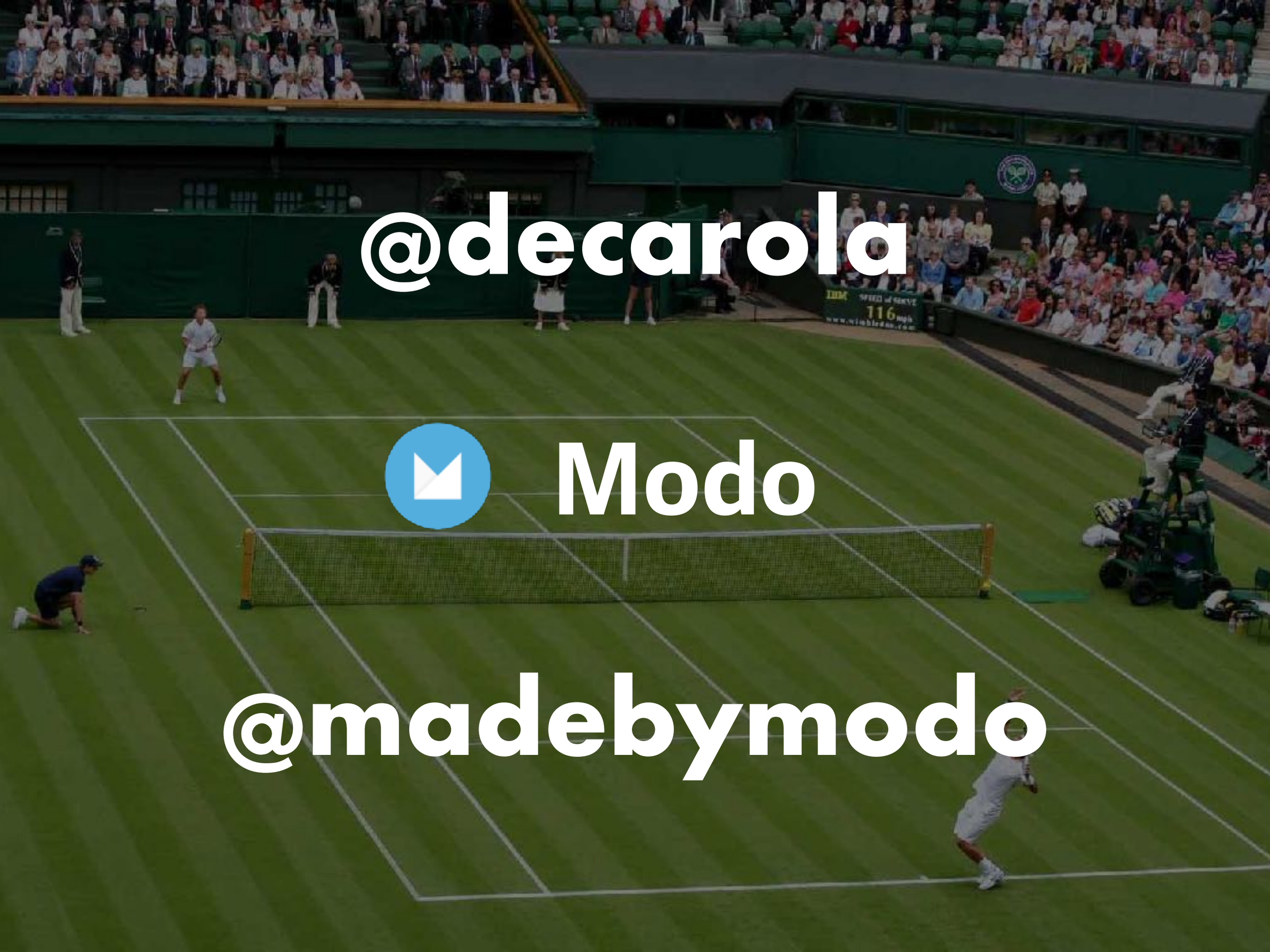
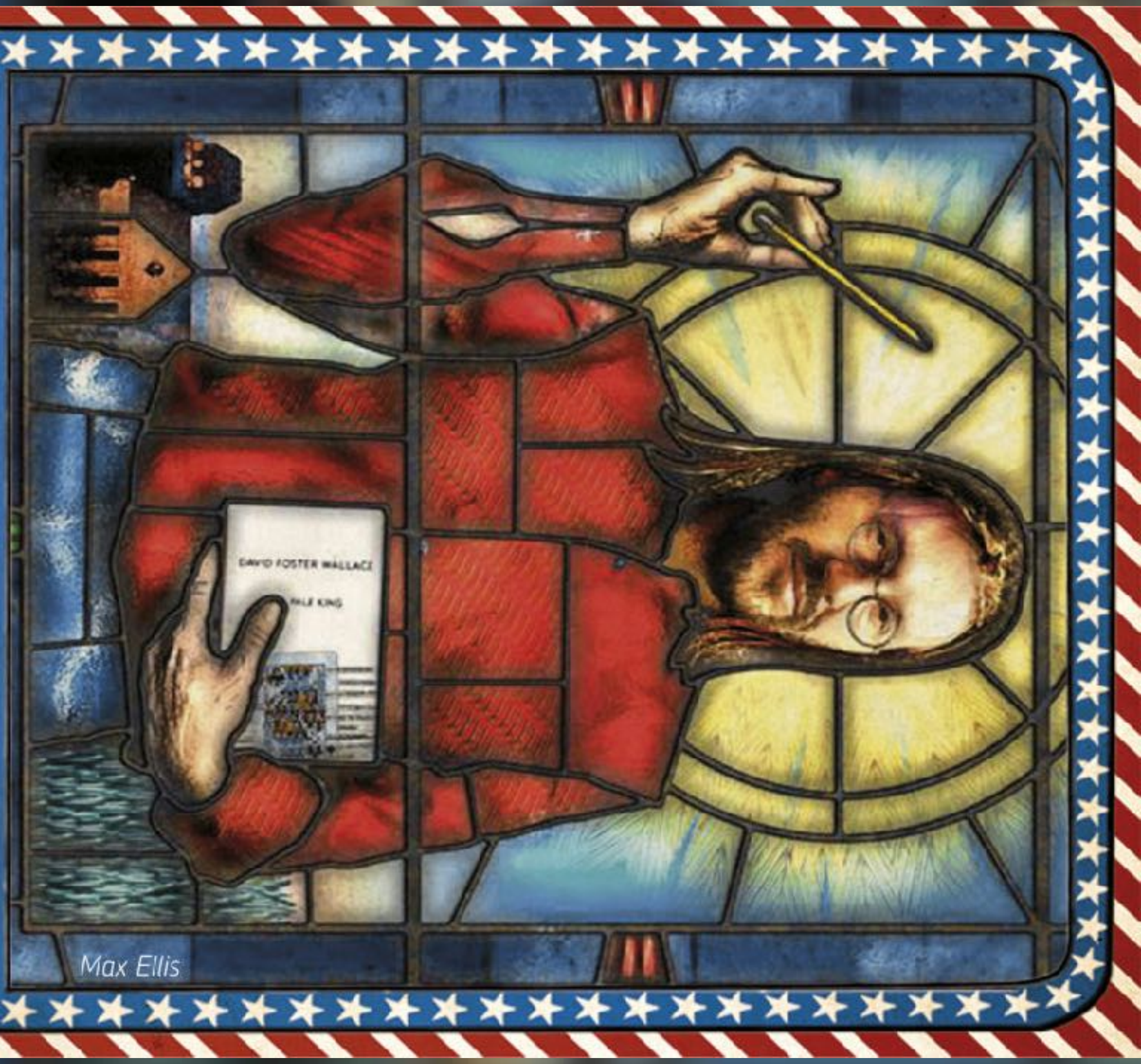
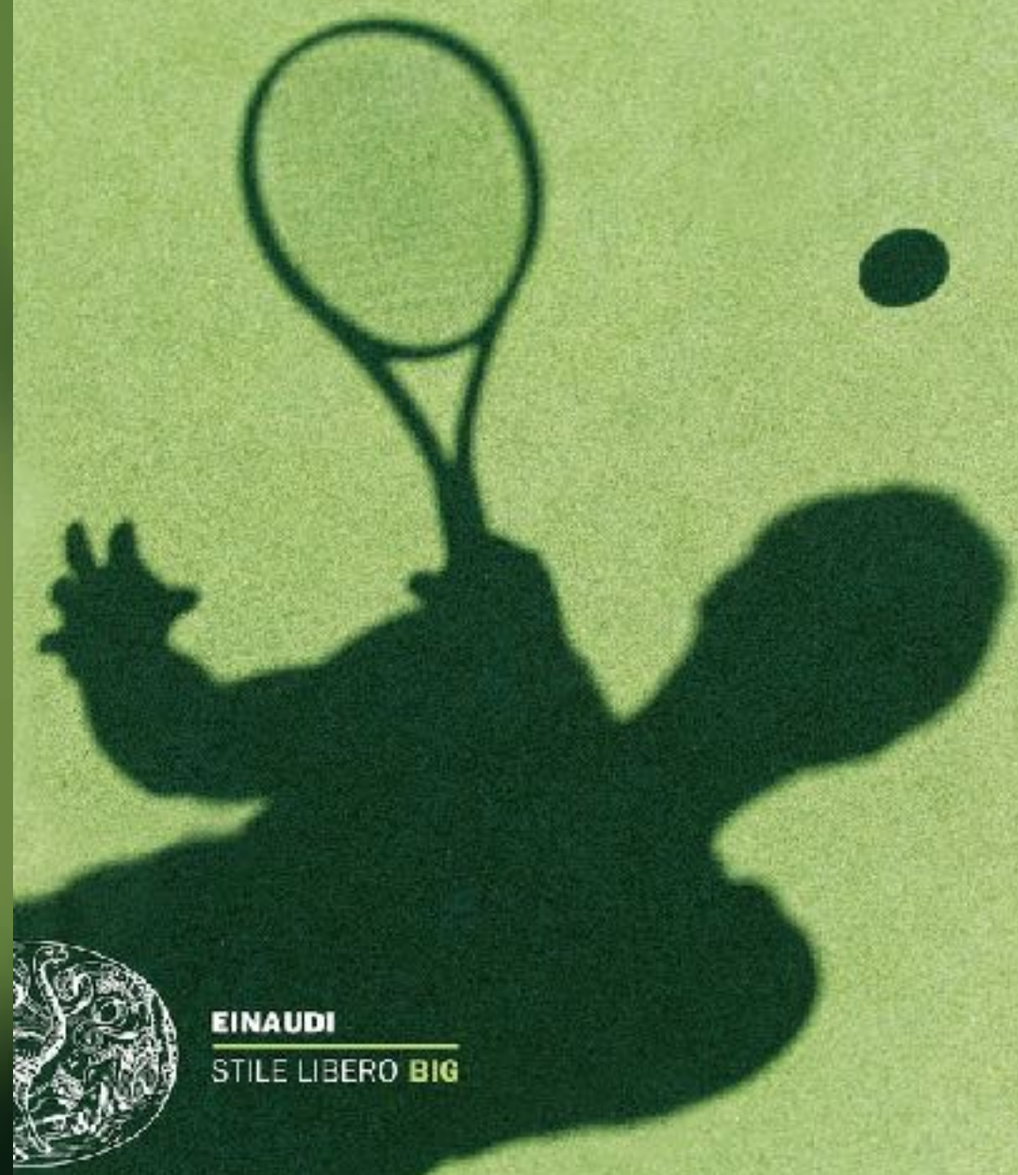
Le perfomance come esperienza religiosa


