### Matt Hobbs Head of Frontend, Lead Developer Government Digital Service

@TheRealNooshu



# How to Read a WebPageTest waterfal chart

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# Assumed knowledge



ME TEST RESULT TEST HISTORY FORUMS DOCUMENTATION ABOUT

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#### NUOSHU

{ KNEELING ON THE SHOULDERS OF GIANTS }

Portfolio

Lab

011001

Fuel

Contact

Home

About

### https://t.ly/Ys4v

#### **#How to run a WebPageTest test**

Published: Dec 31, 2020 Tagged: webperf, ramblings, webpagetest. Read time: 64 mins

#### Table of contents

Simple testing tab.

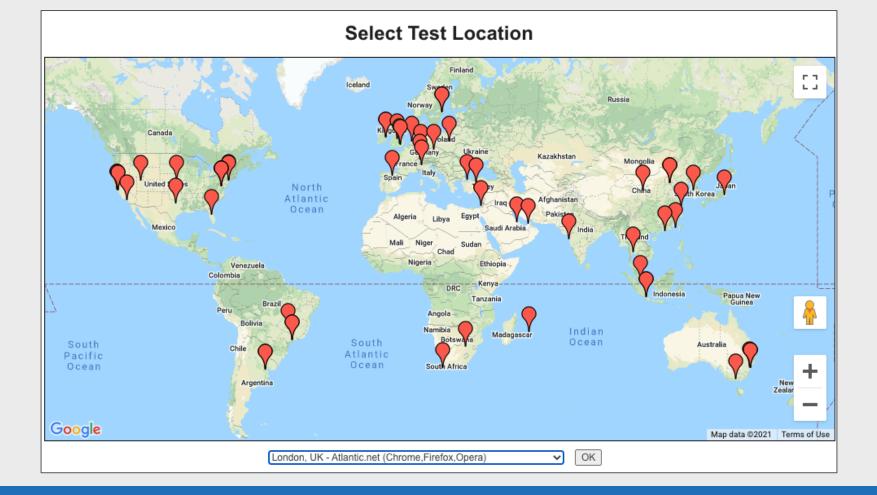
# What is WebPageTest?

- Created by Pat Meenan in 2008 at AOL
- IE plugin called Pagetest
- Acquired by Catchpoint in 2020

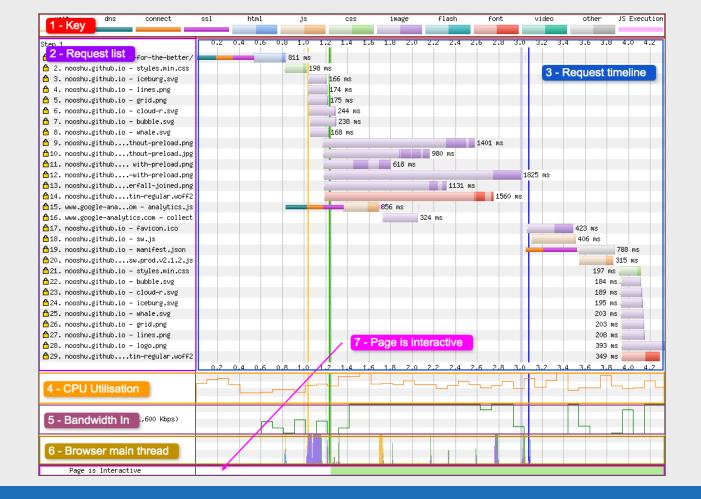


#### Pats basement









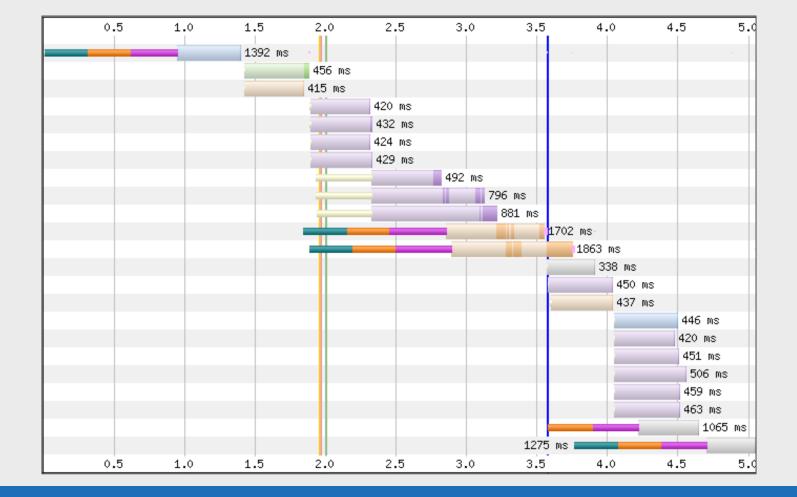


wait	dns	connect	ssl	html	js	CSS	image	flash	font	video	other	JS Execution

# 2: Request List

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	з.	nooshu.github.io – app.js
	4.	nooshu.github.io – iceburg.svg
8	5.	nooshu.github.io – lines.png
6	6.	nooshu.github.io – grid.png
	7.	nooshu.github.io – cloud–r.svg
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		nooshu.github.io – logo.png
		nooshu.github.io – whale.svg
		nooshu.githubntions-loader.svg
		nooshu.github.io – manifest.json
<b>  ≜</b> ∶	23.	c.go-mpulse.net – config.json

## **3: Request Timeline**



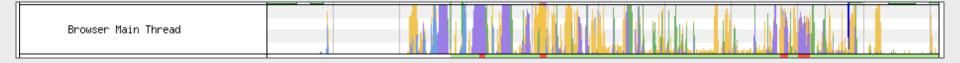
## 4: CPU Utilisation

CPU Utilization	

## 5: Bandwidth In

Bandwidth In (0 - 1,600 Kbps)			L		

## 6: Browser Main Thread



Orange - Script parsing, evaluation and execution

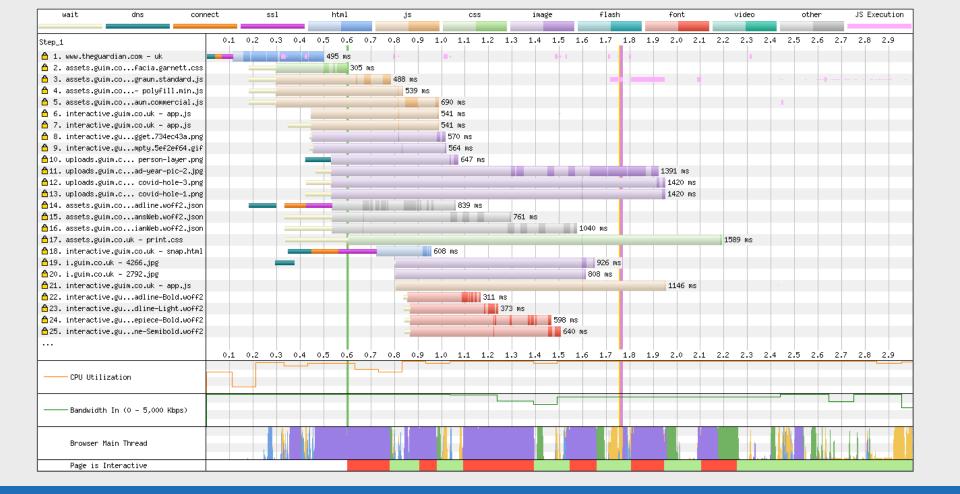
- Purple Layout
- Green Painting
- Blue HTML parsing

