

# Entén i millora la velocitat del teu web WordPress

Joan Vega

#WCBCN



# parlant d'en Joan

... full stack developer

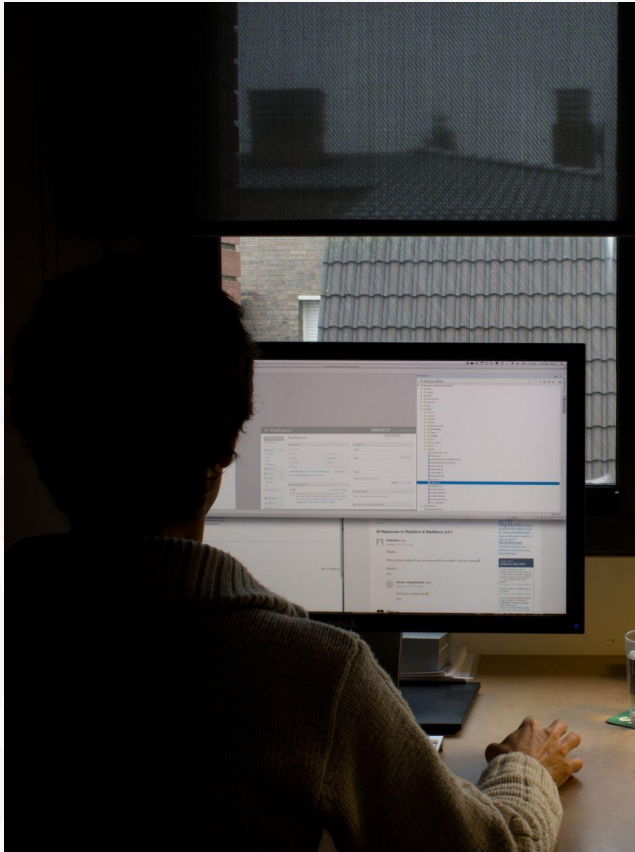
**2008** els primers WP

**2015** allotjant WP

 @sitamet

 @joanvega

 joan@wetopi.com



# Que la web carregui més ràpid !

- volem que els usuaris no marxin
- bona posició en cercadors

# Objectiu

- Entendre les diferents fases
- Saber on actuar

<https://lamevaweb.org>

# Etapes:

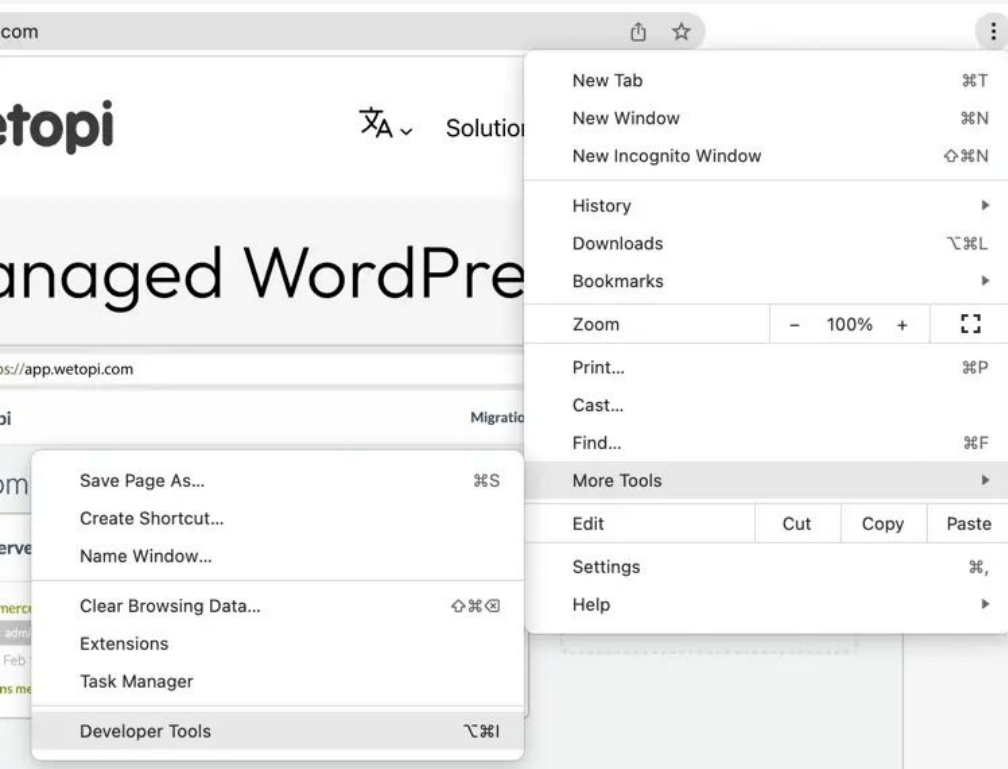
- A. Servir pàgina  
**dns, xarxa, servidor, ...**
- B. Pintar pàgina  
**parsing, estils, javascript, ...**

# A. Servir pàgina

On podem veure el que passa?

**... a les developer tools**

# Developer Tools



“ $\text{⌘}+\text{⌘}+\text{I}$ ” a Mac

o

“F12+Ctrl+Maj+I” a Win

# Developer Tools

The screenshot shows the Chrome Developer Tools interface with the Network tab selected. The 'Disable cache' checkbox is circled in red. The list of resources on the left includes various CSS files. The right-hand pane shows the 'Timing' sub-tab, also circled in red, which provides a detailed breakdown of the request's lifecycle.