@decarola
Modo
@madebymodo

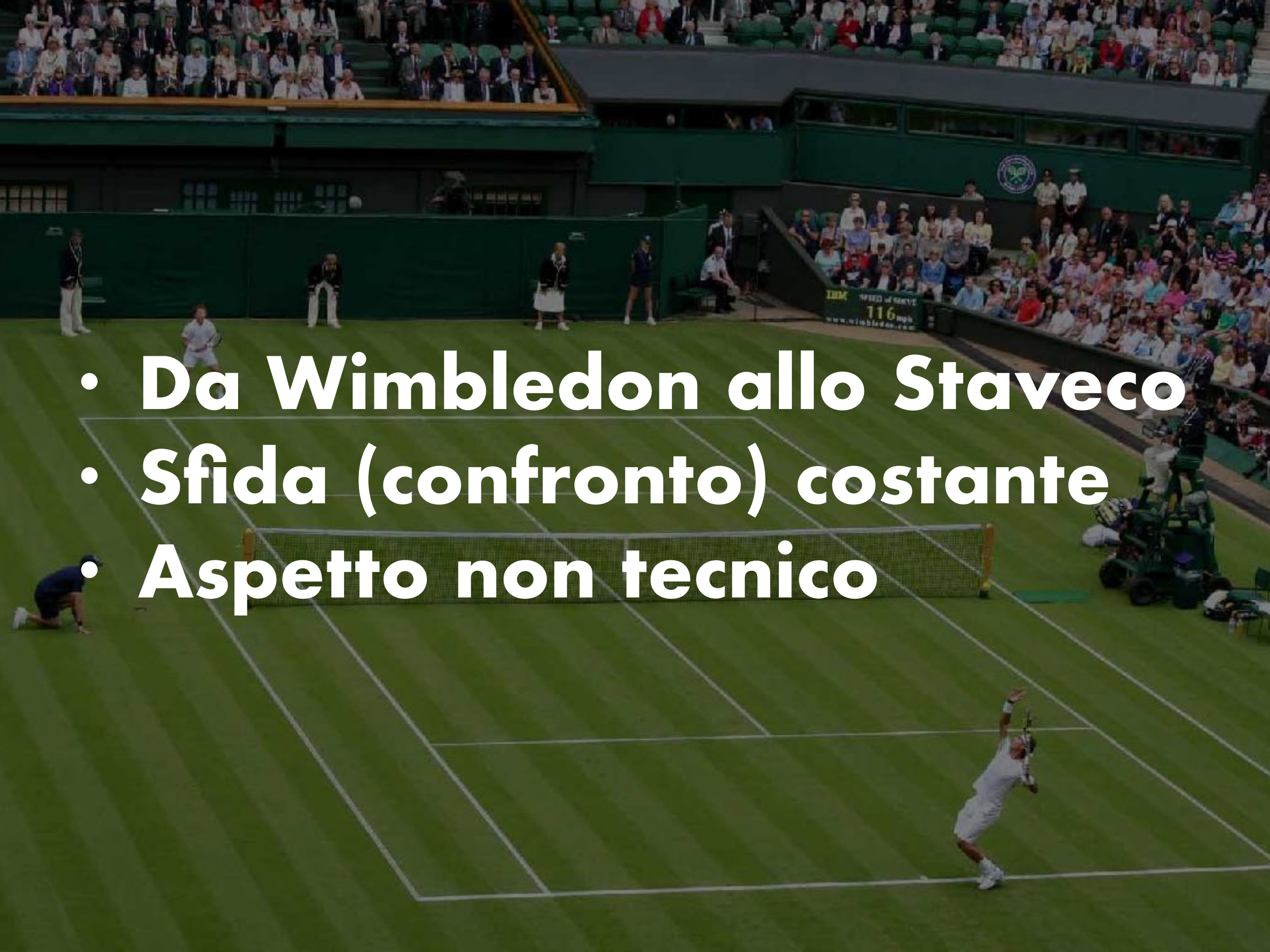

DAVID FOSTER WALLACE
PALE KING
Max Ellis

DAVID FOSTER WALLACE

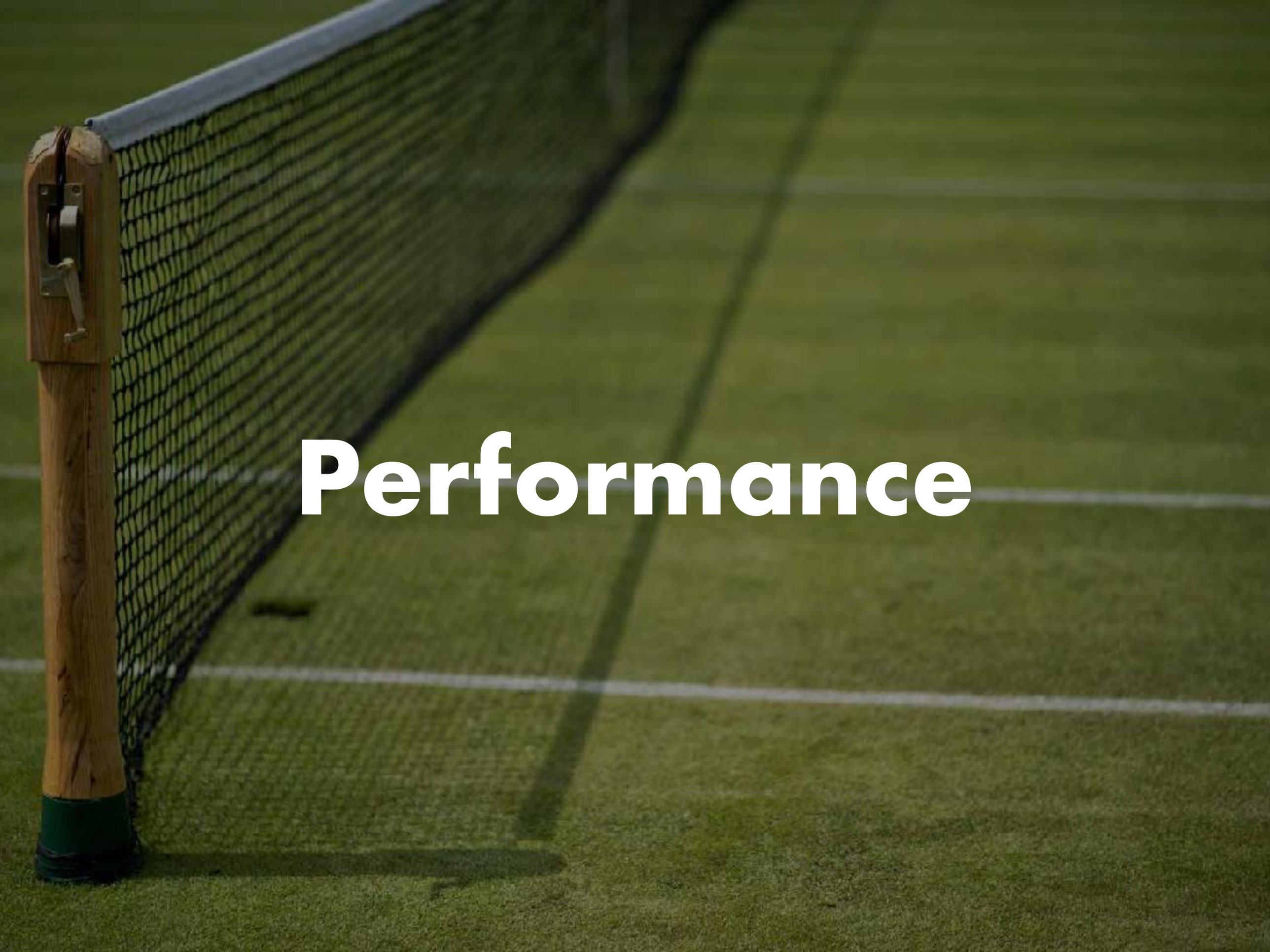
IL TENNIS COME ESPERIENZA RELIGIOSA



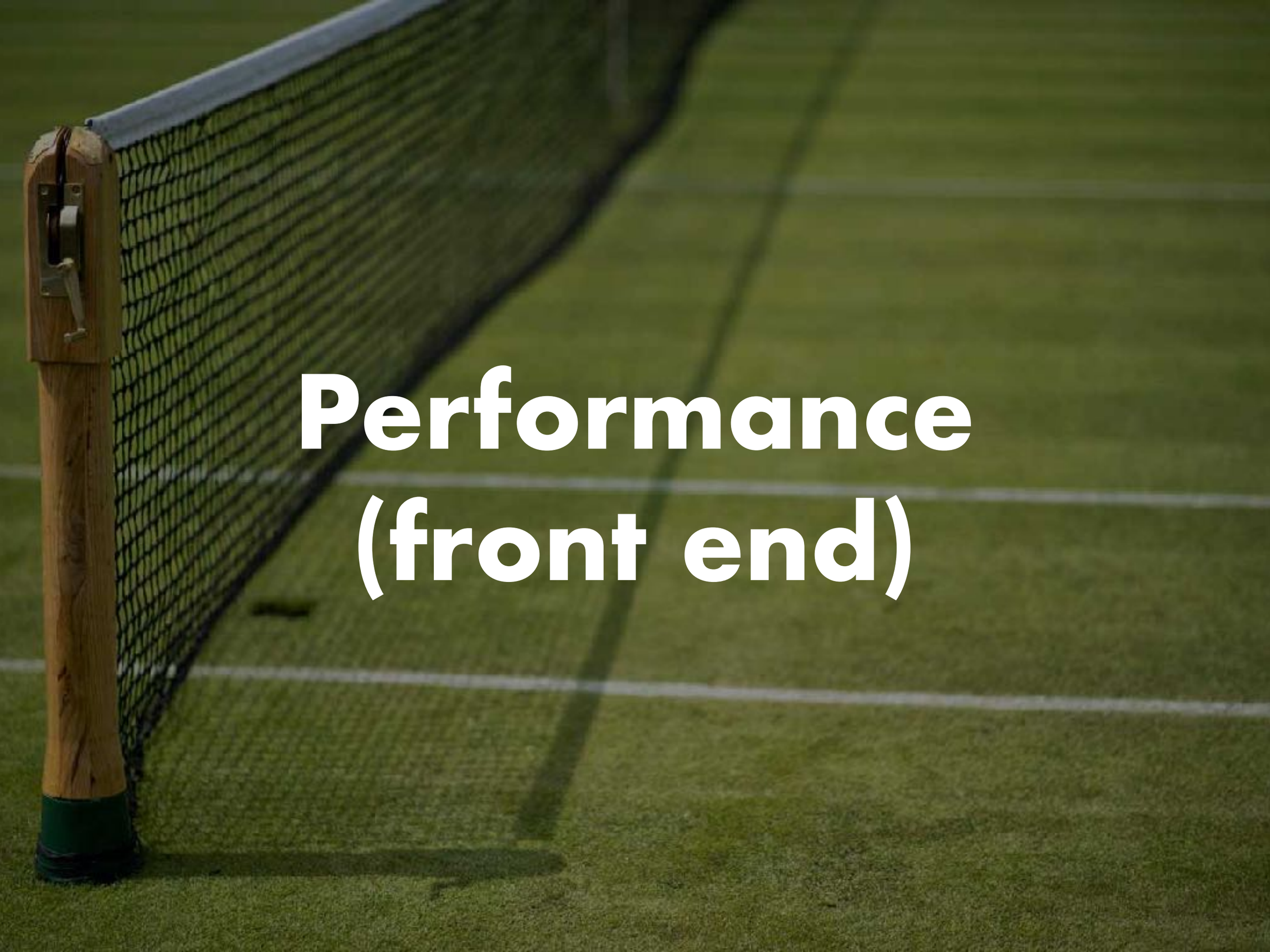
EINAUDI
STILE LIBERO BIG



- Da Wimbledon allo Staveco
- Sfida (confronto) costante
- Aspetto non tecnico



Performance



Performance (front end)

“80-90% of the end-user response time is spent on the frontend.
Start there.”

– Steve Souders *(the Performance Golden Rule)*

Migliora la SEO

Migliora la S

“Making a site faster improves the users' experience while also increasing crawl rate.”

– Gary Illyes - *What Crawl Budget Means for Googlebot*

Migliora la UX

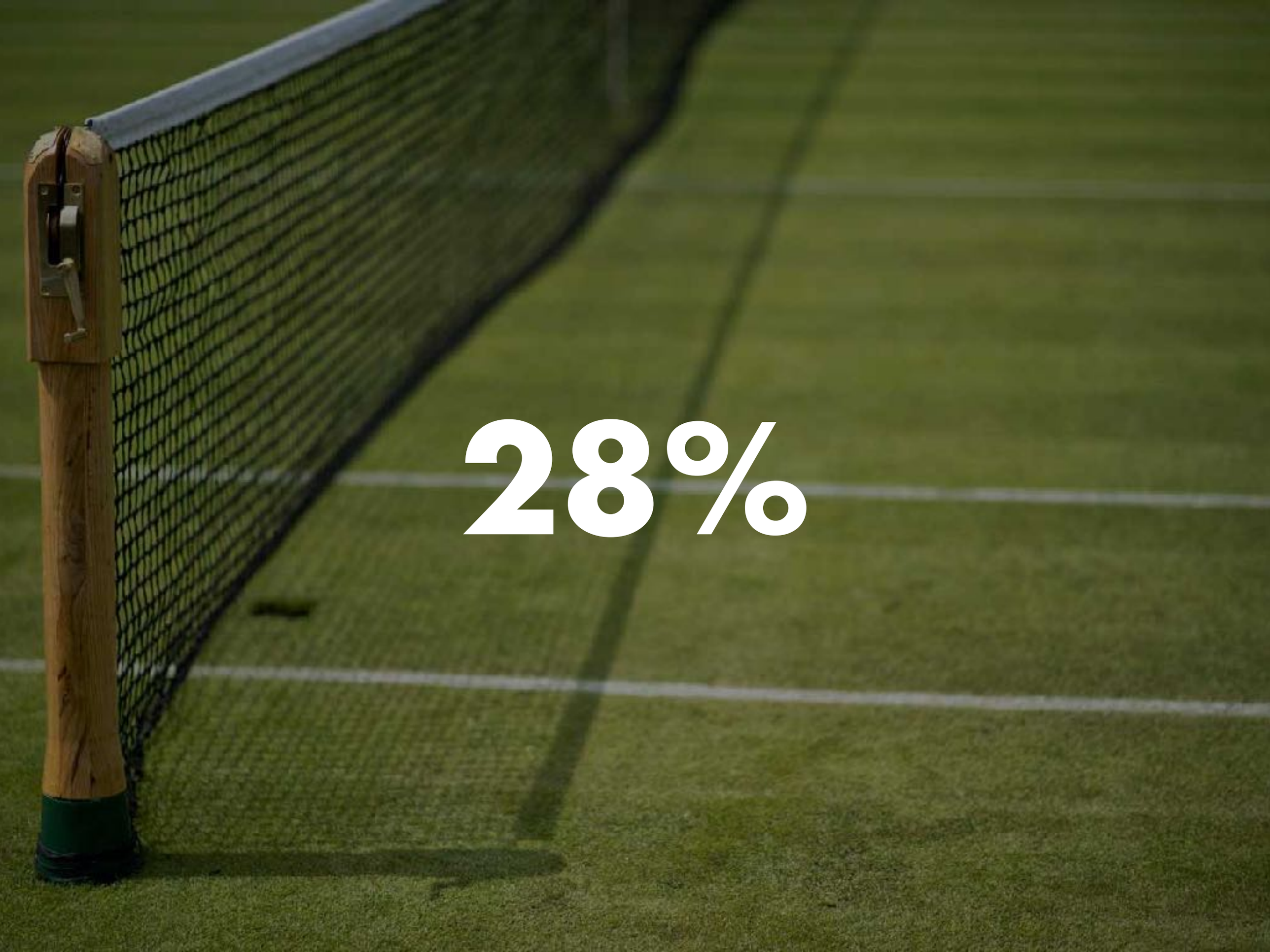
"Users expect pages to load in two seconds, and after three seconds, up to 40% of users will abandon your site"

– Lara Hogan (*Designing for Performance: Weighing Aesthetics and Speed*)
– Gomez (*Why Web Performance Matters: Is Your Site Driving Customers Away?*)

"Users expect pages to load in two seconds, and after three seconds, up to 40% of users will abandon your site"

– Lara Hogan (*Designing for Performance: Weighing Aesthetics and Speed*)
– Gomez (*Why Web Performance Matters: Is Your Site Driving Customers Away?*)

Migliora la 💰 💰 💰


28%

28%

Abbandona permanentemente un sito perché lento.