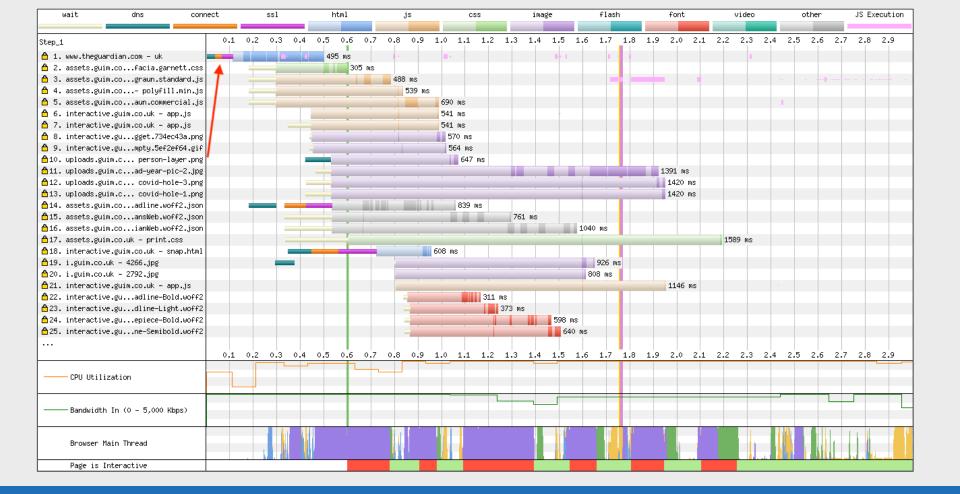
■Grey - Main thread time used for task processing not accounted for in other categories

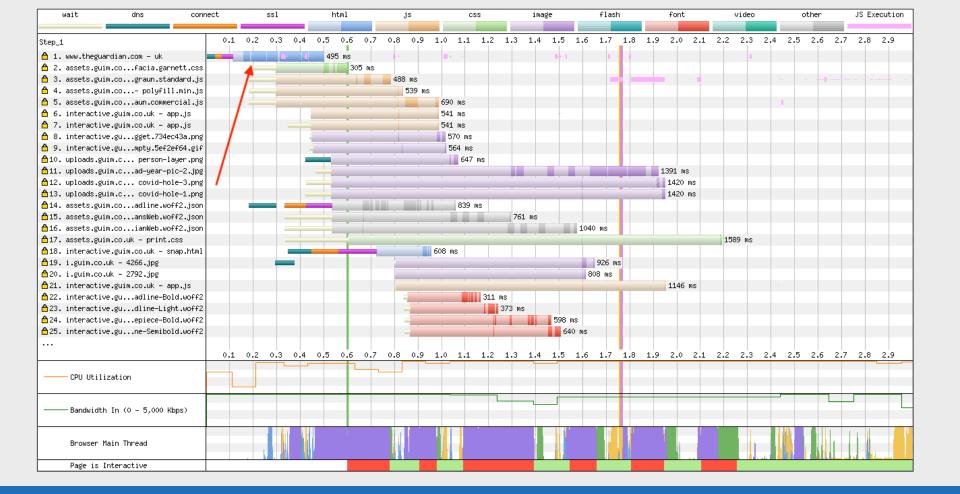
## 7: Page is Interactive

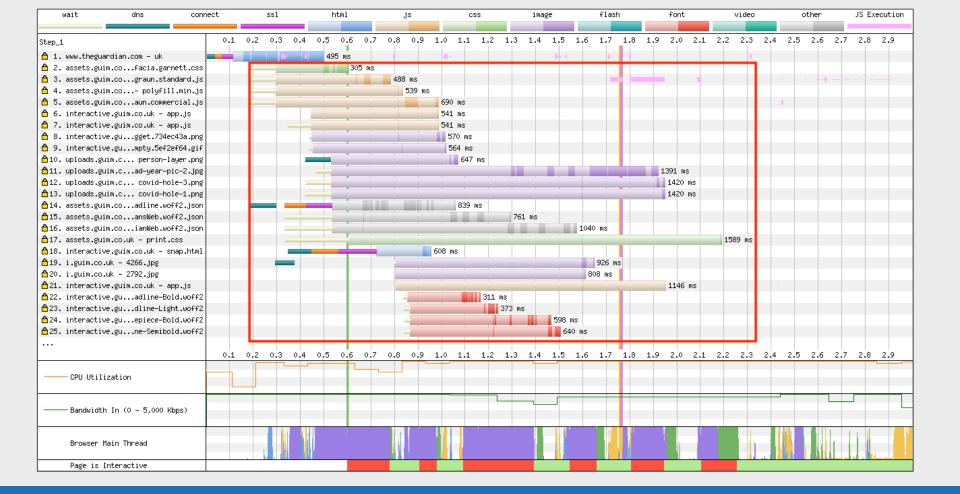
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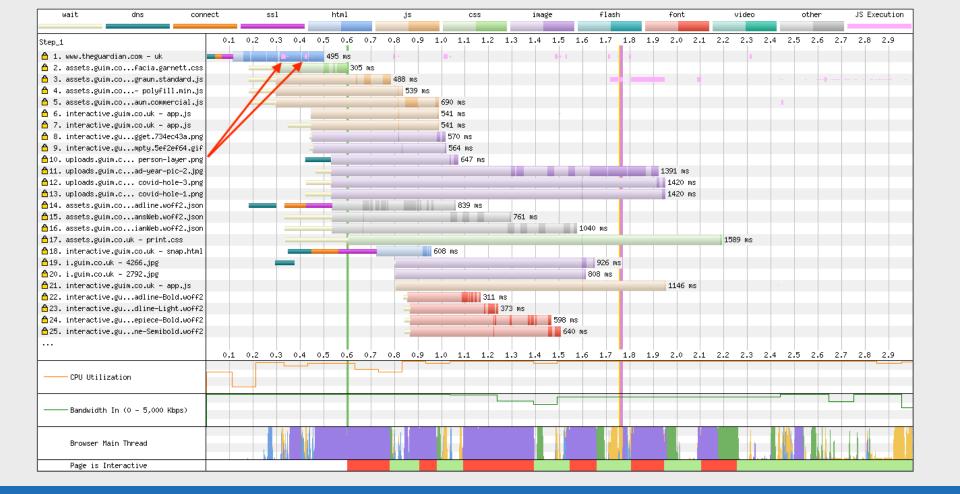
## All together:

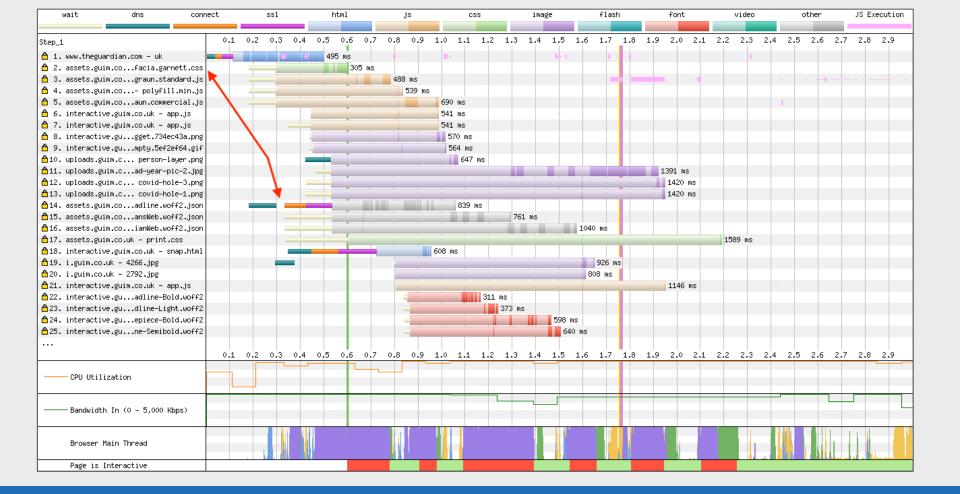


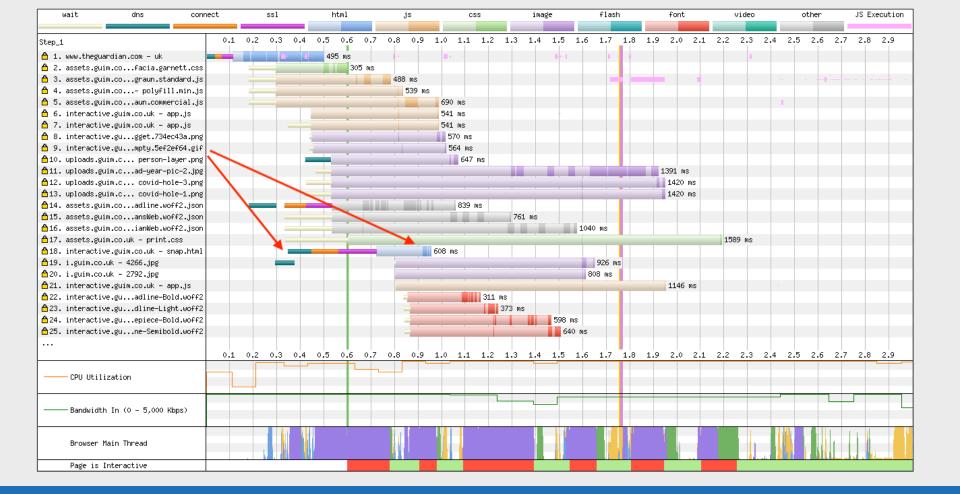


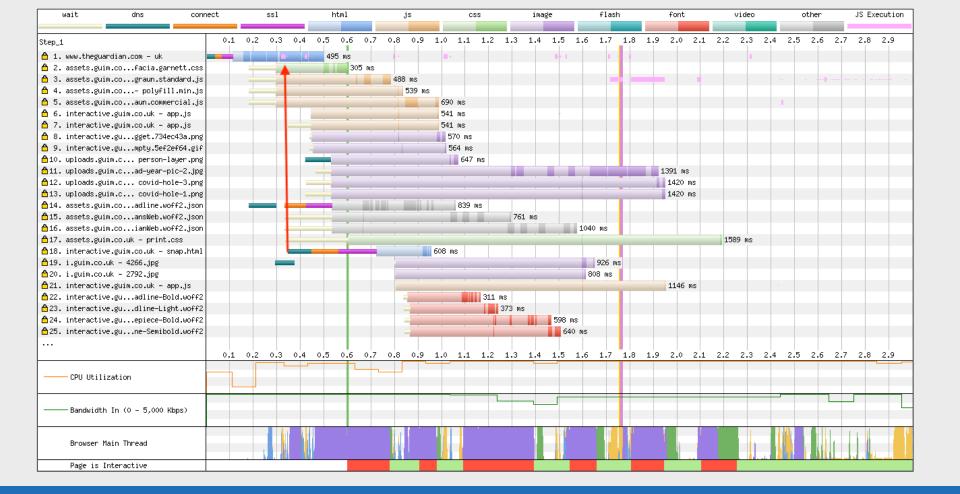


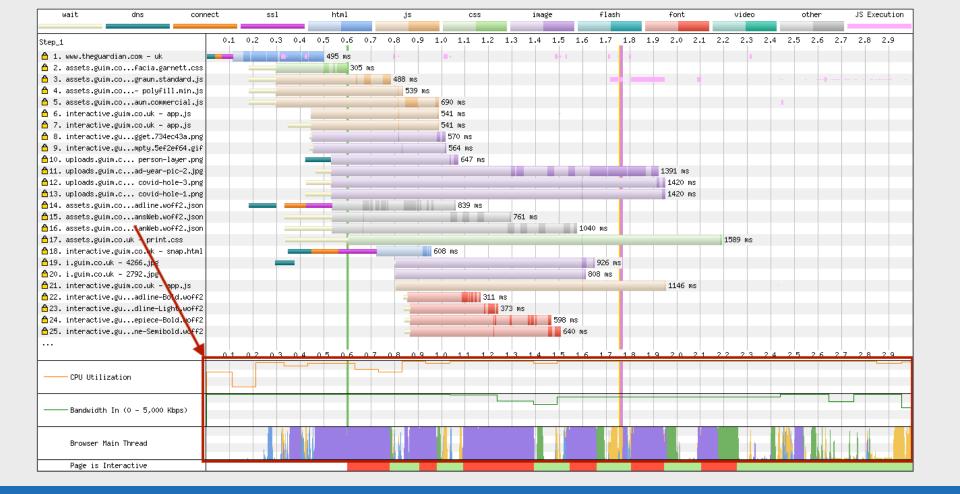












## **Vertical Lines**

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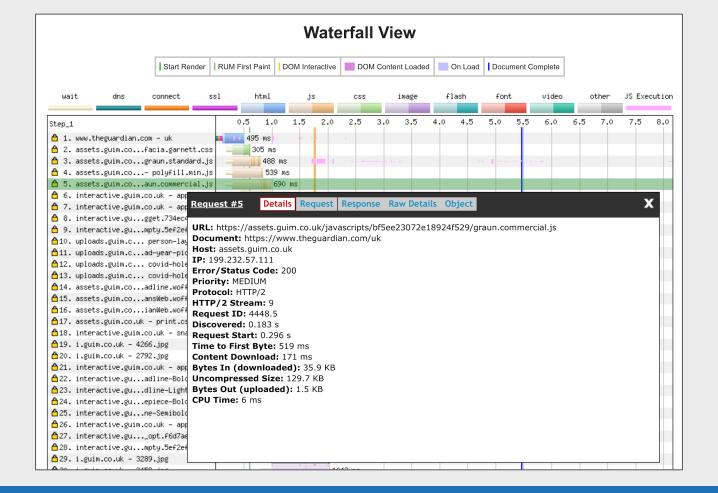
 Start Render
 RUM First Paint
 DOM Interactive
 DOM Content Loaded
 On Load
 Document Complete