Path	Timing
/wp-includes/css/dist/block-library/style.min.css	Queued at 0
/wp-content/plugins/contact-form-7/includes/css/styles.css	Started at 8.21 ms
/wp-content/plugins/sitepress-multilingual-cms/templates/language-switchers/legacy-dropdown/style.min.css	Resource Scheduling
/wp-content/plugins/sitepress-multilingual-cms/templates/language-switchers/menu-item/style.min.css	Queueing   8.21 ms
/wp-content/plugins/complianz-gdpr/assets/css/cookieblocker.min.css	Connection Start
/wp-content/themes/thefox/style.css	Stalled   2.01 ms
/wp-content/themes/thefox/style_end.css	DNS Lookup   174.19 ms
/wp-content/themes/thefox/media-queries_wide.css	Initial connection   103.79 ms
/wp-content/themes/thefox_child_theme/style.css	SSL   72.53 ms
/wp-content/themes/thefox/css/rgs.css	Request/Response
/wp-content/themes/thefox/css/animations.css	Request sent   78 µs
/wp-content/themes/thefox/includes/Flexslider/flexslider.css	Waiting for server response   293.06 ms
/wp-content/themes/thefox/css/font-awesome.css	Content Download   66.03 ms
/wp-content/themes/thefox/css/moon.css	
/wp-content/themes/thefox/css/elegant.css	
/wp-content/themes/thefox/includes/prettyPhoto/css/prettyPhoto.css	
/wp-content/themes/thefox/includes/zilla-likes/styles/zilla-likes.css	

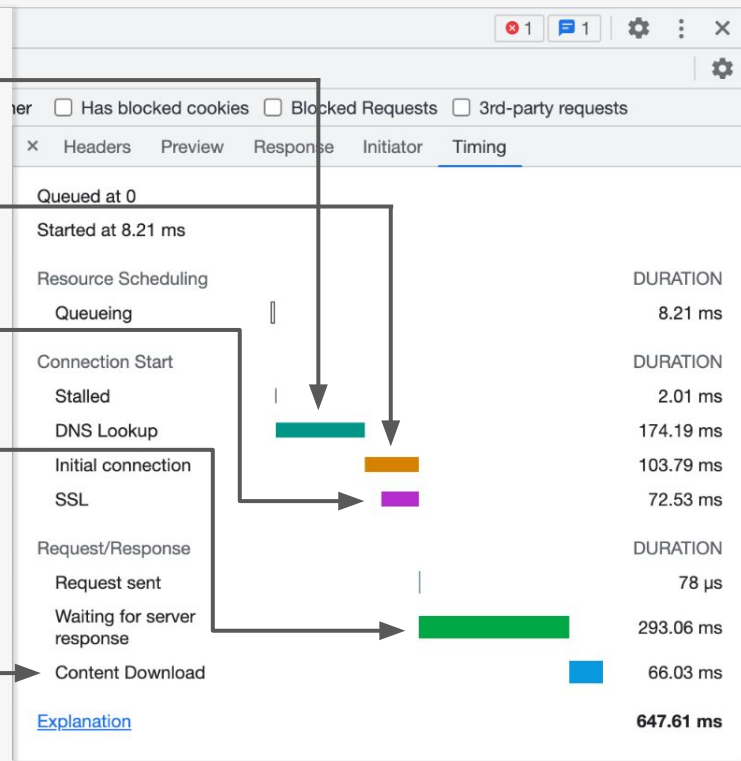
89 requests | 2.9 MB transferred | 6.4 MB resources | Finish: 2.03 s | DOMContentLoaded: 1.09 s | Load: 1.78 s

[Explanation](#) | 647.61 ms



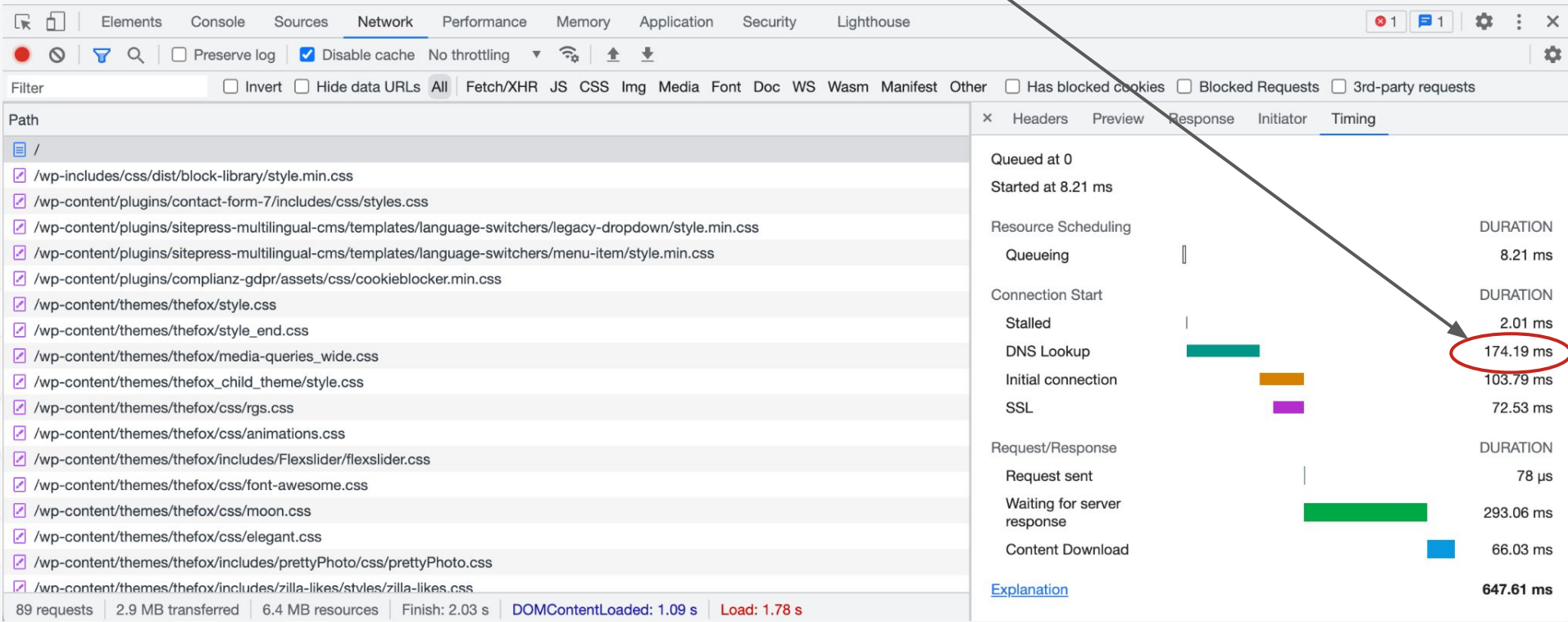
# A. Servir pàgina

- Descobrir servidor
- Obrir connexió
- Negociar connexió segura
- Server construeix pàgina
- Server envia contingut