28%

Abbandona permanentemente un sito perché lento.

Akamai

Shopzilla riducendo i tempi di caricamento del sito da 7 a 2 secondi ha ottenuto un incremento del 25% di page views e un incremento del 7-12% delle revenue

Shopzilla Site Redesign – *We get what we measure*

Shopzilla riducendo i tempi di caricamento del sito da 7 a 2 secondi ha ottenuto un incremento del 25% di page views e un incremento del 7-12% delle revenue

Shopzilla Site Redesign – *We get what we measure*

Shopzilla riducendo i tempi di caricamento del sito da 7 a 2 secondi ha ottenuto un incremento del 25% di page views e un incremento del 7-12% delle revenue

Shopzilla Site Redesign – *We get what we measure*

@graziarcazzo

“Un sito veloce è meglio di un sito lento”.

@graziarcazzo

PREMIERE LIVE

Riassunto

Riassunto

- Come il tennis 🎾
  - Per ogni tipologia;
  - Per ogni aspetto;
  - Tecnico o no;

Riassunto

- Come il tennis 🎾
  - Per ogni tipologia;
  - Per ogni aspetto;
  - Tecnico o no;
- Gli utenti ci fanno caso (UX);
- Google ci fa caso (SEO);
- 💰💰💰 ci fanno caso;

Riassunto

- Come il tennis 🎾
  - Per ogni tipologia;
  - Per ogni aspetto;
  - Tecnico o no;
- Gli utenti ci fanno caso (UX);
- Google ci fa caso (SEO);
- 💰💰💰 ci fanno caso;
- Dr. Chiodarelli is the new Rafa Nadal

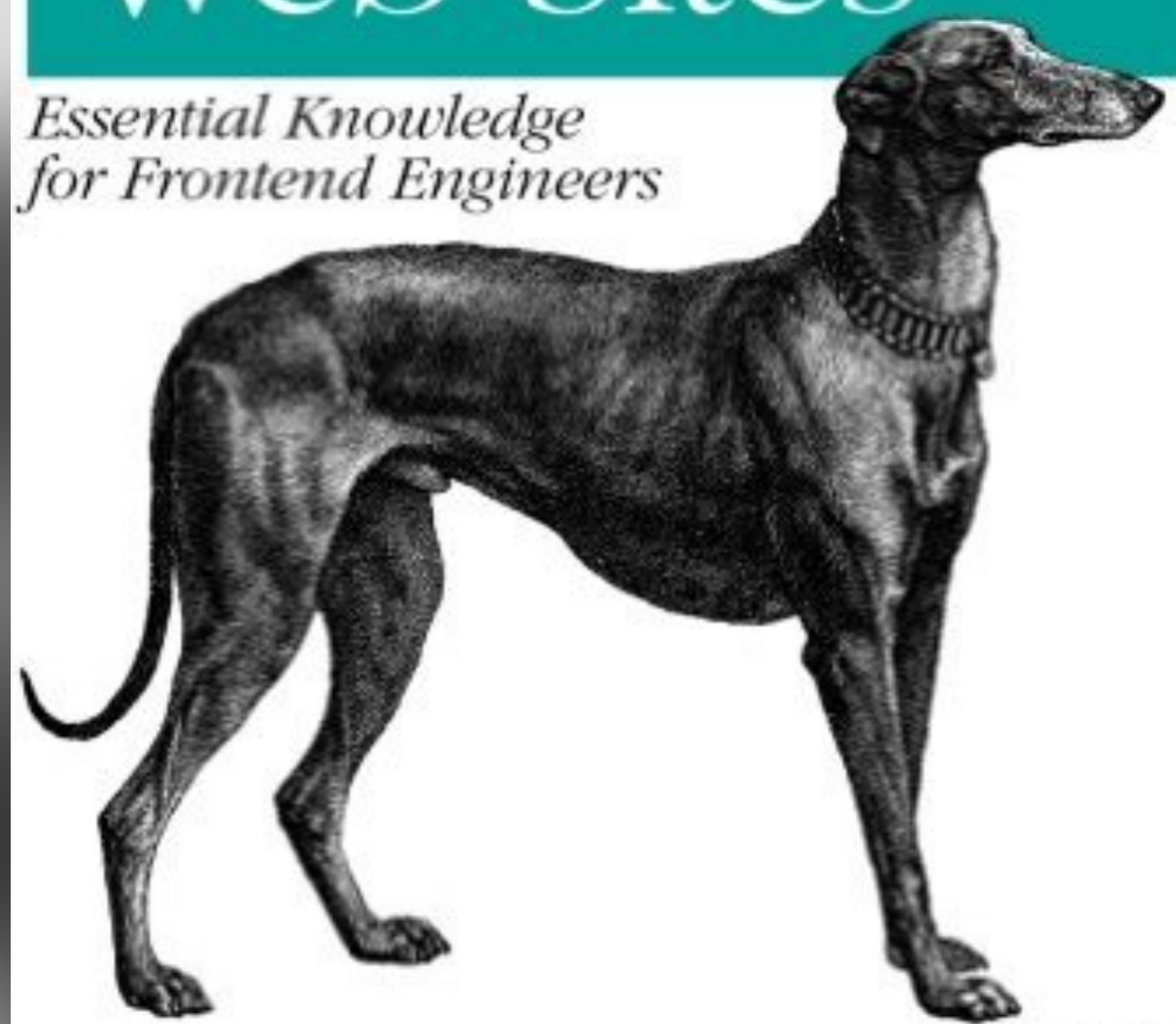
Performance ieri

(Steve Souders)

14 Steps to Faster-Loading Web Sites

High Performance Web Sites

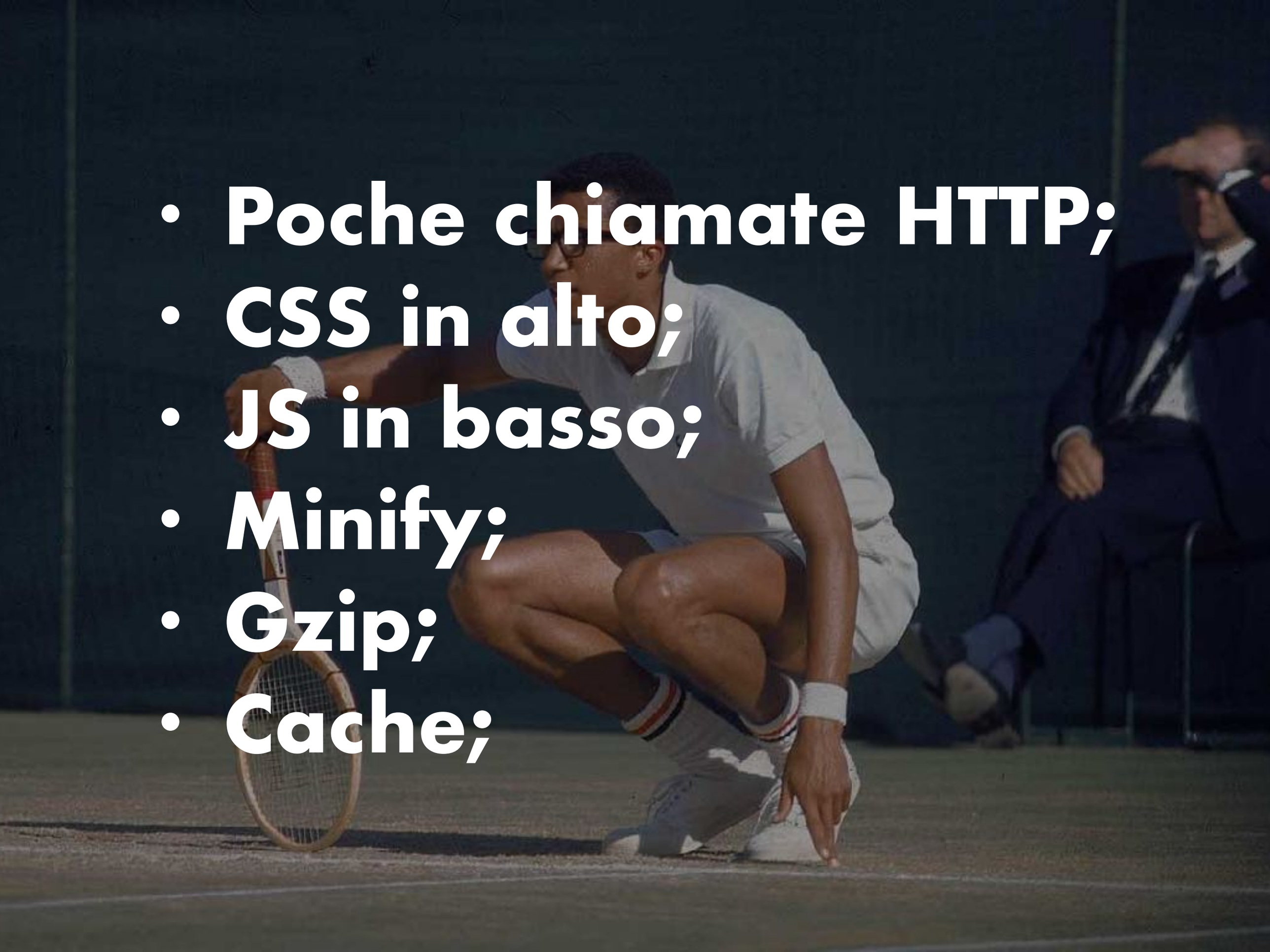
Essential Knowledge for Frontend Engineers



O'REILLY®

Steve Souder

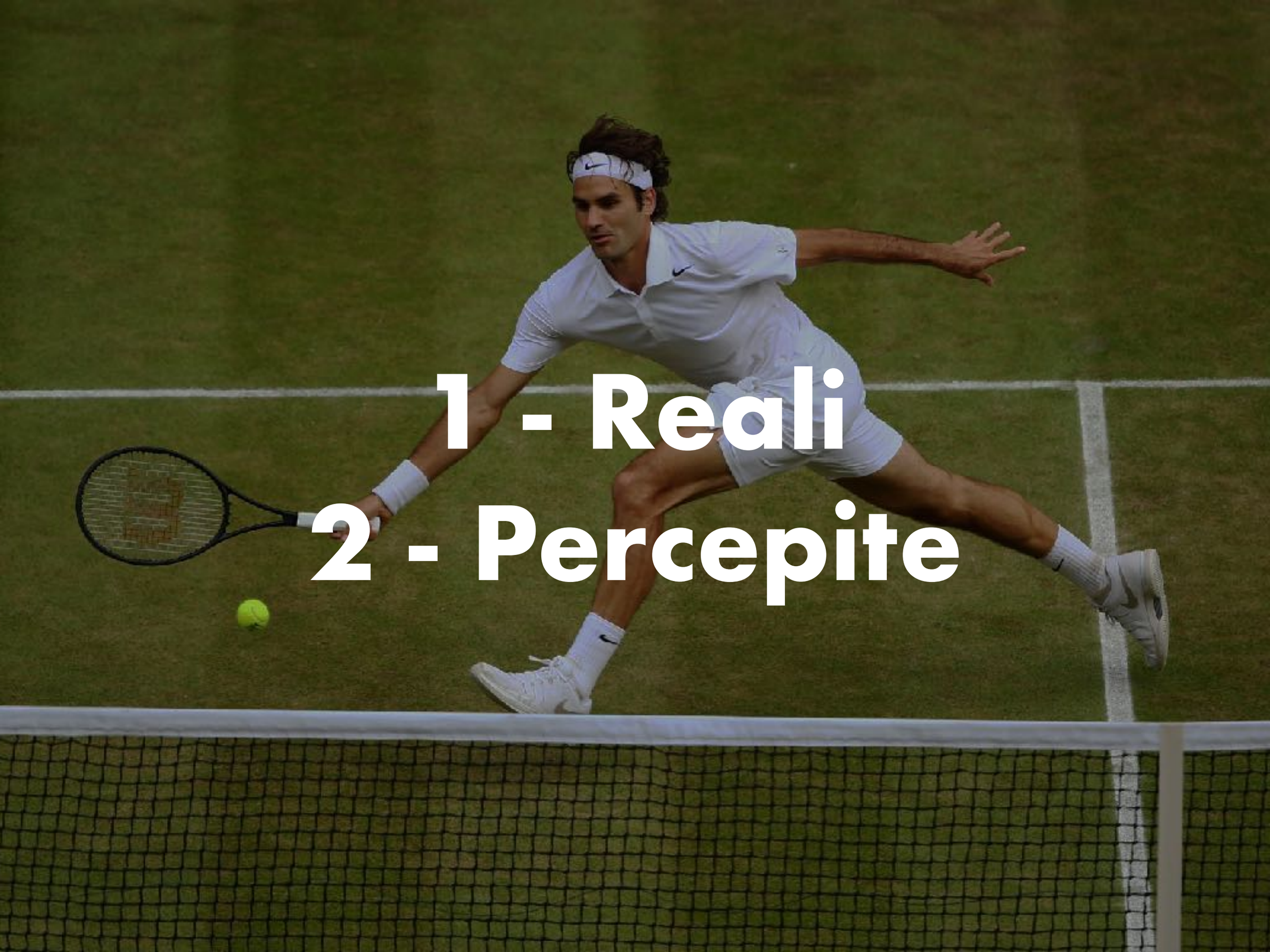
Foreword by Nate Koechl



- Poche chiamate HTTP;
- CSS in alto;
- JS in basso;
- Minify;
- Gzip;
- Cache;

Oggi invece?