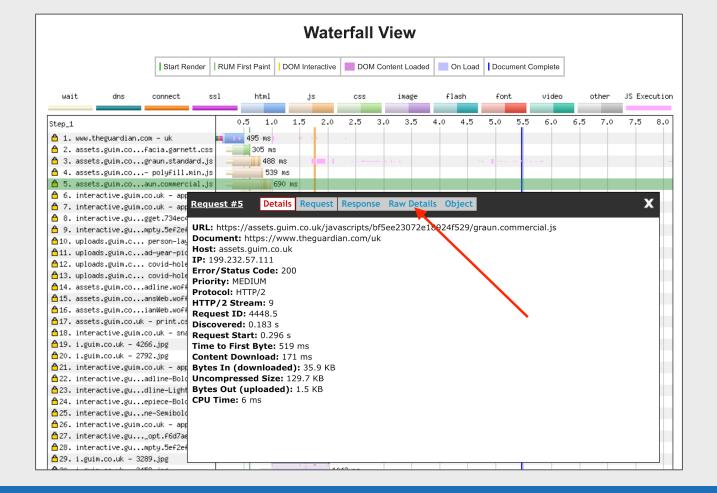
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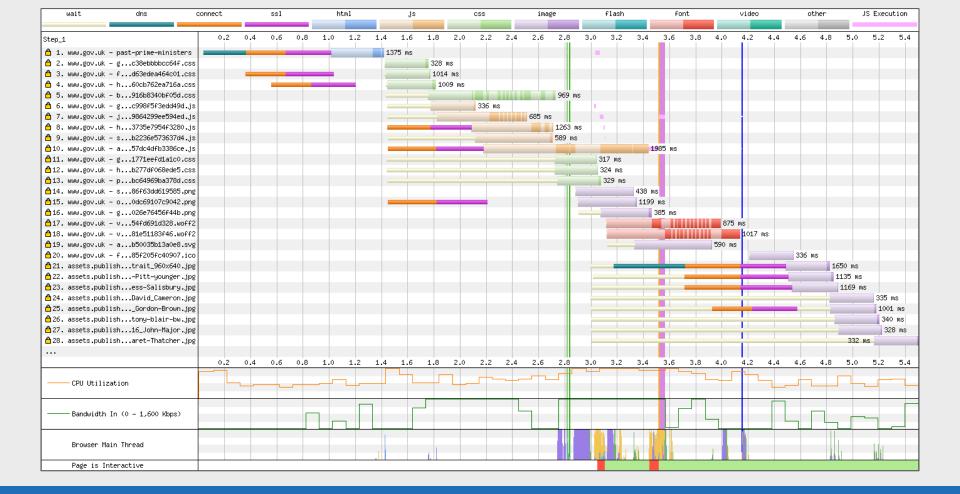
# **Request Details**