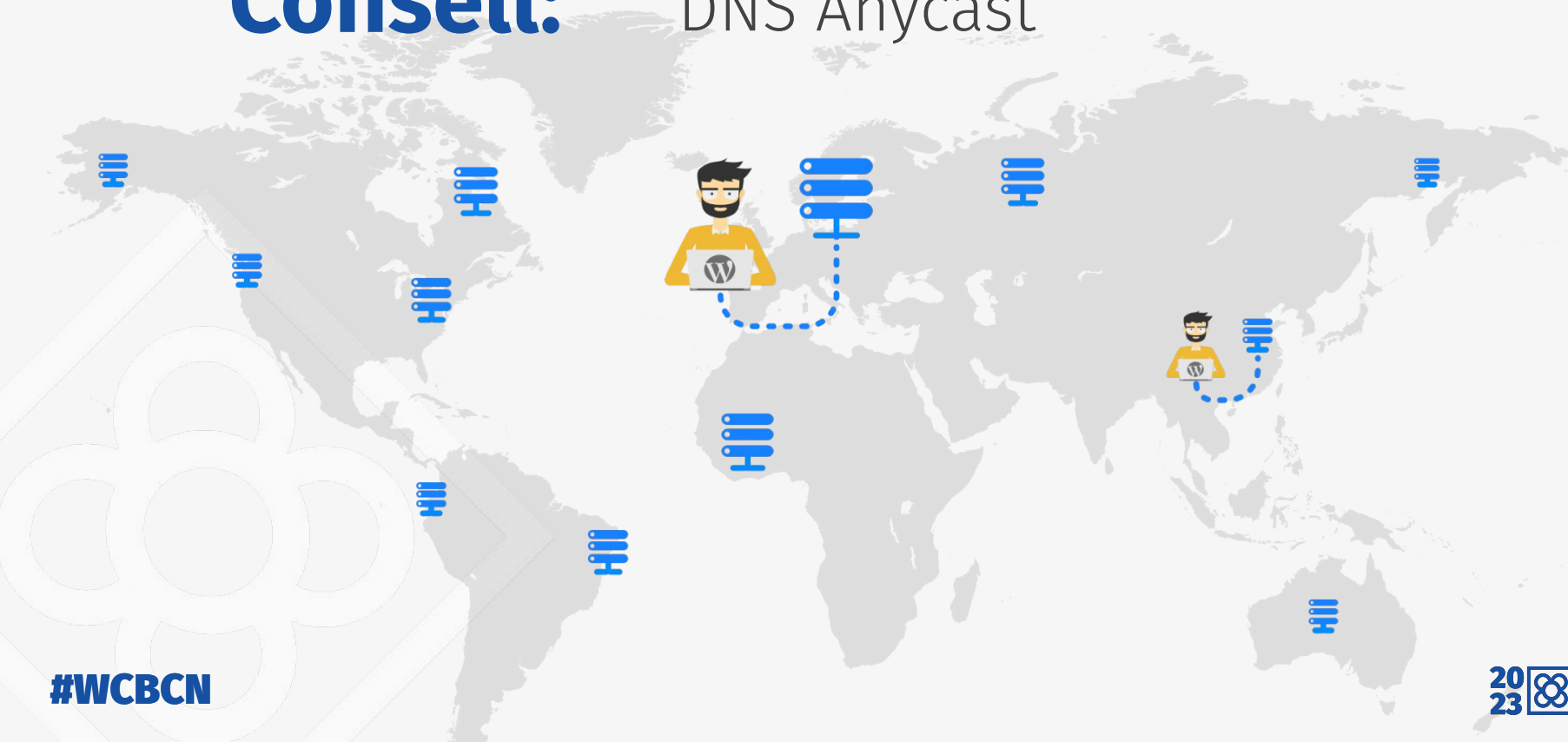


# Cas 1:

< 100ms



# Consell: DNS Anycast

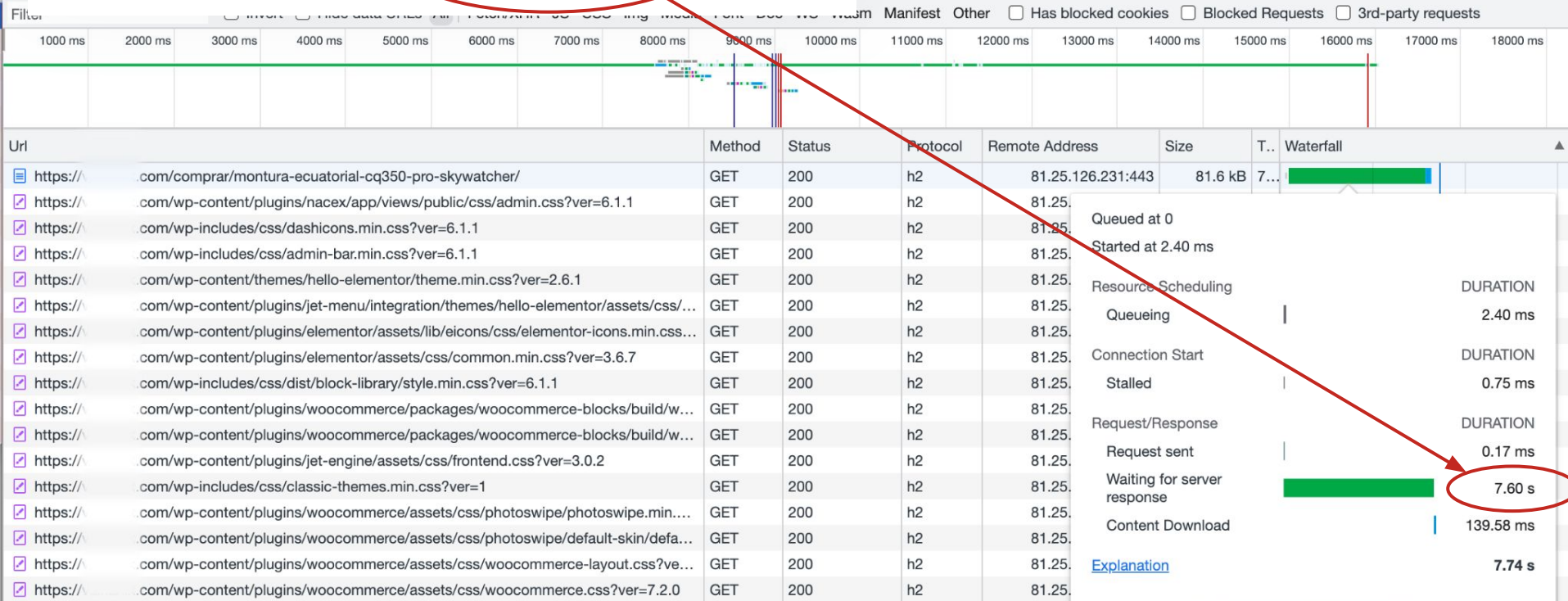


# Consell: DNS Anycast

- Cloudflare (free)
- Dondominio (free \*)
- Google Cloud DNS (\$0.4 zona/m)
- AWS Route53 (\$0.5 zona/m)

# Cas 2:

7.6 segons !!!



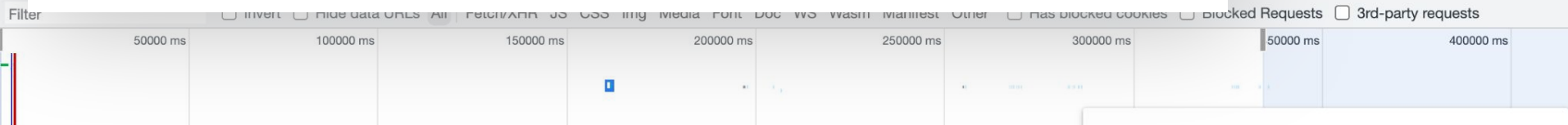
# Consell: Evita el sobrepès

- Plugins: els mínims (\*) Evita plugins que afectin pintat
- Tallafocs: fora de WP
- Redireccions: fora de WP
- Base de dades: motor Innodb
- Evita temes de propòsit general

# No puc aprimar-me !!!

- Millor servidor / hosting
- Query Monitor (plugin anàlisi)
- Cache

# Cas 2: 2.4 segons 🤔



Path	Method	Status	Protocol	Remote Address	Initiator
/comprar/montura-ecuatorial-cq350-pro-skywatcher/	GET	200	h2	79.137.114.210:443	Other
/wp-content/cache/perfmatters/valkanik1.c.wetopi.com/fonts/14167e3...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/nacex/app/views/public/...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/themes/hello-elementor/theme.min.css	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/jet-menu/integration/the...	GET	200	h2	79.137.114.210:443	(index)
/wp-includes/css/dist/block-library/style.min.css	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/woocommerce/package...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/woocommerce/package...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/jet-engine/assets/css/fro...	GET	200	h2	79.137.114.210:443	(index)
/wp-includes/css/classic-themes.min.css	GET	200	h2	79.137.114.210:443	(index)
/wp-content/plugins/cleantalk-spam-protect/css/cleantalk-public.min.css	GET	200	h2	79.137.114.210:443	(index)
/wp-content/plugins/woocommerce/assets/css/photoswipe/photoswip...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/plugins/woocommerce/assets/css/photoswipe/default-ski...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/woocommerce/assets/c...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/cache/min/1/wp-content/plugins/woocommerce/assets/c...	GET	200	h2	79.137.114.210:443	(index)