2 tipi di performance


1 - Reali
2 - Percepite

Misurare

Google page speed

Google page speed

@graziarcazzo

Lighthouse

Chrome

CSSDay 2017 _ Welcome

2017.cssday.it

TALKS PROGRAMMA DOVE REGISTRATI

luke, io sono tuo padre

L'unica

Elements Console Sources Network Performance Memory Application Security Audits

Screenshots Memory

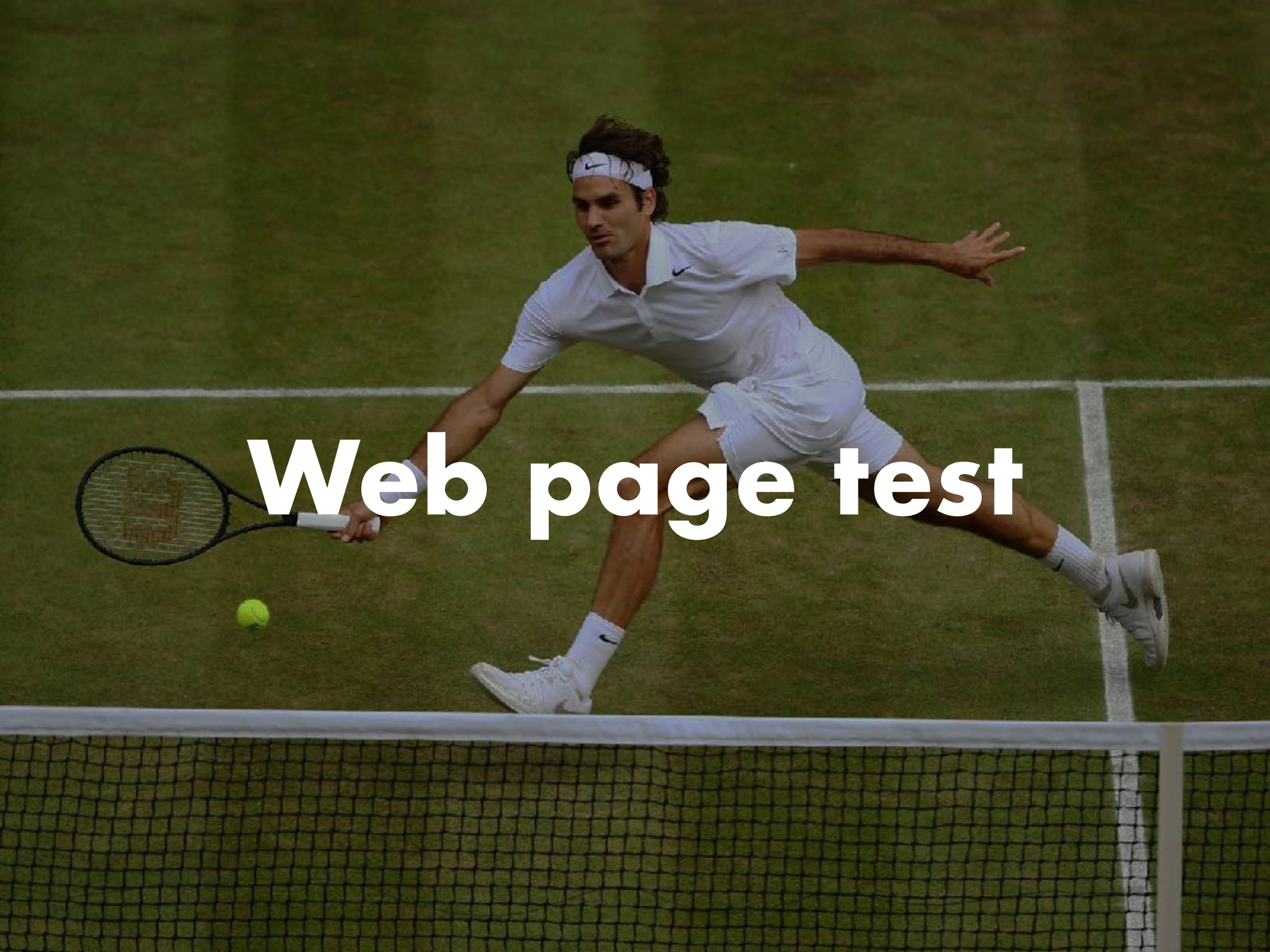
Frames Interactions Main

Summary Bottom-Up Call Tree Event Log

Range: 624 ms – 1.62 s

1000 ms

58.5 ms Loading
398.7 ms Scripting
124.3 ms Rendering
5.2 ms Painting
181.9 ms Other
220.9 ms Idle



Web page test

WebPagetest Test Result - ...

www.webpagetest.org/result/170308_85_PW4/

Login | Register | Login with Google

WEBPAGETEST

Tu web online, siempre. Web Hosting duplika

HOME | TEST RESULT | TEST HISTORY | FORUMS | DOCUMENTATION | ABOUT

Web Page Performance Test for

2017.cssday.it/

From: Dulles, VA - Chrome - Cable
8/3/2017, 12:21:00

Need help improving?

A	A	B	A	F	X
First Byte Time	Keep-alive Enabled	Compress Transfer	Compress Images	Cache static content	Effective use of CDN

Summary | Details | Performance Review | Content Breakdown | Domains | Processing Breakdown | Screen Shot

Tester: VM3-03-192.168.10.82
First View only
Test runs: **3**
Re-run the test

Raw page data - Raw object data
Export HTTP Archive (.har)
View Test Log

Performance Results (Median Run)

						Document Complete			Fully Loaded				
	Load Time	First Byte	Start Render	Speed Index	Interactive (beta)	Time	Requests	Bytes In	Time	Requests	Bytes In	Certificates	Cost
First View (Run 1)	7.895s	0.097s	1.283s	1510	2.451s	7.895s	45	4,382 KB	8.162s	50	4,396 KB	33 KB	$$$$$

Plot Full Results

Test Results

Run 1:

	Waterfall	Screen Shot	Video
First View (7.895s)			Filmstrip View

8/3/2017, 12:21:00

Summary | Details | Performance Review | Content Breakdown | Domains | Processing Breakdown

Tester: VM3-03-192.168.10.82

First View only

Test runs: **3**

Re-run the test

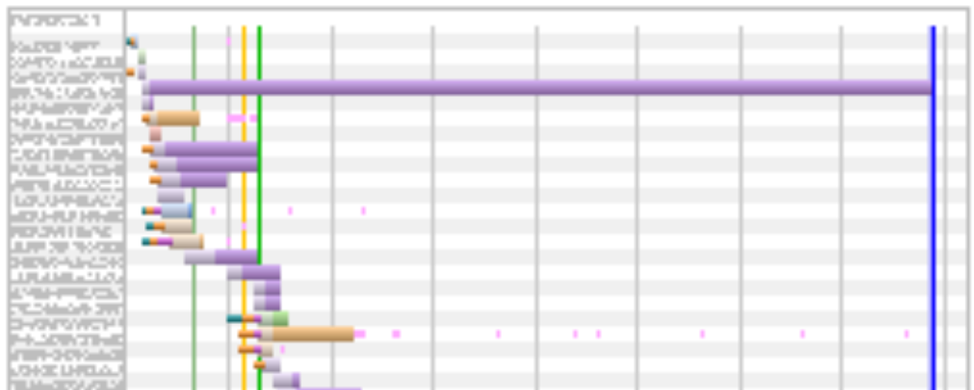
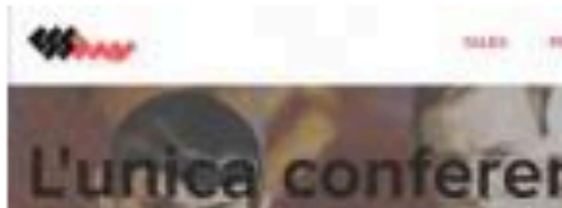
Performance Results (Median Run)

	Load Time	First Byte	Start Render	Speed Index	Interactive (beta)	Document Complete			
						Time	Requests	Bytes In	Ti
First View (Run 1)	7.895s	0.097s	1.283s	1510	2.451s	7.895s	46	4,382 KB	8.1

Plot Full Results

Test Results

Run 1:

	Waterfall	Screen Sl
First View (7.895s)		

8/3/2017, 12:21:00

Summary | Details | Performance Review | Content Breakdown | Domains | Processing Breakdown

Tester: VM3-03-192.168.10.82

First View only

Test runs: **3**

Re-run the test

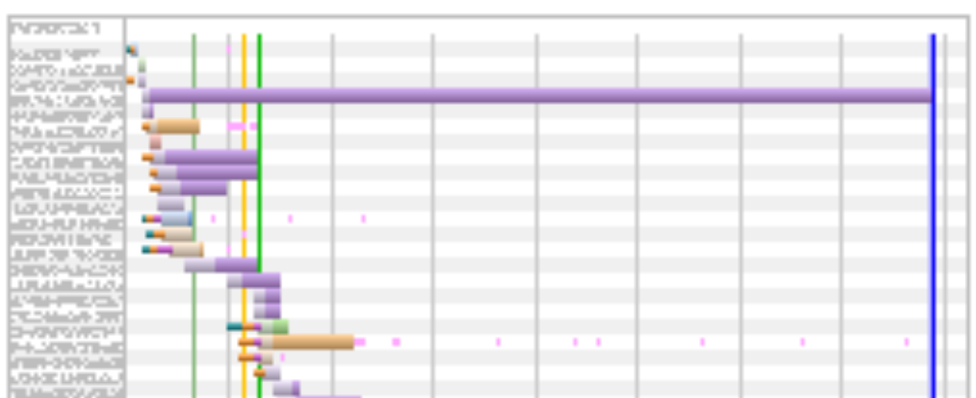
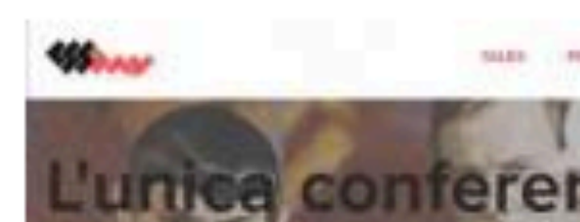
Performance Results (Median Run)

	Load Time	First Byte	Start Render	Speed Index	Interactive (beta)	Document Complete			
						Time	Requests	Bytes In	Ti
First View (Run 1)	7.895s	0.097s	1.283s	1510	2.451s	7.895s	46	4,382 KB	8.1