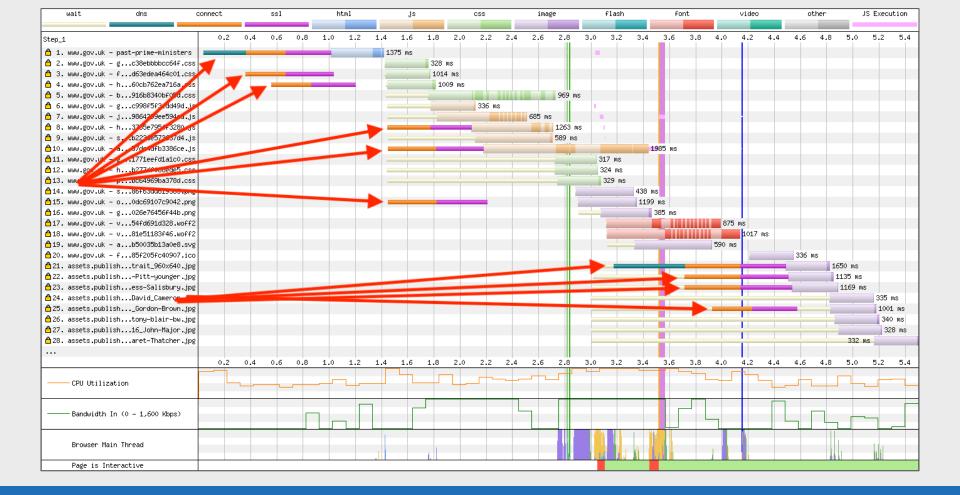


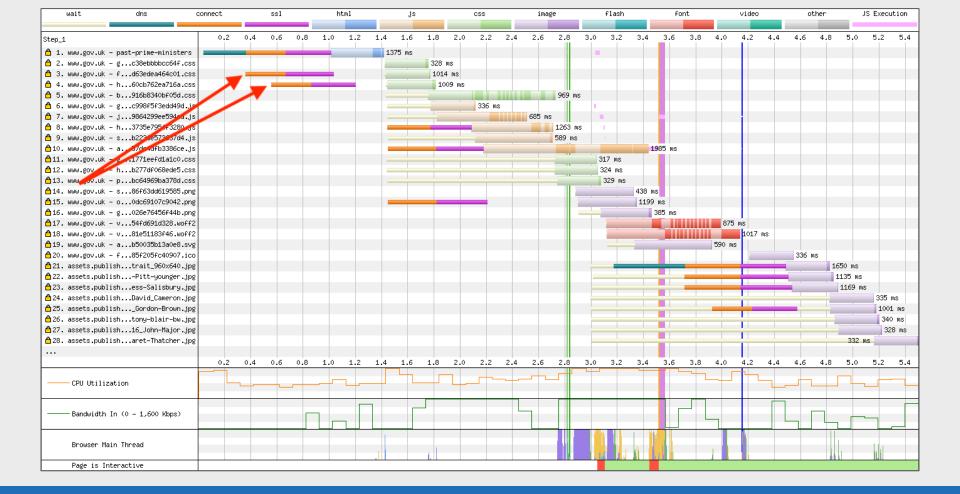


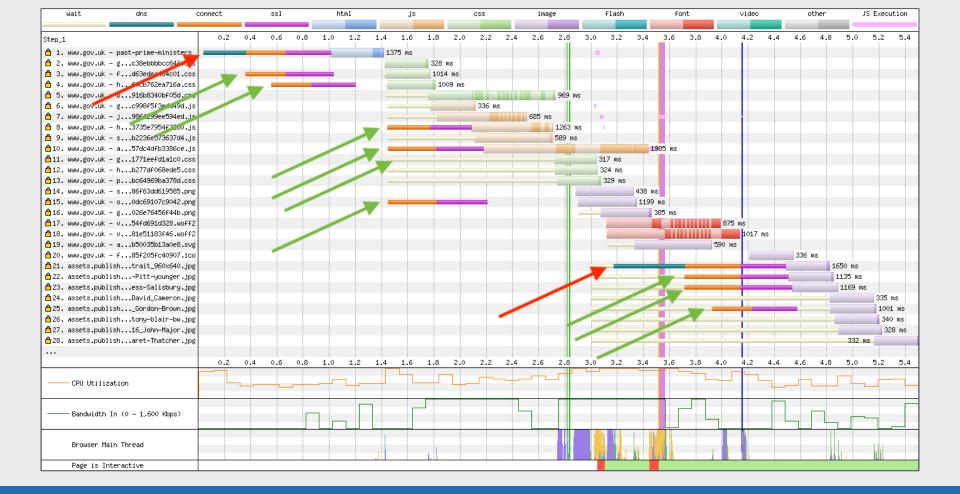
# **Beyond the basics**

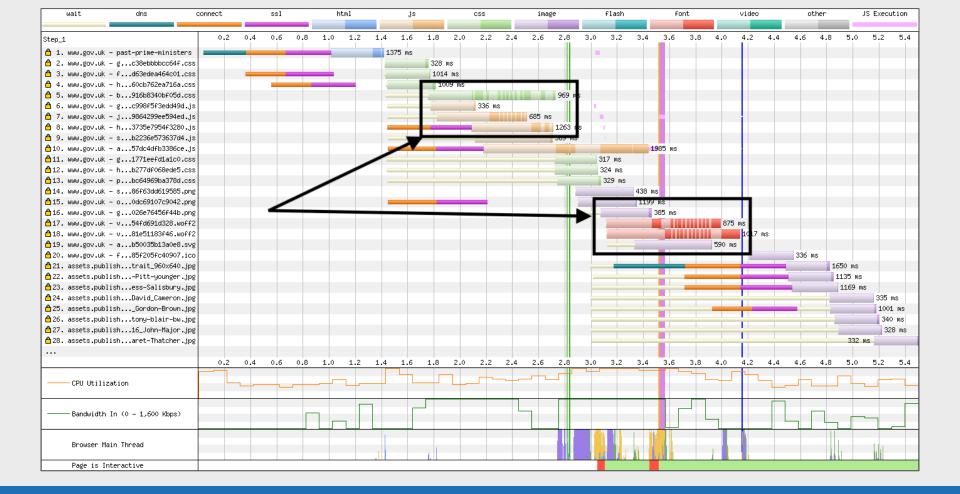
#### HTTP/1.1 vs HTTP/2

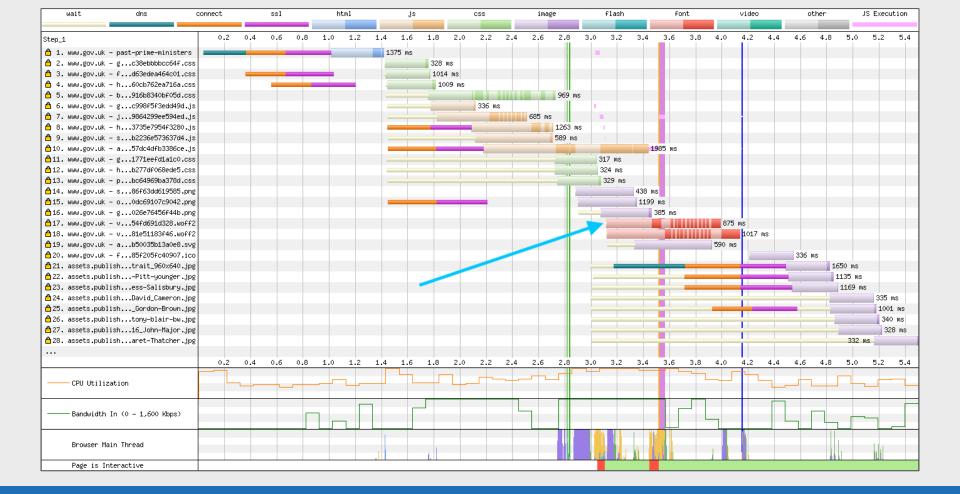


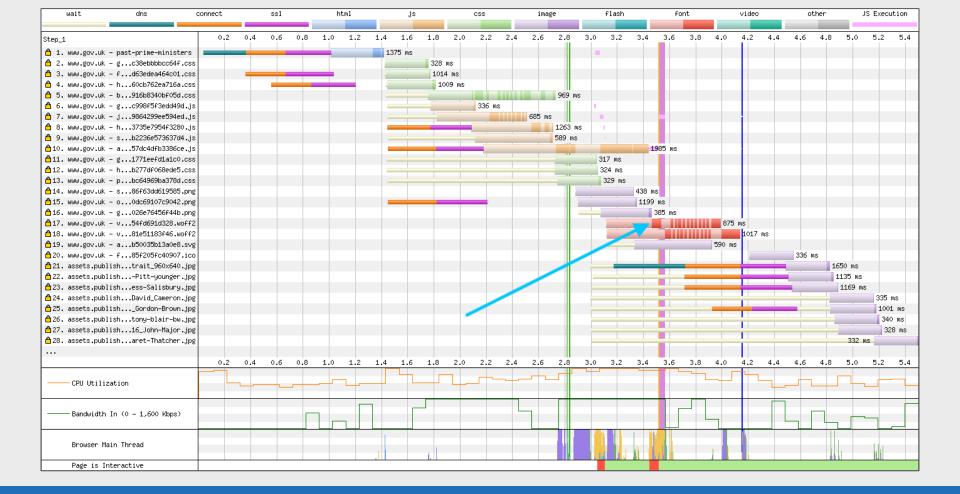


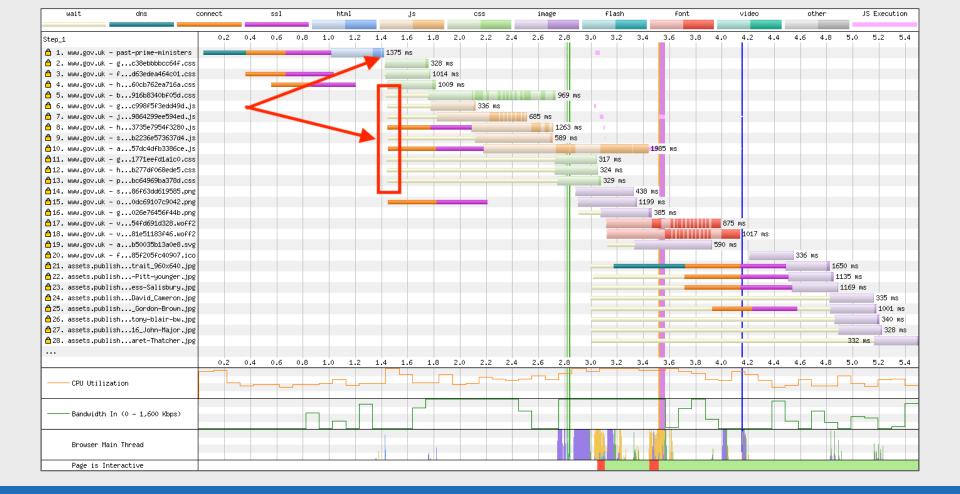


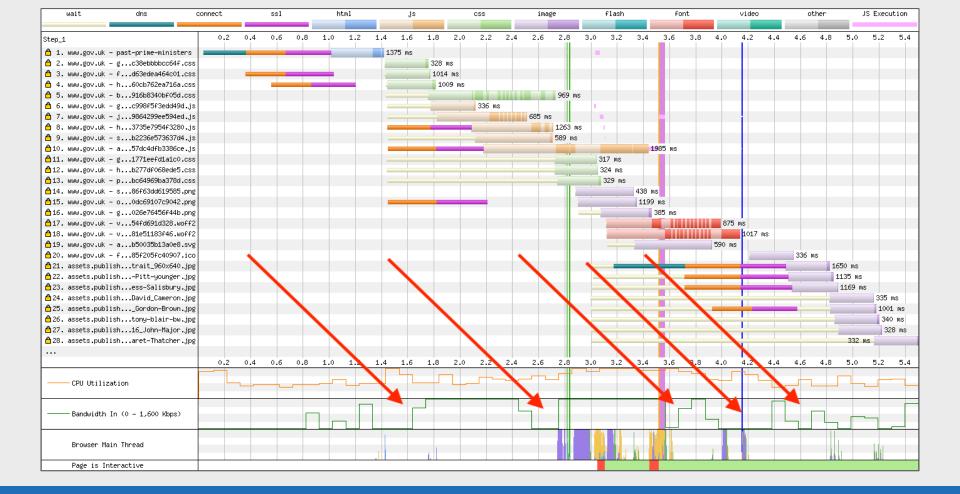






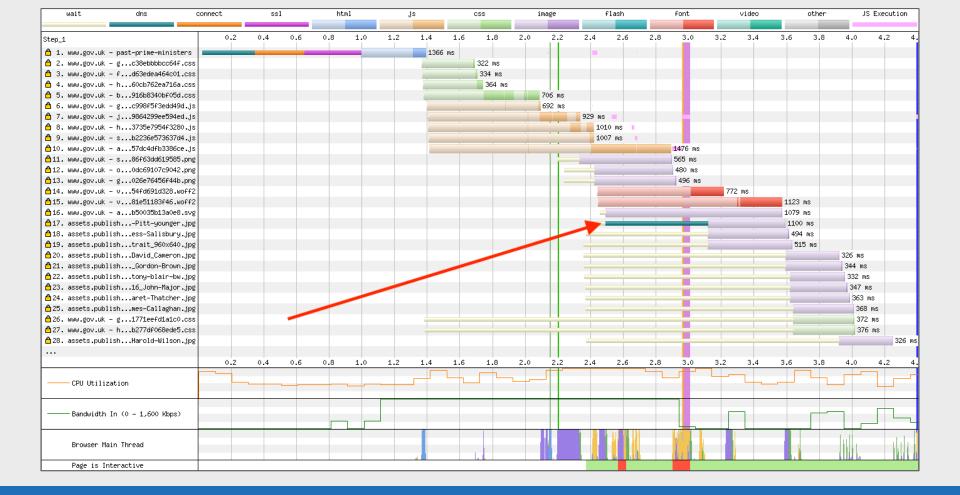


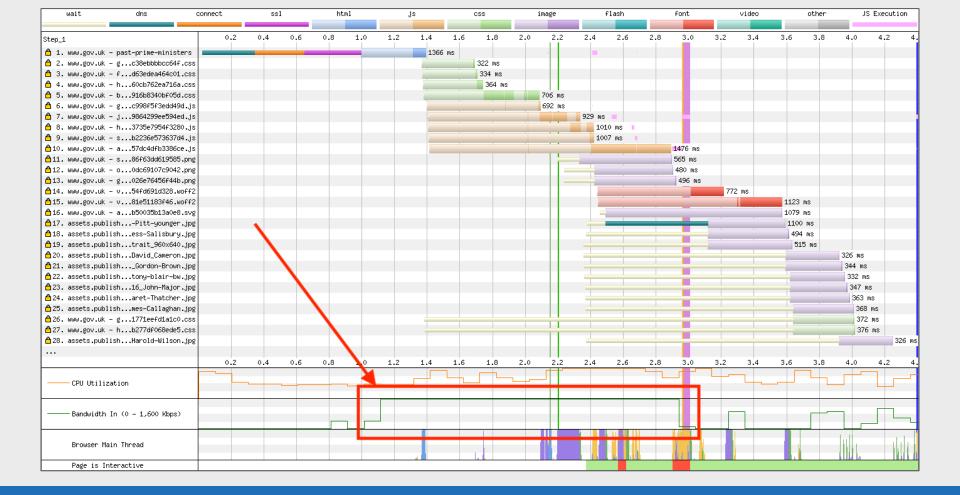




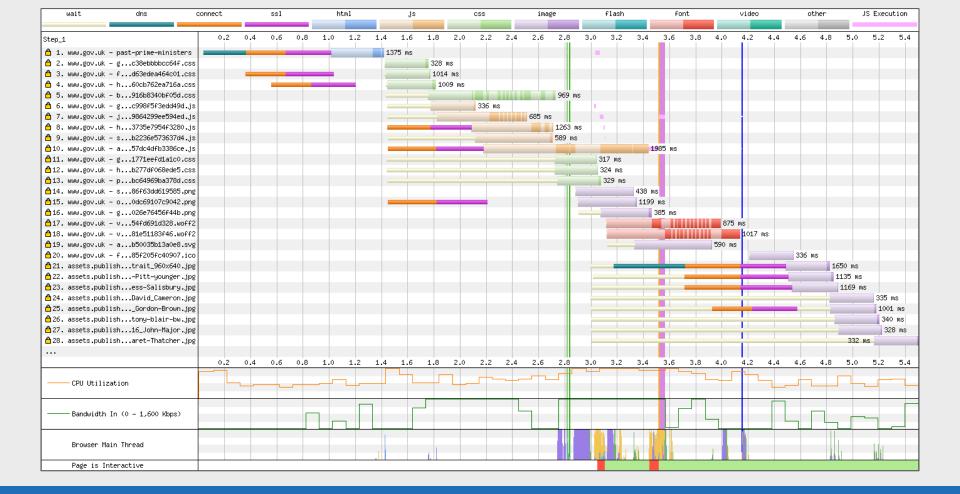
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## **Chunk Data**

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🛱 30. assets.publishHarold-Wils {		
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#### **Error/Status Codes**

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👌 4. www.thetimes.c	min-854b672e27.js	5	676 m	ns							10 B							
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👌 6. www.thetimes.c	11-f4ad00a748.png	8		1 ms														
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122. s.amazon-adsy	stem.com - dcm																208	i ms
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≜126. pm.w55c.net -	ping_match.gif														976	ms (302)		
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≜128. pr-bh.ybp.yah	50y6VRaOQtb04XJ1g	8														228 r	is (302)	
≜129. pm.w55c.net -	ping_match.gif															211	ns (302)	