/wp-content/plugins/complianz-gdpr/assets/css/cookieblocker.min.css	GET	200	h2	79.137.114.210:443	(index)
/wp-content/themes/hello-elementor/style.min.css	GET	200	h2	79.137.114.210:443	(index)

Queued at 0  
Started at 3.97 ms

Resource Scheduling  
Queueing | 3.97 ms

Connection Start  
Stalled | 0.86 ms

Request/Response  
Request sent | 0.38 ms  
Waiting for server response | **2.41 s**  
Content Download | 32.67 ms

**Explanation** 2.44 s

Server Timing TIME  
During development, you can use [the Server Timing API](#) to add insights into the server side timing of this request.



# Cas 2: 2.37 generació de pàgina 🤔

Errores PHP (1)	GET https://...		
Consultas de base de datos			
Tiempos	Tiempo de generación de página	Pico de uso de memoria	Consultas de base de datos
Registros	2,3707s 0,8% de 300s de límite	120.683.344 bytes (115,1 MB) 45,0% de 256 MB del límite del servidor	0,0579s SELECT: 481 SHOW: 3 UPDATE: 7 INSERT: 2 Total: 493
Solicitud			
Bloques			
Plantilla			
Scripts (76)			
Estilos (63)	Llamadas API HTTP	Caché de objetos	Caché opcode
Ganchos y acciones	Ninguno	96,7% tasa de aciertos (56.421 aciertos, 1.924 fallos) <b>! El plugin de caché de objetos persistente no está en uso</b> Habla con tu proveedor de hosting para que active una extensión de caché de objetos como Redis o Memcached.	Opcode caché en uso: Zend OPcache
Idiomas			
Llamadas API HTTP			
Actualizaciones de datos transitorios (1)			
Comprobaciones de permisos			

# Cas 3:

The screenshot shows the Chrome DevTools Network tab. The top toolbar includes 'Elements', 'Console', 'Sources', 'Network', 'Performance', 'Memory', 'Application', 'Security', and 'Lighthouse'. The Network tab is active, displaying a list of requests and a detailed view of a selected resource.

