Audio Players	✓	✓ 2.8+	✓	✓	✓ 7.0+	✓	✓	✓	✓ Belo+	✓	✓	✓		✓	✓	✓
Web Workers	✓		✓	✓	✓	✓	✓	✓				✓		✓		
Web Sockets	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
Feature	Safari on iOS	Android Browser	Google Chrome	Amazon Silk	BlackBerry Browser			Nokia Browser		Internet Explorer		Opera Mobile	Opera mini	Firefox	webOS Browser	
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Web Storage	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		

Basic API

```
.play()
```

```
.pause()
```

```
.currentTime
```

Basic API

`.duration`

`'timeupdate'`

`'ended'`

Demo

```
audioOne = document.getElementById('audioOne');  
audioTwo = document.getElementById('audioTwo');
```

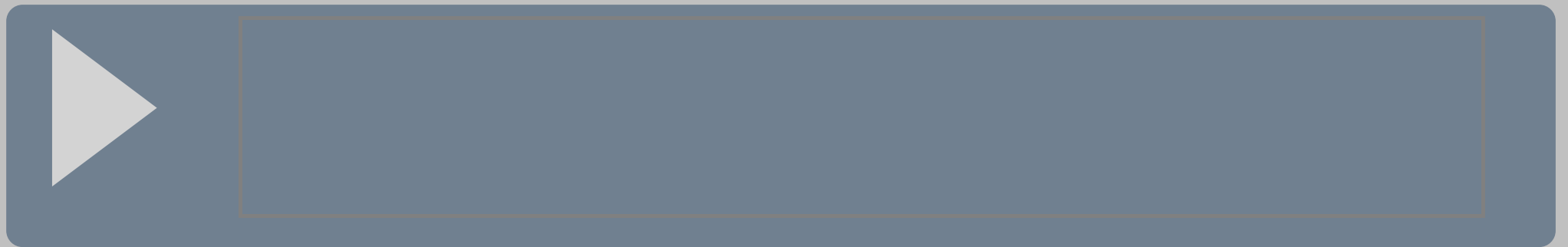
```
audioOne.addEventListener('ended', function() {  
    audioTwo.play();  
});
```

```
//click on Audio One
```

Desktop



Mobile Webkit





Just on Touch!



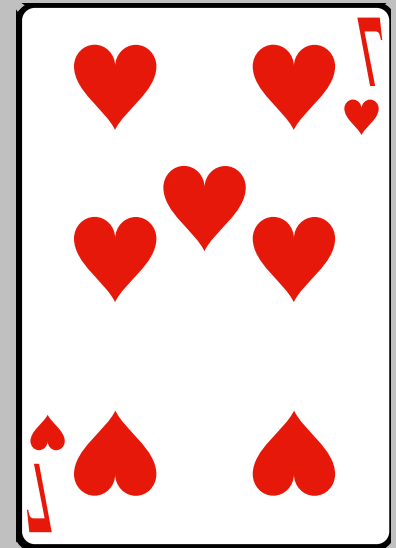
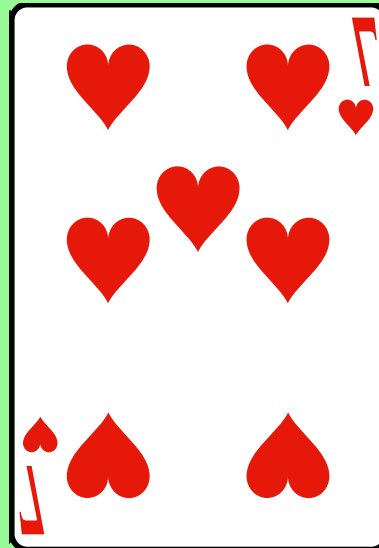
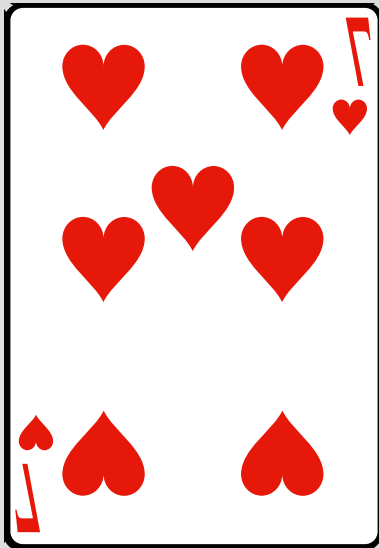


There can be only one!

```
var map = [  
  {start: 0, end: 2},  
  {start: 3, end: 4}  
];
```

```
function play(entry) {  
  audio.currentTime = map[entry].start;  
  audio.play();  
  audio.addEventListener('timeupdate', function() {  
    if(audio.currentTime > map[entry].end) {  
      audio.pause();  
    }  
  });  
}
```

Desktop, Android, iOS



iOS doesn't like Variable Bitrates

media.io

Online Audio Converter

Select your file and upload it. media.io will convert it immediately.

Upload

Datei auswählen

Keine ausgewählt

Select Format

☐ MP3 (.mp3 files)

☐ WAV (.wav files)

☐ OGG (.ogg files)

☐ WMA (.wma files)

Select Quality

☐ Extreme - 320 kbit/s

☐ High - 192 kbit/s

☐ Normal - 128 kbit/s

☐ Lower - 96 kbit/s

Convert

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QR Code and DataMatrix Generator



PDF to Image Converter

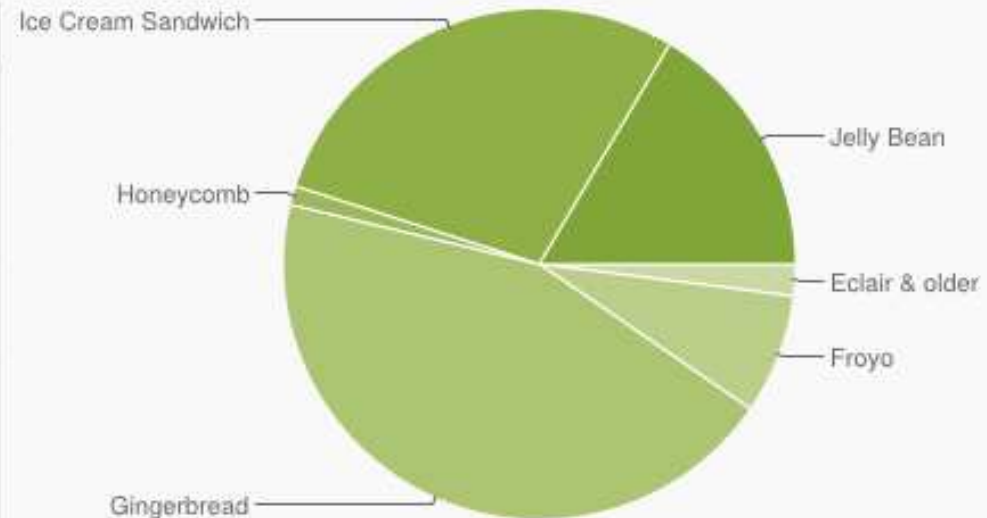
o Converter (M x)



Supported file formats and file sizes

Android version distribution, March 2013

Version	Codename	API	Distribution
1.6	Donut	4	0.2%
2.1	Eclair	7	1.9%
2.2	Froyo	8	7.6%
2.3 - 2.3.2	Gingerbread	9	0.2%
2.3.3 - 2.3.7		10	44%
3.1	Honeycomb	12	0.3%
3.2		13	0.9%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	28.6%
4.1	Jelly Bean	16	14.9%
4.2		17	1.6%



Mobile browsers: The future?



Fin
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