Plot Full Results

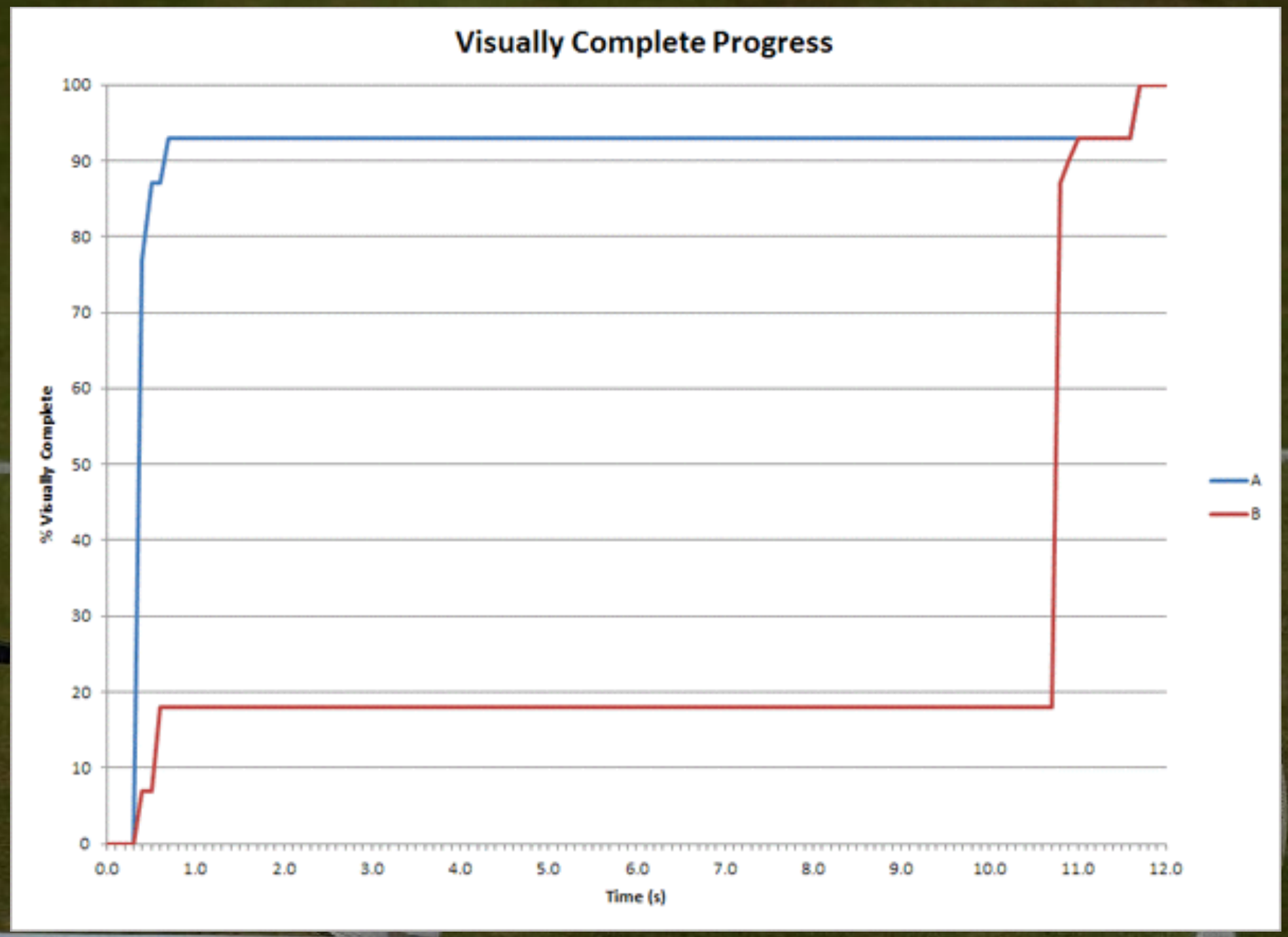
Test Results

Run 1:

	Waterfall	Screen Sl
First View (7.895s)		

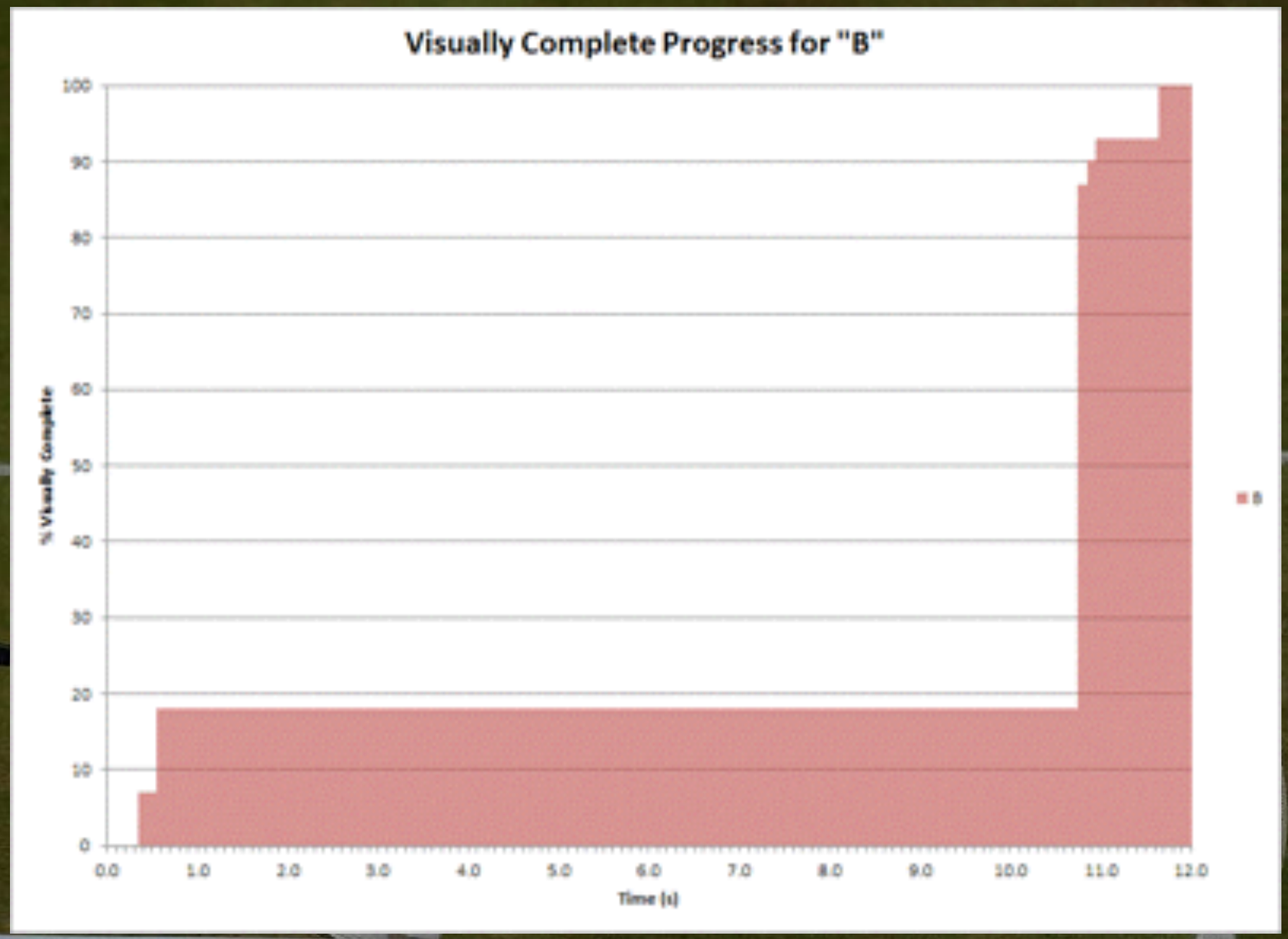
Speed Index

0.0s
0.5s
1.0s
Growing with the Web
Welcome!
My experiences upgrading from Maruku to Kramdown
0%
87%
100%