**Network Tab Summary:**

- 70 requests | 6.7 MB transferred | 8.5 MB resources | Finish: 7.96 s | DOMContentLoaded: 663 ms | Load: 912 ms

Url	Method	Status	Protocol	Remote Address
https://.com/	GET	200	h2	54.38
https://.com/wp-includes/css/dist/block-library/style.min.css?ver=6.0.3	GET	200	h2	54.38
https://.com/wp-content/plugins/contact-form-7/includes/css/styles.css	GET	200	h2	54.38
https://.com/wp-content/themes/rimsa/style.css?ver=6.0.3	GET	200	h2	54.38
https://.com/wp-content/plugins/gdpr-cookie-compliance/dist/styles/g...	GET	200	h2	54.38
https://.com/wp-content/plugins/gdpr-cookie-compliance-addon/asse...	GET	200	h2	54.38
https://.com/wp-includes/js/jquery/jquery.min.js?ver=3.6.0	GET	200	h2	54.38
https://.com/wp-includes/js/jquery/jquery-migrate.min.js?ver=3.3.2	GET	200	h2	54.38
https://.com/wp-content/plugins/sitepress-multilingual-cms/dist/js/bro...	GET	200	h2	54.38


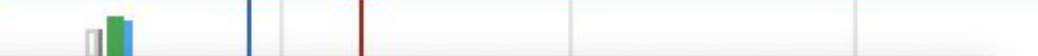

**Resource Details (Circled in Red):**

- Queued at 0
- Started at 3.51 ms
- Resource Scheduling: 3.51 ms (Queueing)
- Connection Start: 0.61 ms (Stalled)
- Request/Response: 101.22 ms (Waiting for server response)
- Content Download: 436.14 ms
- Explanation: 541.69 ms**
- Server Timing: TIME

During development, you can use [the Server Timing API](#) to add insights into the server-side timing of this request.

# Consell: Content download

Servidor web amb compressió:

Size	Time	Waterfall
19.8 kB	139 ms	
2.3 kB	36 ms	
1.7 kB	35 ms	

19.8 kB transferred over network, resource size: 108 kB

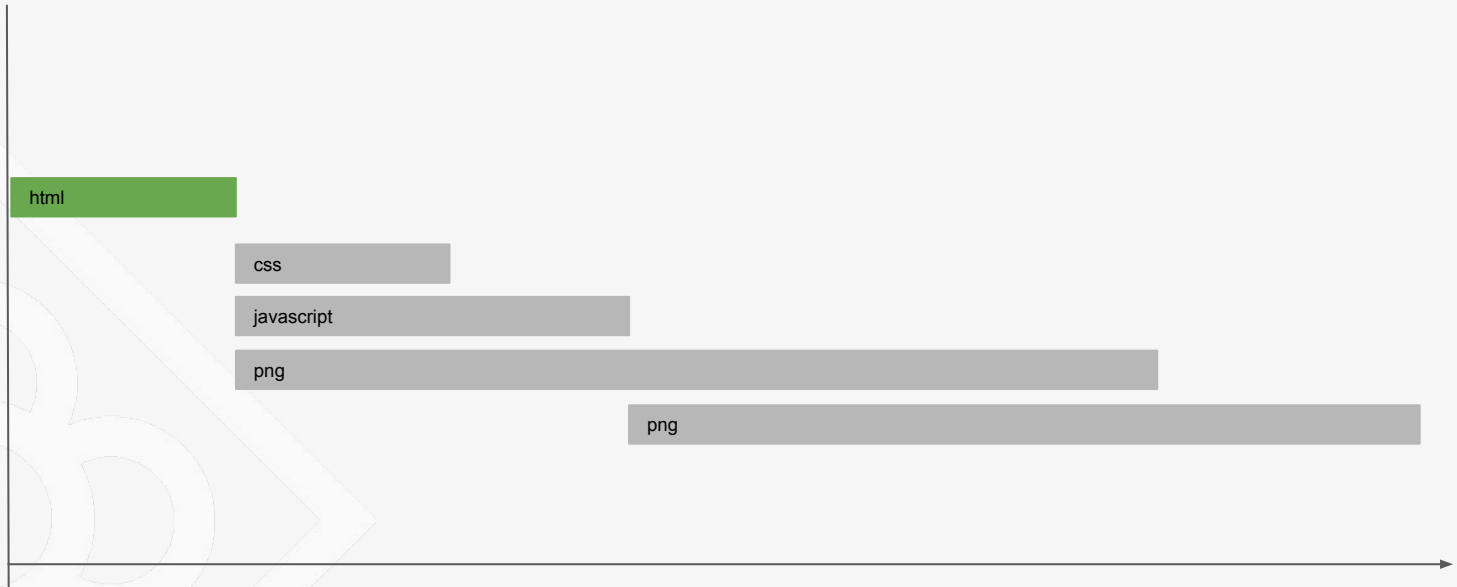
# Consell: Content download

The screenshot shows a browser's developer tools network tab. The left pane lists several resources, with the first one selected: `/wp-includes/blocks/navigation/style...`. The right pane shows the details for this request, including the request URL, method, status code, remote address, and referrer policy. The response headers section is expanded, showing `content-encoding: br` highlighted in blue.