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👌131. id.rlcdn.com																	64 ms 🔲	and the second s
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🖰 122. s.amazon-adsystem.com – dcm								208 ms
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124. token.rubiconproject.com - token								252 ms (302) 🔤
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8. www.thetimes.cck-ee1e0ce4ed.	png		380 ms																
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	ment: https://www.the	etimes.co.uk	🗾</td <td></td>										
A 7. www.thetimes.c640x720_dig Host	: www.thetimes.co.uk												
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A 9 www.thetimes.c _75152f17af	r/Status Code: 200												
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20. www.thetimes.cfaf726a3.cr Cont	ent Download: 611 m	S		pubads.g.dou			5330388		itassessor.	com/scn	1015/0813140696403561888941	04912C0D19e041D10e66751	29011169522021
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24. tags.tigcdn.com - utag.562.	<b>Time:</b> 363 ms			eb2.3lift.co				Code: 200					
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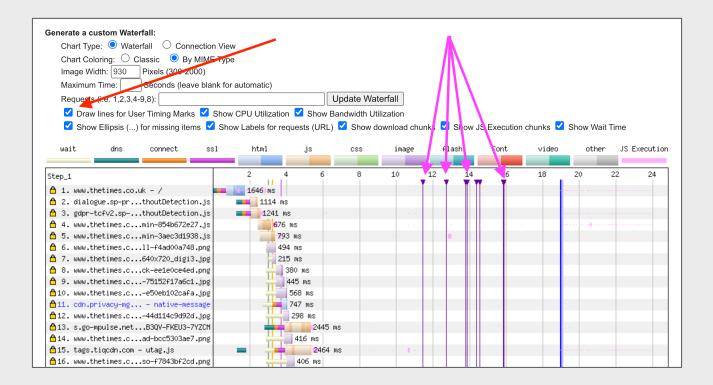
# **JavaScript Execution**

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 👌 3. edition.cnn	.comeb48bd.bundle	.js		-		293 ms														-			• • •
			0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
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# **User Timing Marks**