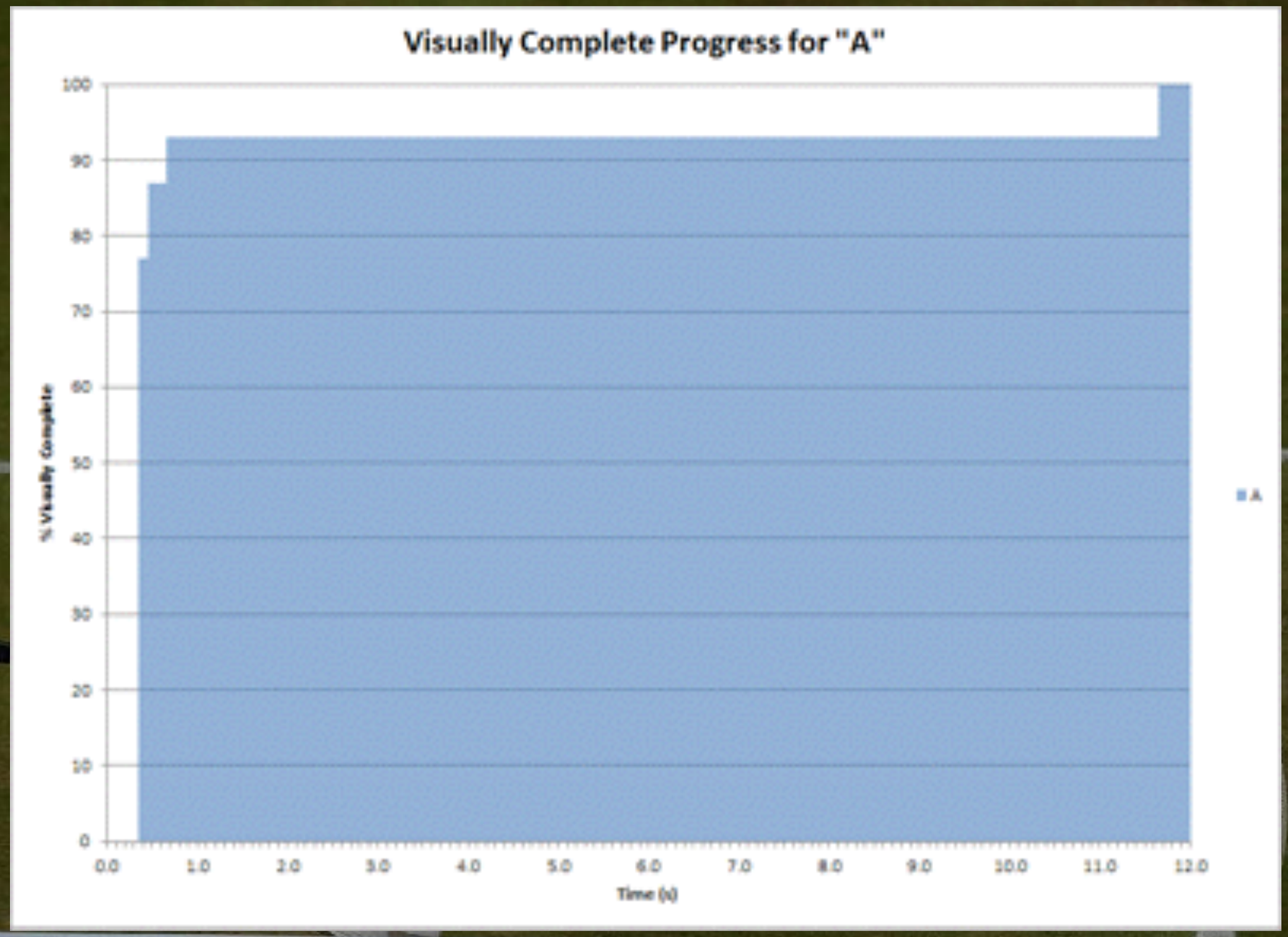
% Visivamente completa

Tempo di caricamento



% Visivamente completa

Tempo di caricamento

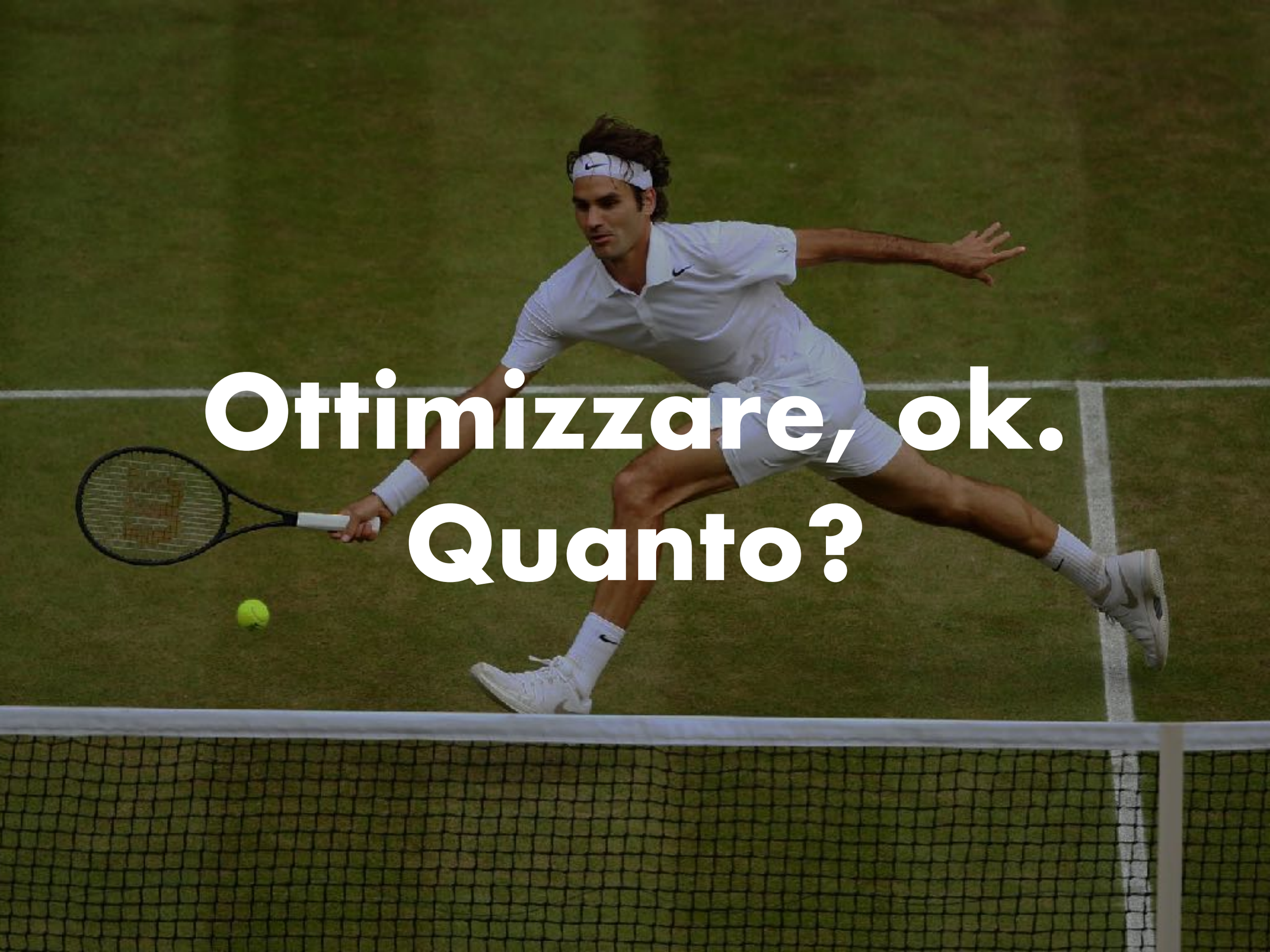


% Visivamente completa

Tempo di caricamento

- Speed index sotto 1000
- Primo paint sotto 1 sec

Speedcurve, Pingdom, YSlow

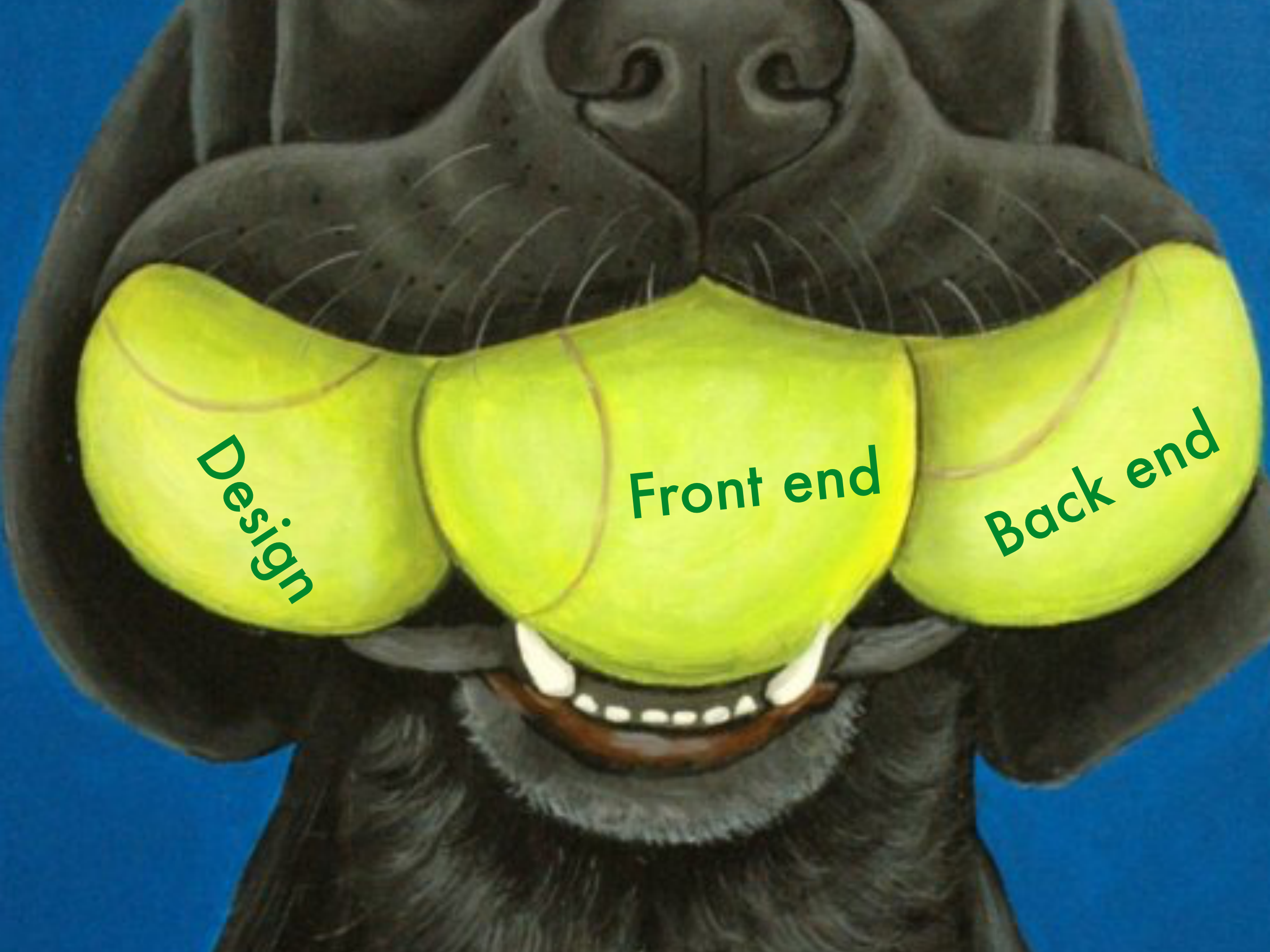


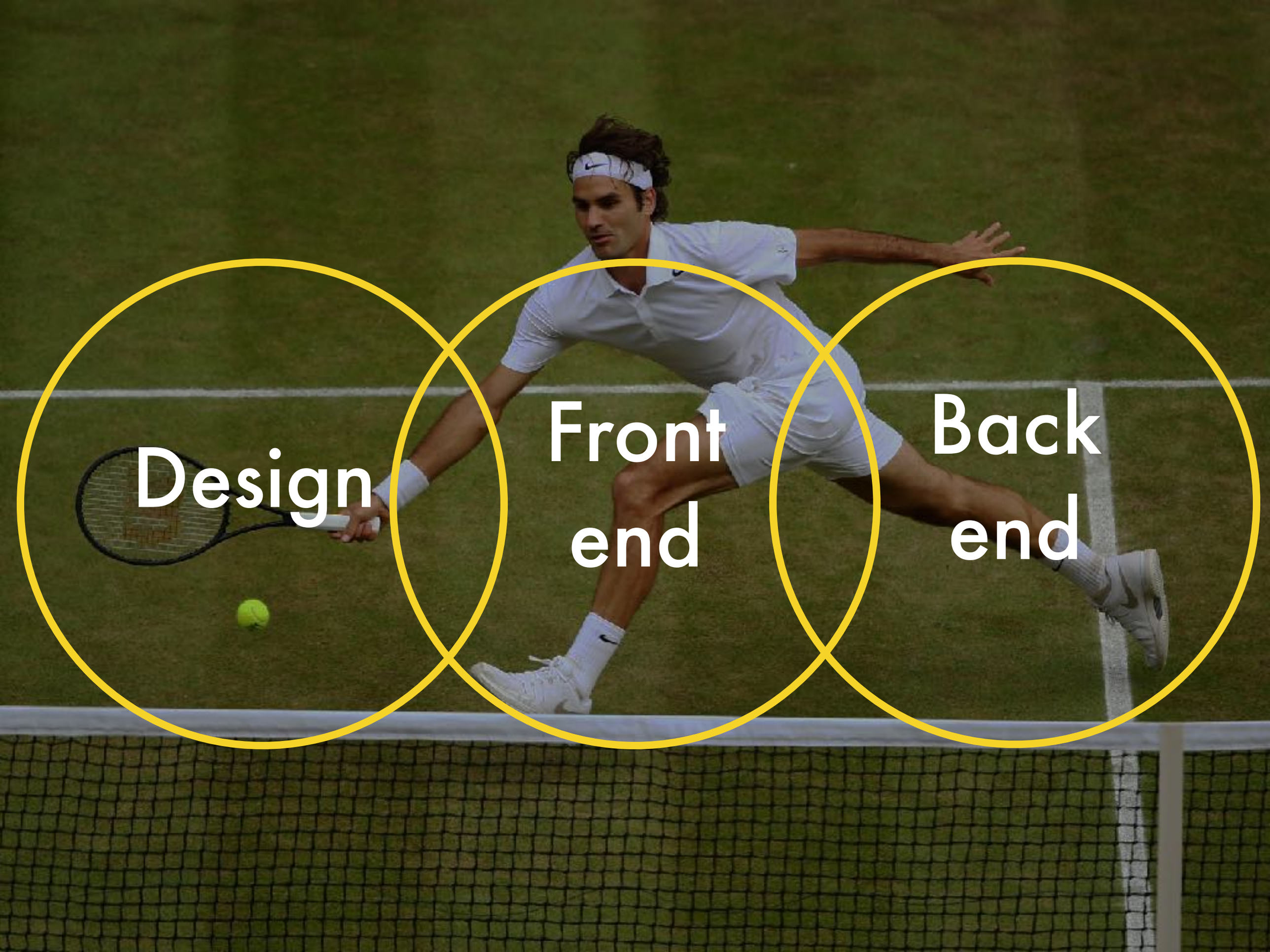
Ottimizzare, ok.

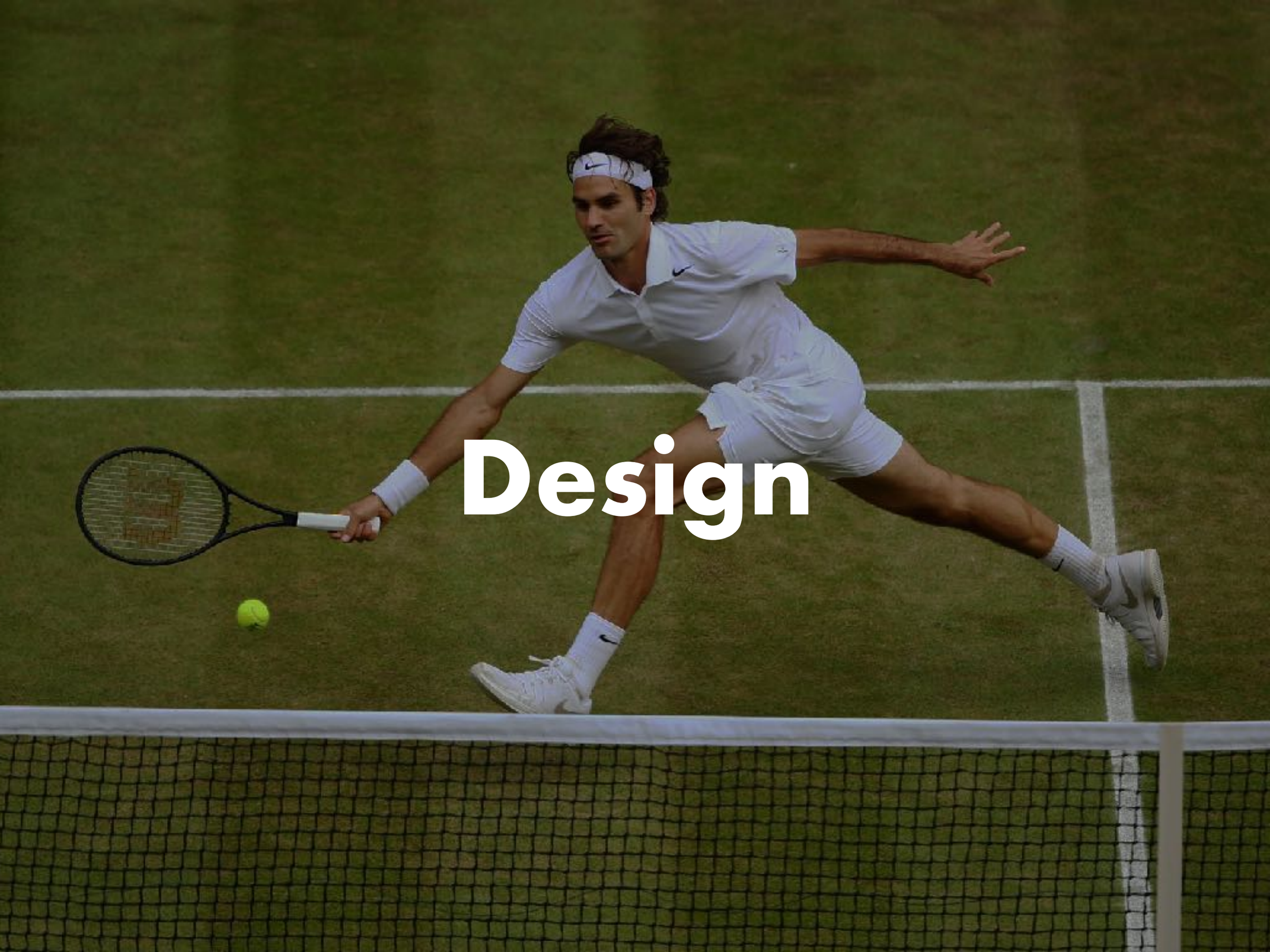
Quanto?