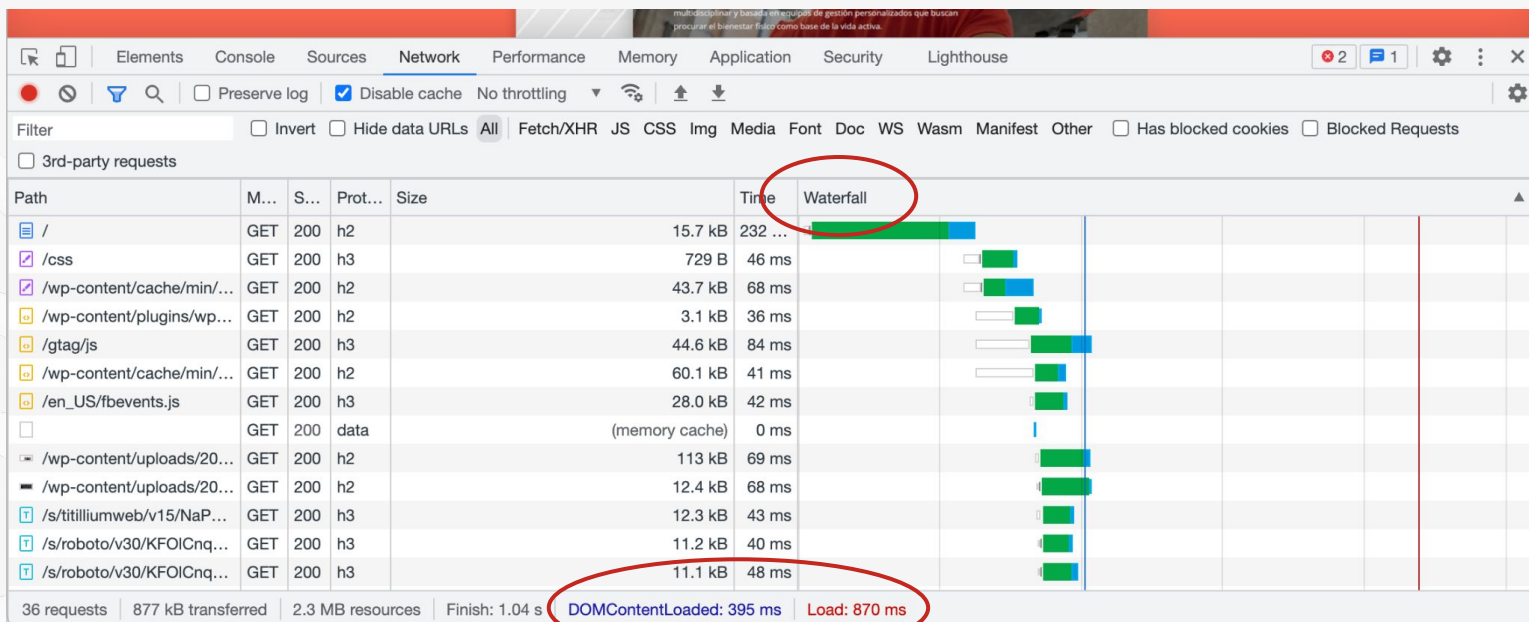
Path	Headers	Preview	Response	Initiator	Timing	Cookie
/						
/wp-includes/blocks/navigation/style...	<b>General</b> Request URL: <code>https://wetopi.com/</code> Request Method: <code>GET</code> Status Code: <code>200</code> Remote Address: <code>79.137.114.201:443</code> Referrer Policy: <code>strict-origin-when-cross-origin</code>					
/wp-includes/blocks/social-links/style...						
/wp-content/themes/twentytwentytwo/...						
/wp-content/themes/twentytwentytwo-...						
/wp-content/plugins/gdpr-cookie-com...						
/wp-includes/blocks/navigation/view.m...	<b>Response Headers</b> <b>content-encoding: br</b> content-type: <code>text/html; charset=UTF-8</code>					
/wp-includes/blocks/navigation/view-...						
/wp-includes/js/jquery/jquery.min.js						
/npm/is-cookie@2/src/is.cookie.min.js						

`content-encoding: br (brotli) o gzip`

# B. Pintat pàgina



# B. Pintat pàgina



# Web Vitals

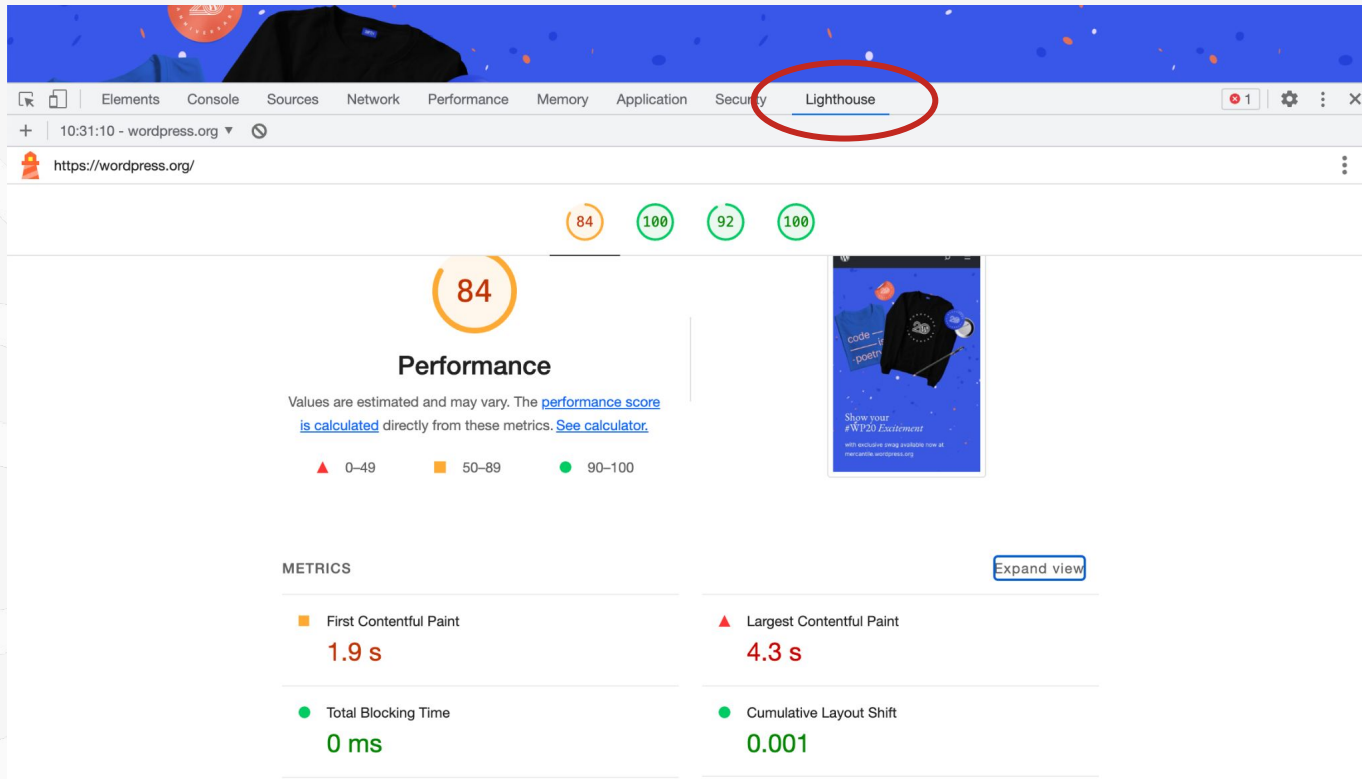
... una iniciativa de Google que proposa aquells indicadors de qualitat considerats essencials per oferir una bona experiència d'usuari.