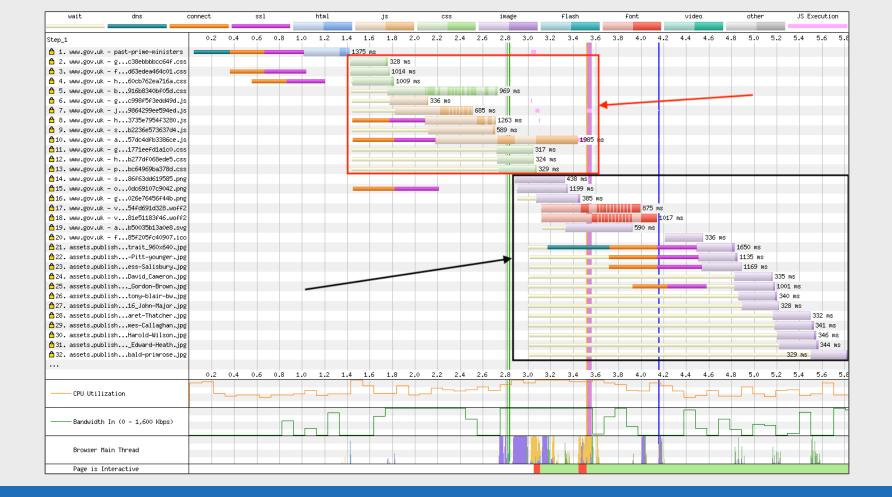
#### <script>window.performance.mark('mark\_custom\_event');</script>

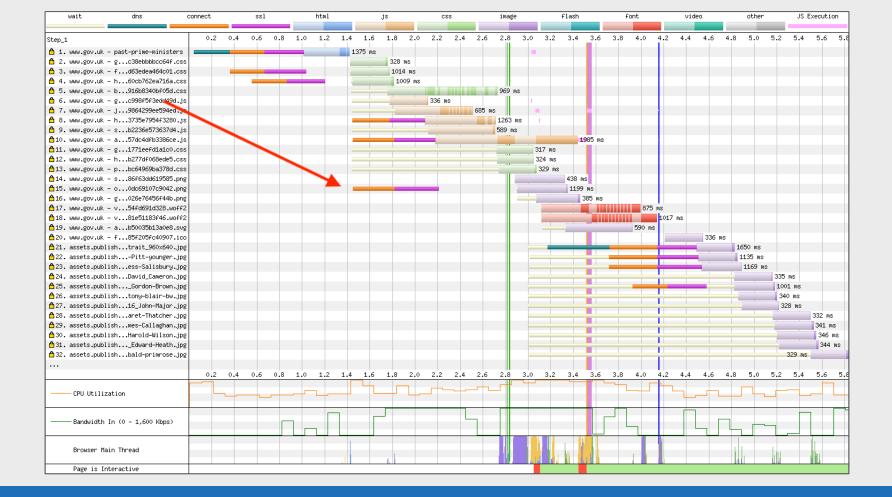


Summary	<u>Details</u>	Perf	ormance	Review C	ontent E	Breakdo	wn	Doma	ins I	Proc	essing E	Breakdown	s	Screen	ishot Im	age A	nalys	is 岱 Re	quest Ma	ap &
Tester: Mo First View Test runs:	only	192.168.	1.116													<u>Exp</u>	oort I	<u>HTTP A</u> Cus	rchive stom Mo	` '
									l	Web	<u>Vitals</u>			Docu	ument Com	plete		1	Fully Loa	aded
		First Byte	Start Render	<u>First</u> <u>Contentful</u> <u>Paint</u>	<u>Speed</u> Index	Res (error	sult code)	<u>Cont</u>	<u>gest</u> entful aint	La	nulative ayout Shift	<u>Total</u> <u>Blocking</u> <u>Time</u>	Ti	me	Requests	Byte	s In	Time	Reques	ts Bytes
First View	v ( <u>Run 1</u> )	1.101s	2.985s	2.972s	7.930s	C	)	3.6	99s	0	.008	5.350s	18.9	946s	97	2,222	KB	24.806s	134	2,276
gpt- tag- load	facebook	PixelAd	ldonInitSt	art bcAdBl	ockDete	ctStart	bcInit	Start	bcInitE	End	bcAdBl	ockDetectE	nd	prebi	dAddonInit	tStart	preb	idAddon	InitEnd	Color
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#### Scenarios

# **Chrome Stair-Step**





#### **CPU Bottleneck**

wait	dns	connect	ssl	html	js	CSS		image	flash	fo	ont	video		other	JS E	xecution
https://gearside.c	com/nebula/	0.5	1.0	1.5 2.0	2.5 3.0	3.5 4	i.o	4.5	5.0 5.	5 6.0	6.5	7.0	7.5	8.0	8.5	9.0
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CPU Utilization			0.5	1.0	1.0 2.0	2.0 0.0		4.0	+.5	- <del></del>		0.0	7.0	7.5	0.0	0.5	2.0
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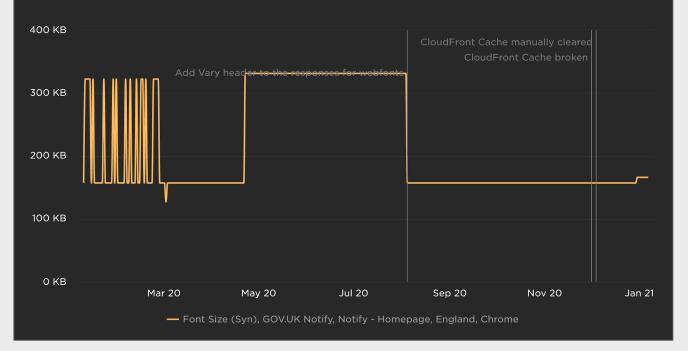
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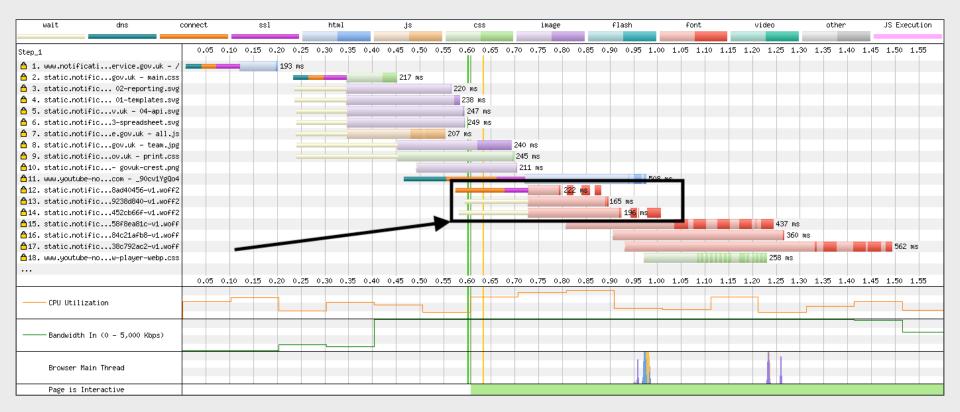
wait	dns	connect	ssl	html	js	CSS		image	f	lash	fo	nt	video		other	JS E	xecution
https://gearside.co	m/nebula/	0.5	1.0	1.5 2.0	2.5 3	.0 3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
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🛱 25. www.google-am	nas.com – linkid.js	5				39 ms 📃											
🛱 26. www.google-an	nalytics.com - collect	:					58	ms									
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🖰 41. gearside.com	- style.css												133 ms				
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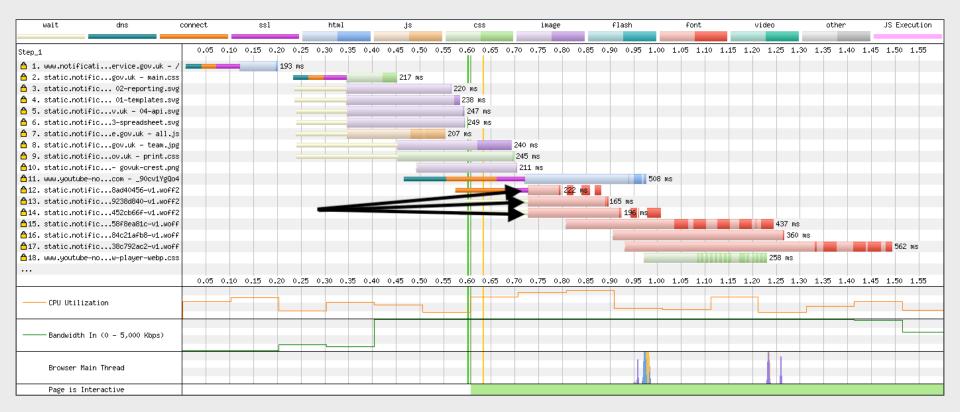
### Vary unusual waterfall