20%

<front-end/>

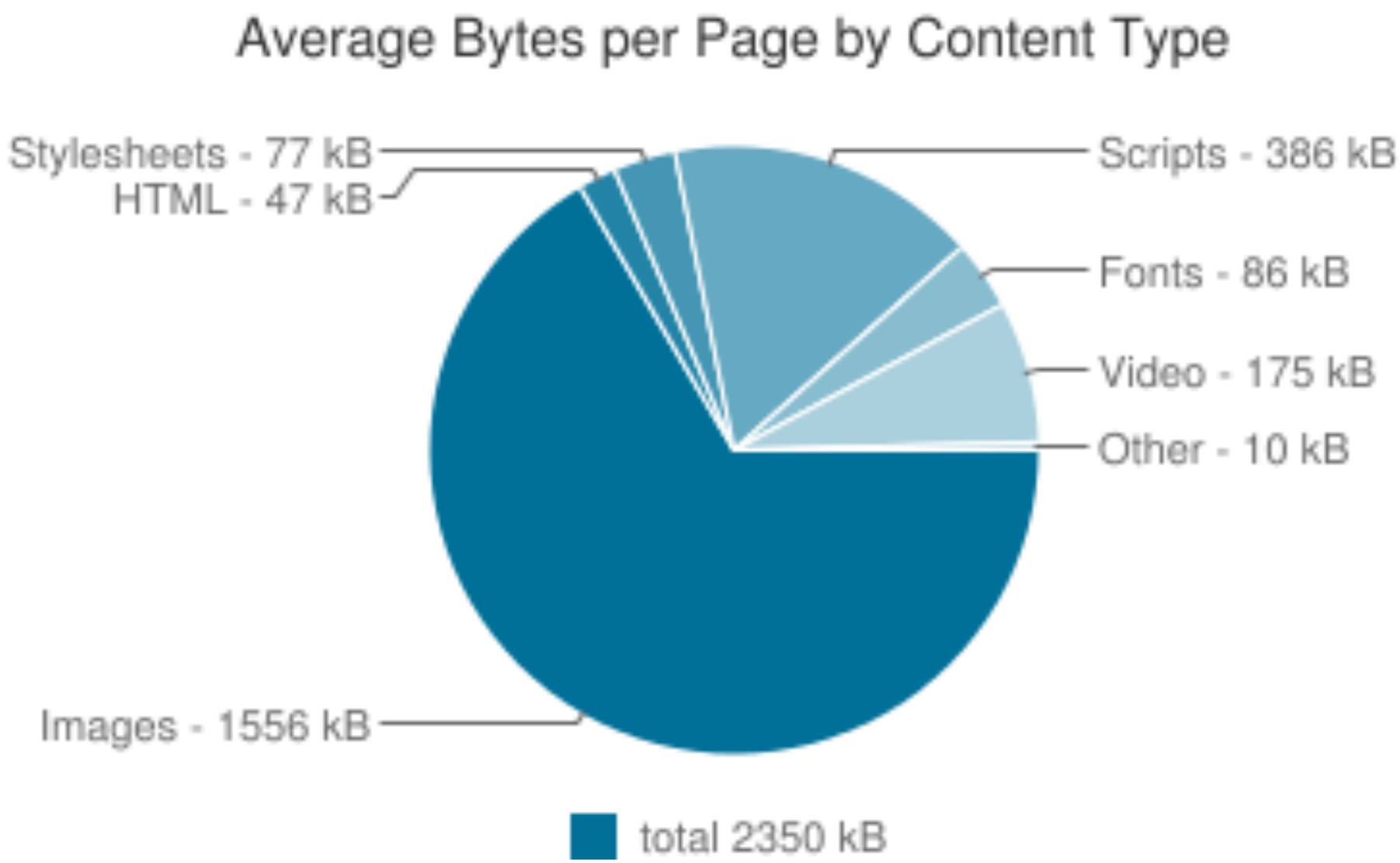

Design
Front end
Back end

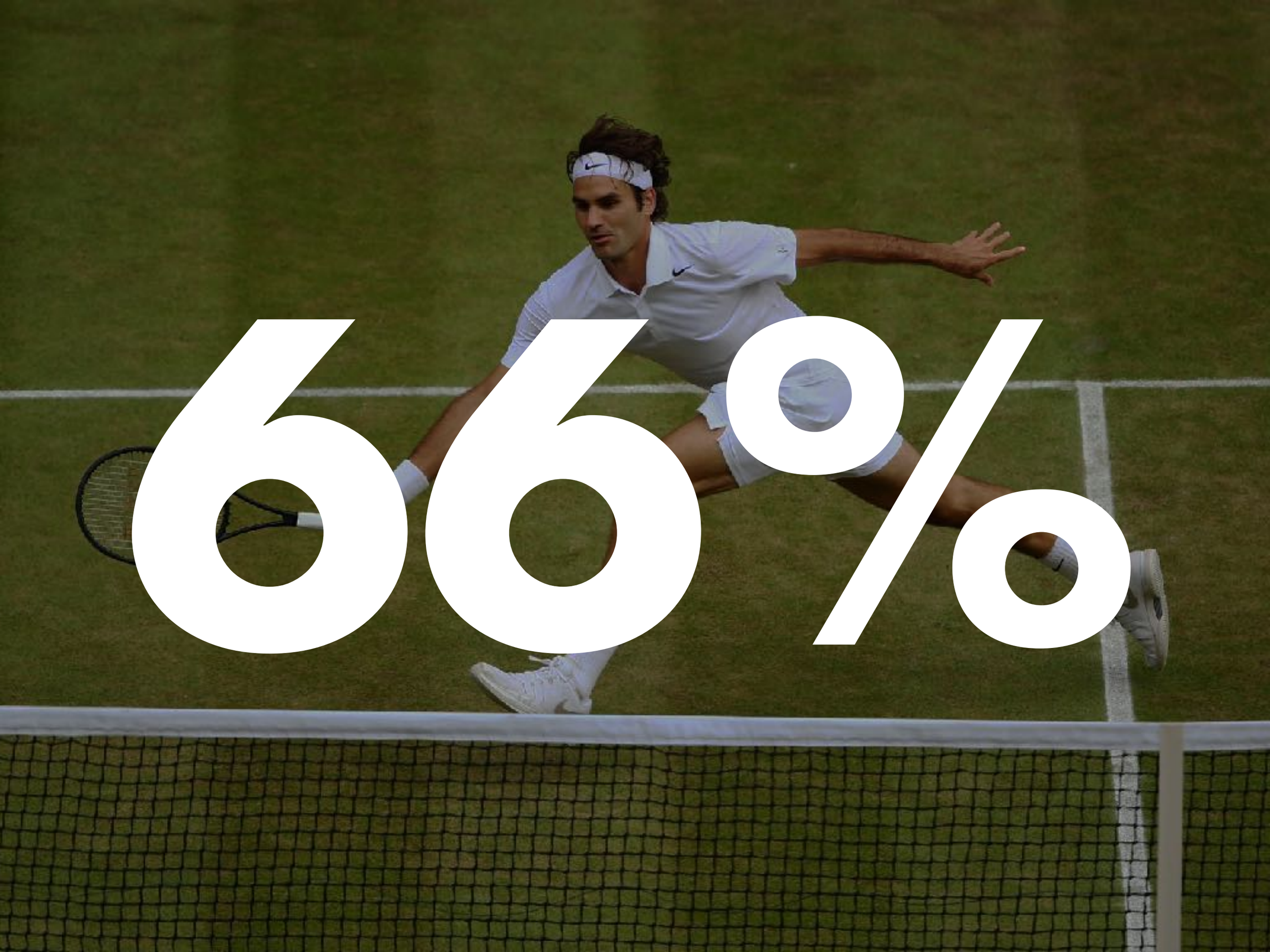

Design
Front end
Back end

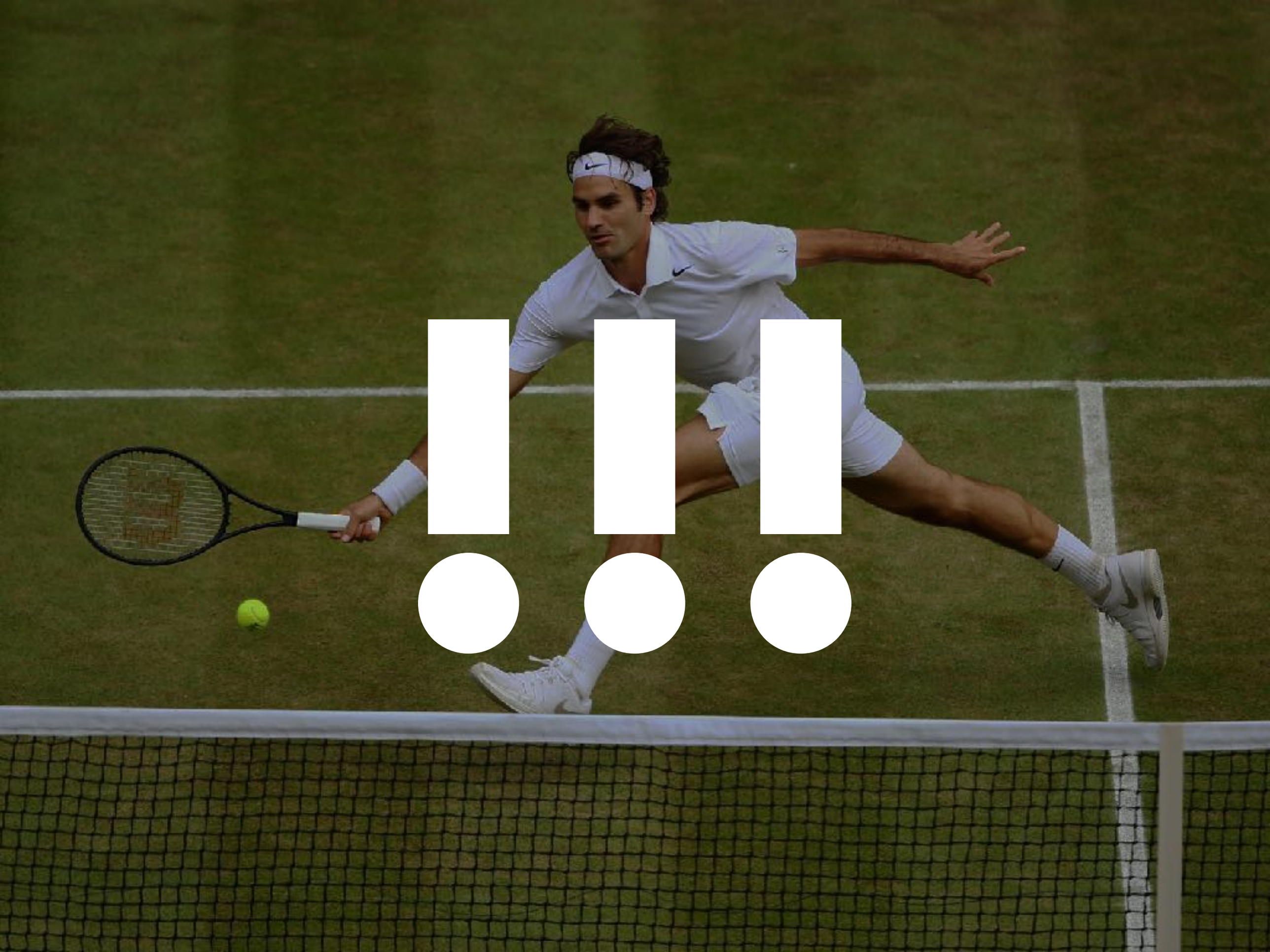


Design

<IMG>


Average Bytes per Page by Content Type
Stylesheets - 77 kB
HTML - 47 kB
Scripts - 386 kB
Fonts - 86 kB
Video - 175 kB
Other - 10 kB
Images - 1556 kB
total 2350 kB


66%



Immagini responsive

IMMAGINI RESPONSIVE!