# Web Vitals ... no perdonen

Ho necessites TOT!  
bon hosting i bona implementació.



# Web Vitals ... on?



The screenshot shows the Lighthouse audit interface in a browser. The 'Lighthouse' tab is highlighted with a red circle. The audit is for 'wordpress.org'. The overall Performance score is 84, with other metrics at 100, 92, and 100. The Performance section is expanded, showing the following metrics:

Metric	Value
First Contentful Paint	1.9 s
Largest Contentful Paint	4.3 s
Total Blocking Time	0 ms
Cumulative Layout Shift	0.001

https://wetopi.com/

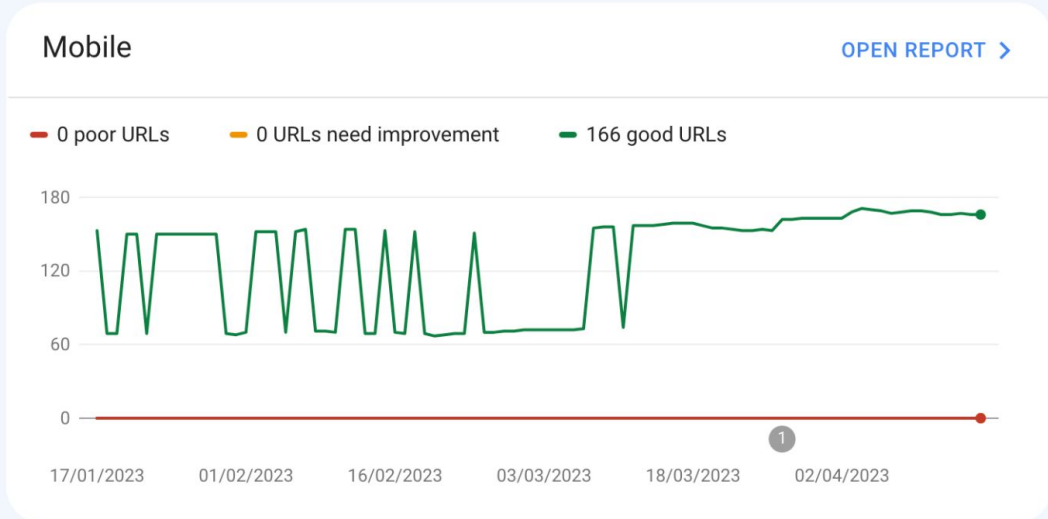
- Overview
- URL inspection

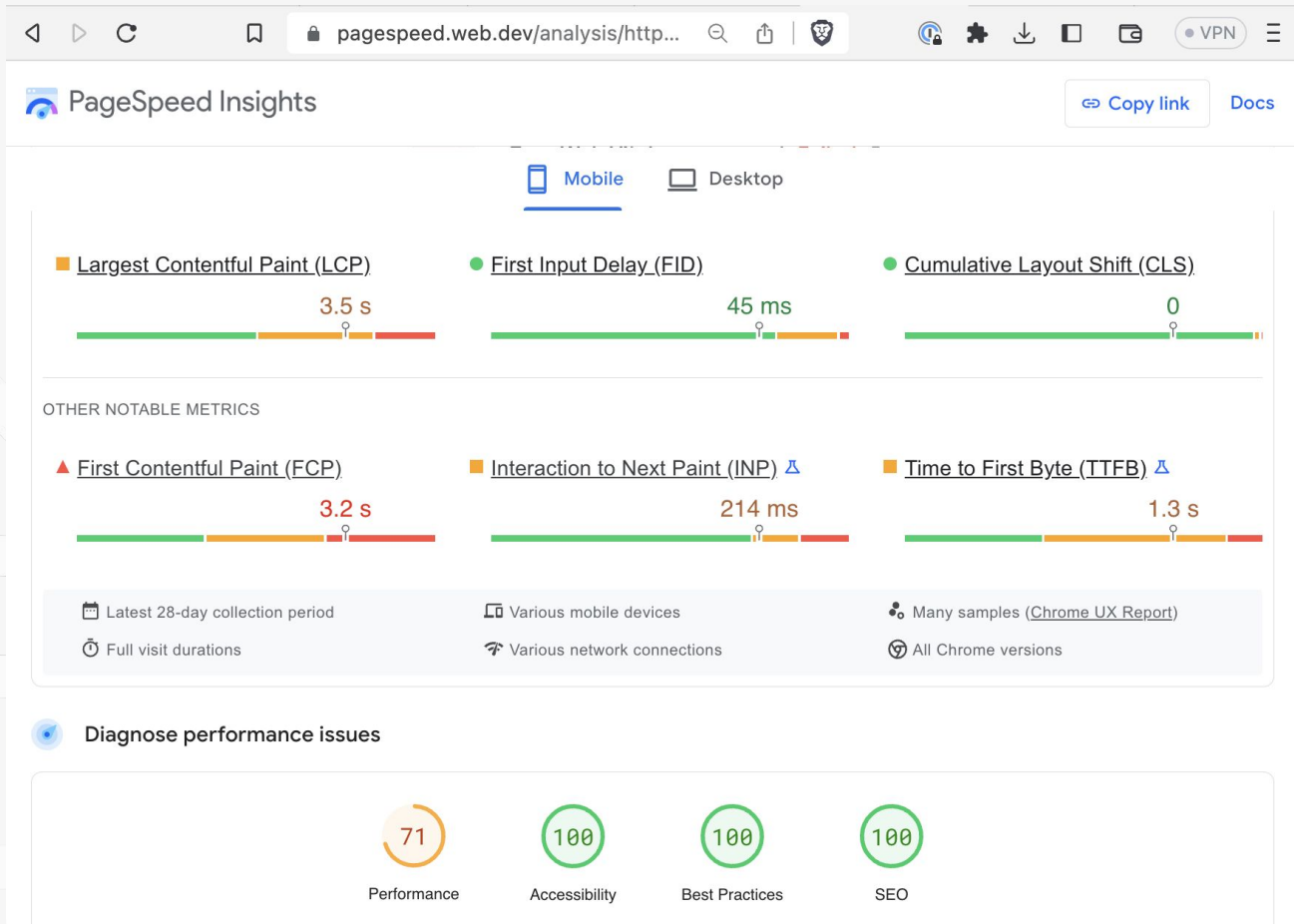
- Performance
- Search results
- Discover