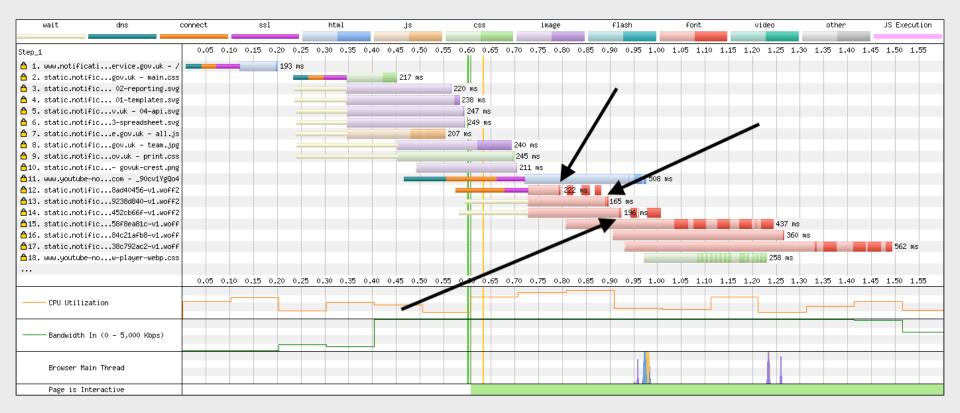
#### Font Size

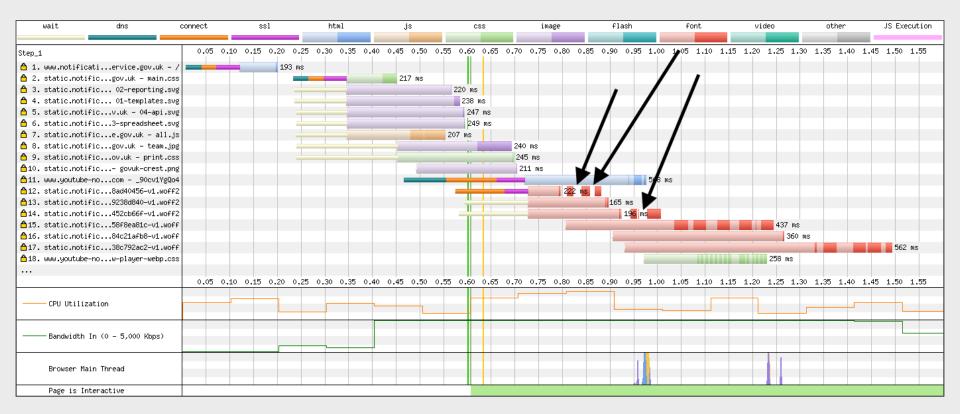
#### **157KB**

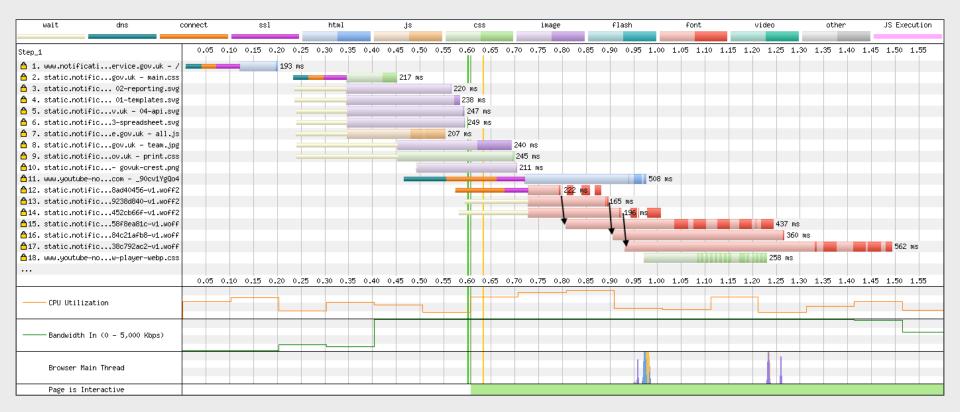


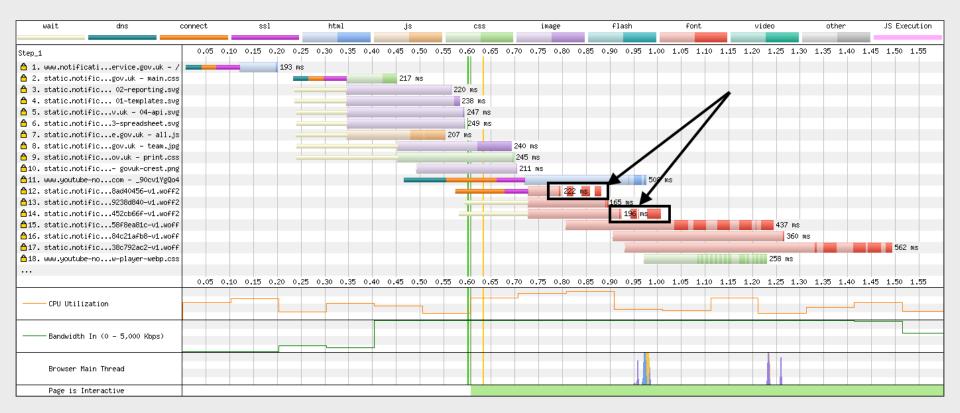












## More information

- <u>Using WebPageTest</u> Rick Viscomi, Andy Davies, Marcel Duran
- <u>Velocity 2014 WebPagetest Power Users Part 1</u> Pat Meenan
- <u>Velocity 2014 WebPagetest Power Users Part 2</u> Pat Meenan
- Velocity 2014 WebPagetest Private Instances Part 1 Pat Meenan
- <u>Velocity 2014 WebPagetest Private Instances Part 2</u> Pat Meenan
- <u>Using WebPageTest Scripting / API / Private Instances</u> Andy Davies
- How to read a WebPageTest Waterfall View chart Matt Hobbs
- How to read a WebPageTest Connection View chart Matt Hobbs
- How to run a WebPageTest test Matt Hobbs

## Thank You's

- Pat Meenan (<u>@patmeenan</u>)
- Andy Davies (<u>@AndyDavies</u>)
- Barry Pollard (@tunetheweb)
- Ryan Townsend (@RyanTownsend)
- Simon Hearne (@simonhearne)
- Boris Schapira (@boostmarks)
- Joseph Scott (@josephscott)
- Mike Herchel (@mikeherchel)
- Šime Vidas (@simevidas)
- Rick Viscomi (@rick\_viscomi)
- Radu Micu (@radumicu)
- Jeff Posnick (@jeffposnick)
- George Liu (<u>@centminmod</u>)

#### **Thanks for listening!**

#### Matt Hobbs

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