Lazy load

GIF

giflossy

MozJPEG, ImageMagick

kraken.io
imgix.com
imagefly.io
resrc.it

<front end/>

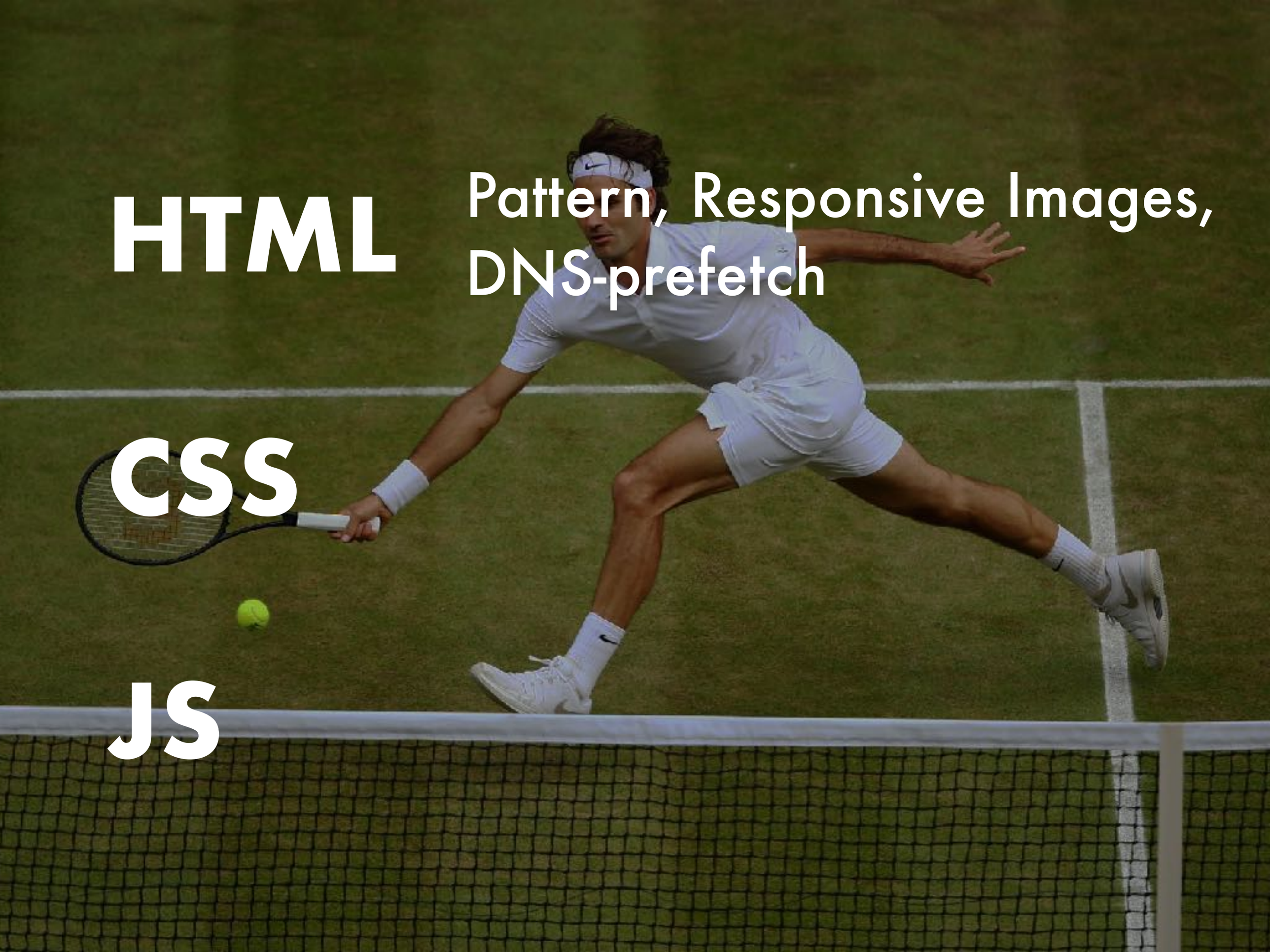
RWD

Mobile first

Progressive enhancement

HTML CSS JS

HTML
CSS
JS

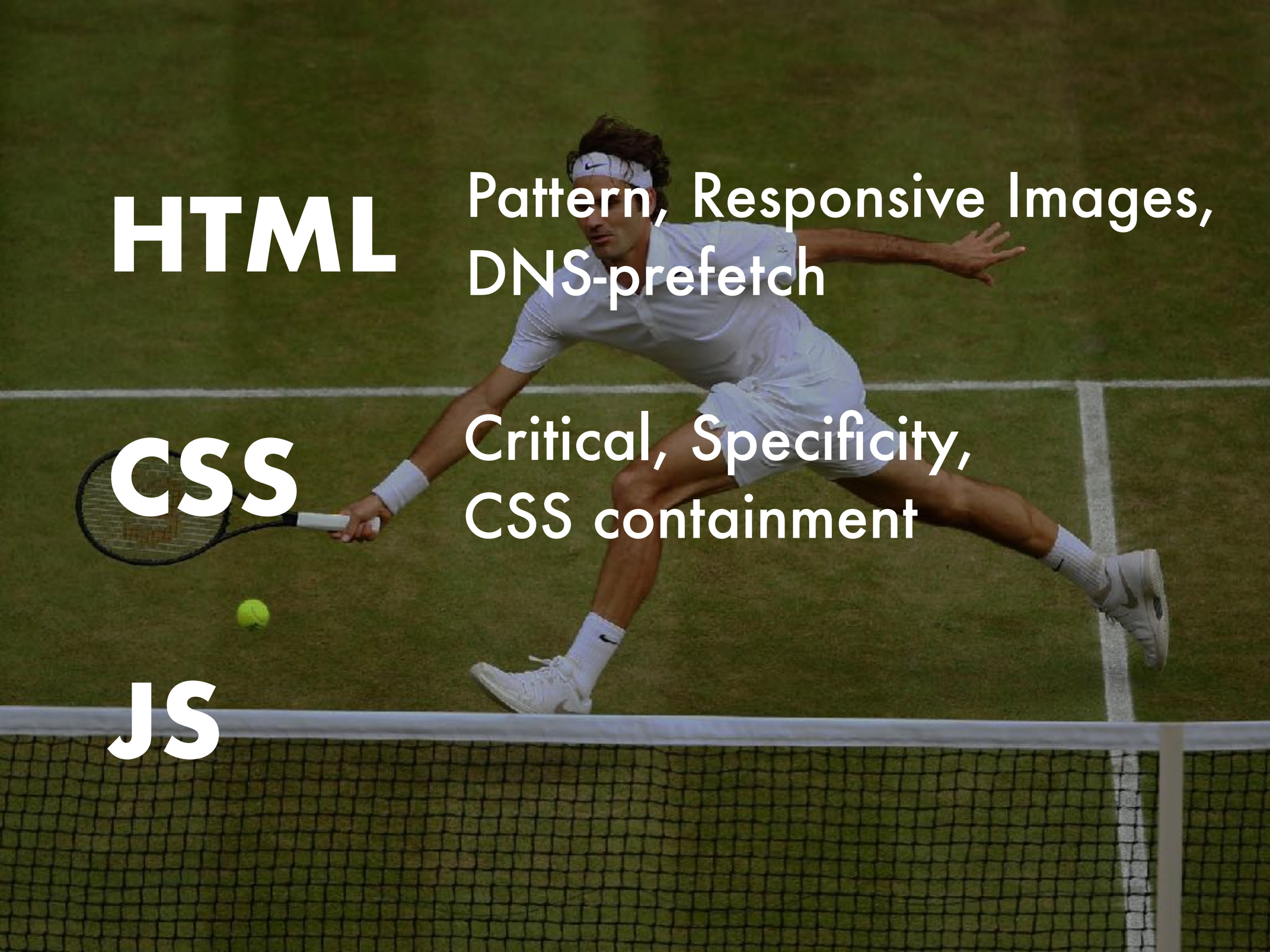


HTML

Pattern, Responsive Images, DNS-prefetch

CSS

JS



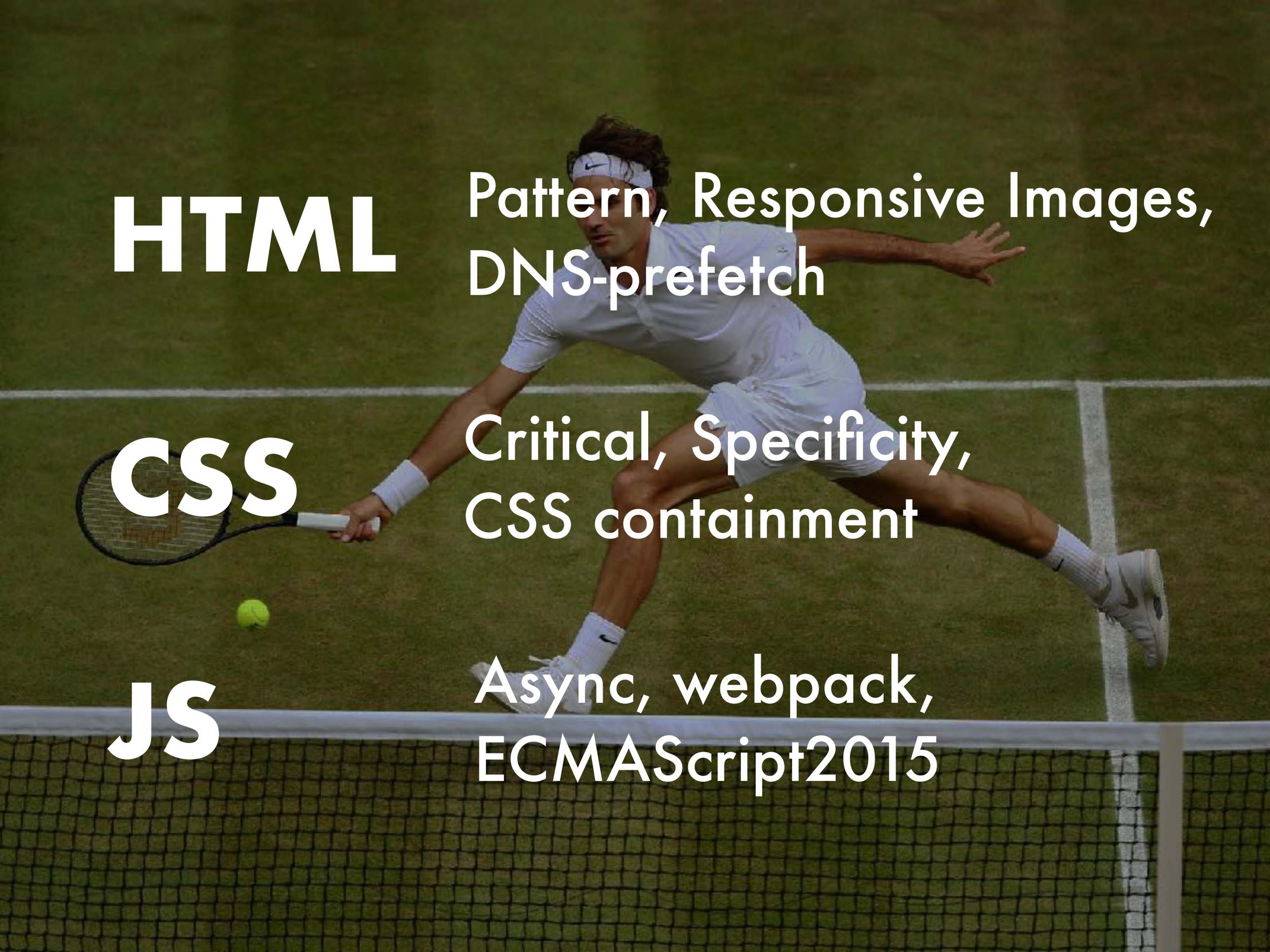
HTML

Pattern, Responsive Images, DNS-prefetch

CSS

Critical, Specificity, CSS containment

JS



HTML

Pattern, Responsive Images, DNS-prefetch

CSS

Critical, Specificity, CSS containment

JS

Async, webpack, ECMAScript2015

Back end

HTTP2

Can I use... Support tables ...

caniuse.com/#search=http2

HTTP/2 protocol - OTHER

Global 73.91% + 5.65% = 79.56%

Networking protocol for low-latency transport of content over the web. Originally started out from the SPDY protocol, now standardized as HTTP version 2.

Current aligned | Usage relative | Date relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			[2] 49					4.4	
			[2 4] 55			[2] 9.3		4.4.4	
[1 2] 11	[2] 14	[2] 51	[2 4] 56	[2 3] 10	[2 4] 43	[2] 10.2	all	[2] 53	[2 4] 56
	[2] 15	[2] 52	[2 4] 57	[2 3] 10.1	[2 4] 44				
		[2] 53	[2 4] 58	[2 3] TP	[2 4] 45				
		[2] 54	[2 4] 59						

Notes | Known issues (0) | Resources (6) | Feedback

See also support for the SPDY protocol, precurser of HTTP2

Multiplex

~~CSS sprite~~
~~Immagini inline~~
~~CSS e JS concatenati~~
~~Domain sharding~~

Asset "singoli"
Risorse organizzate "a sezione"
Attenzione ai domini multipli

HTTPS

Riassunto

- Mobile first, progressive enhancement;

Riassunto

- Mobile first, progressive enhancement;
- Immagini ottimizzate;

Riassunto

- Mobile first, progressive enhancement;
- Immagini ottimizzate;
- Codice P-U-L-I-T-O (occhio a framework etc);

Riassunto

- Mobile first, progressive enhancement;
- Immagini ottimizzate;
- Codice P-U-L-I-T-O (occhio a framework etc);
- HTTP2.

Un’ultima cosa:

ROLEX
2:19
澳新
2016 SHANGHAI ROL
ERKE
2016上海劳力士大师
ROLE

Cambio cappello o cambio dipartimento?

Come faccio con

Come faccio con il grafico?

Come faccio con il programmatore?

Come faccio con lo UX master?

Come faccio con il project manager?

Come faccio con l'editor?

Come faccio con il social [blabla]?

FedEx
Europe
PEUGEOT

Performance master

Grafico...

...Performance
budget!

Performance Budget Builder

codepen.io/bradfrost/pen/EPGVBp/

Performance Budget Builder

A PEN BY Brad Frost PRO

Fork | Settings | Change View

HTML

```
<h1>Let's Make A Performance Budget!</h1>

<div class="b">
  <div class="b-header">
    <h2 class="b-title" contenteditable>Template Name</h2>
    <em class="b-size">Budget:
```

CSS (SCSS)

```
* {
  box-sizing: border-box;
}

body {
  font-family: 'Open Sans', sans-serif;
  padding: 1.2em;
```

JS

```
//On input keyup
$('body').on('keyup', '.b-cat input', function(){
  var $this = $(this),
      val = parseInt($this.val());

  //Set widths of categories
```

Let's Make A Performance Budget!

Budget: 800KB

Actual: 700KB

Template Name

HTML	CSS	JS	Images	Fonts	Ads
50	100	200	200	100	50

ADD NEW TEMPLATE

Collections | Console | Assets | Comments | Keyboard | Share | Export | Embed

Editor...

...Piano editoriale!

Finisco

Coinvolgere tutti

Obiettivi condivisi

Prepararsi a perdere

AUSTRALIAN OPEN
MENS SINGLES
CHAMPIONSHIP
RUNNER UP
2009

Scendi in campo e
fai il tuo gioco.

Grazie
evian

@decarola
Modo
@madebymodo
evian