- Indexing
  - Pages
  - Video pages
  - Sitemaps
  - Removals

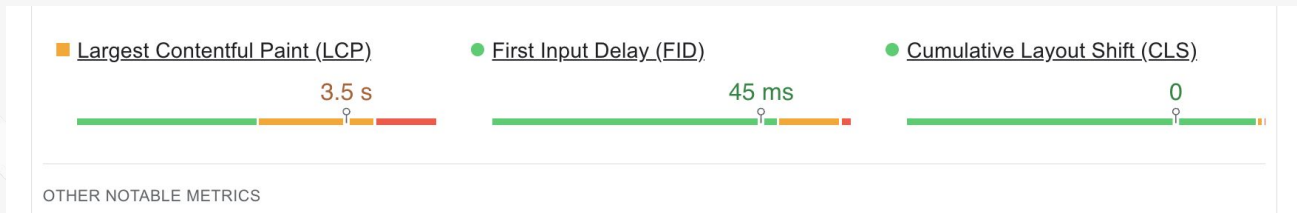
### Core web vitals

Source: Chrome UX report ? Last updated: 16/04/2023





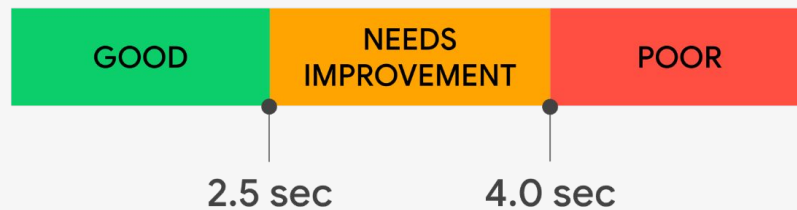
# Web Vitals ... les 3 CORE



# Core Web Vitals:

## LCP

Largest Contentful Paint



# Core Web Vitals:

LCP

The image displays six mobile app screenshots arranged in a 2x3 grid. The left column shows FCP (First Contentful Paint) performance, and the right column shows LCP (Largest Contentful Paint) performance. Each screenshot features a news article with a highlighted headline. The FCP highlights are in green dashed boxes, and the LCP highlights are in red dashed boxes. The articles are: Tesla brings back free unlimited supercharging for the Model S and X; Ethical fashion is on the rise; Apple Card can't be used to buy crypto; StockX was hacked, exposing millions of customers' data; E3's organizer apologizes after revealing information for thousands of journalists; Elon Musk says The Boring Company will launch in China this month; Why AWS gains big storage efficiencies with E8 acquisition; Digital identity startup Yoti raises additional £8M at a valuation of £82M; SpaceX details launch and landing plans for Starship and Super Heavy in new document.

Article	FCP (First Contentful Paint)	LCP (Largest Contentful Paint)
Tesla brings back free unlimited supercharging for the Model S and X	Headline	Image of Tesla cars
Ethical fashion is on the rise	Headline	Image of people
Apple Card can't be used to buy crypto	Headline	Image of Apple Card
StockX was hacked, exposing millions of customers' data	Headline	Image of a large green 'X'
E3's organizer apologizes after revealing information for thousands of journalists	Headline	Image of a person
Elon Musk says The Boring Company will launch in China this month	Headline	Image of a person
Why AWS gains big storage efficiencies with E8 acquisition	Headline	Image of a person
Digital identity startup Yoti raises additional £8M at a valuation of £82M	Headline	Image of a person
SpaceX details launch and landing plans for Starship and Super Heavy in new document	Headline	Image of a person

FCP

LCP

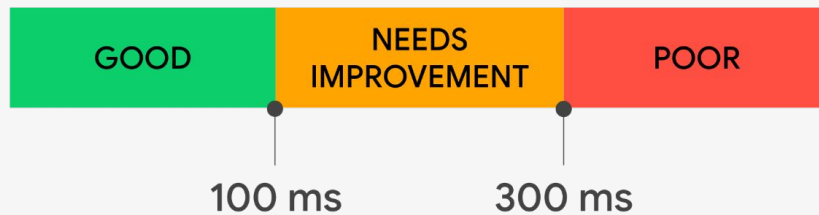
# Consell per LCP

- Fes bé el punt **A. Servir pàgina**
- Optimitza la imatge pral.

# Core Web Vitals:

# FID

First Input Delay





# Consell per FID

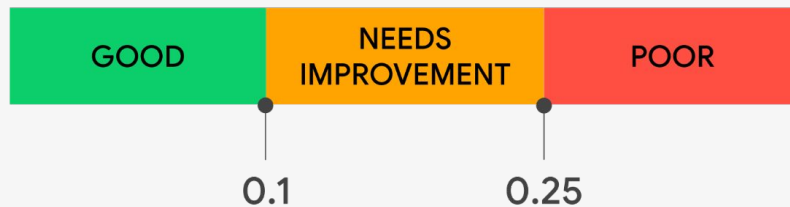
- `<script defer ... javascript`
- `<script delete ... javascript`



# Core Web Vitals:

# CLS

Cumulative Layout Shift



# Core Web Vitals: CLS



TIP:

with  
+  
height

per anticipar  
l'aspect ratio



#WCBCN

# Gràcies!!!!

Preguntes?

**#WCBCN**

**#WCBCN**

