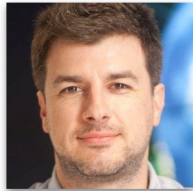


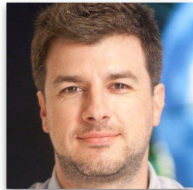
Noise Canceling RUM



@TimVereecke



Noise Canceling RUM



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Real User Monitoring

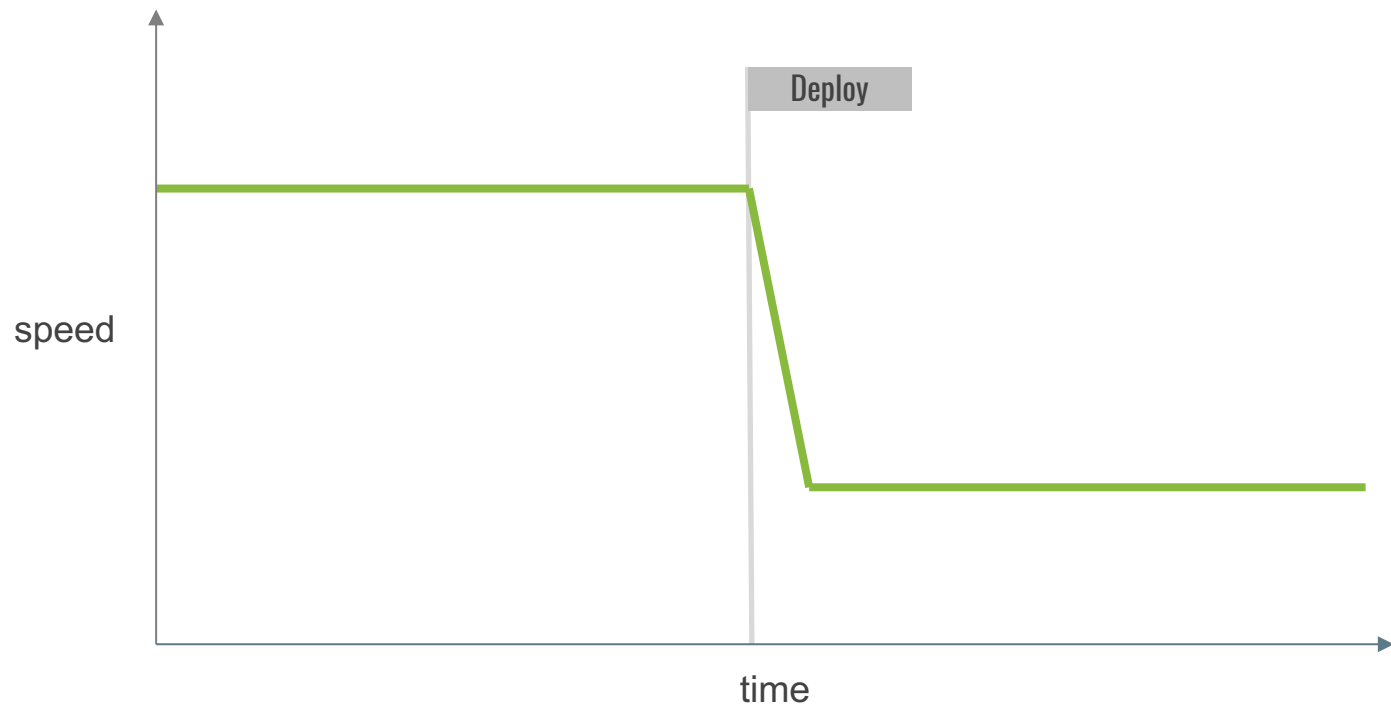


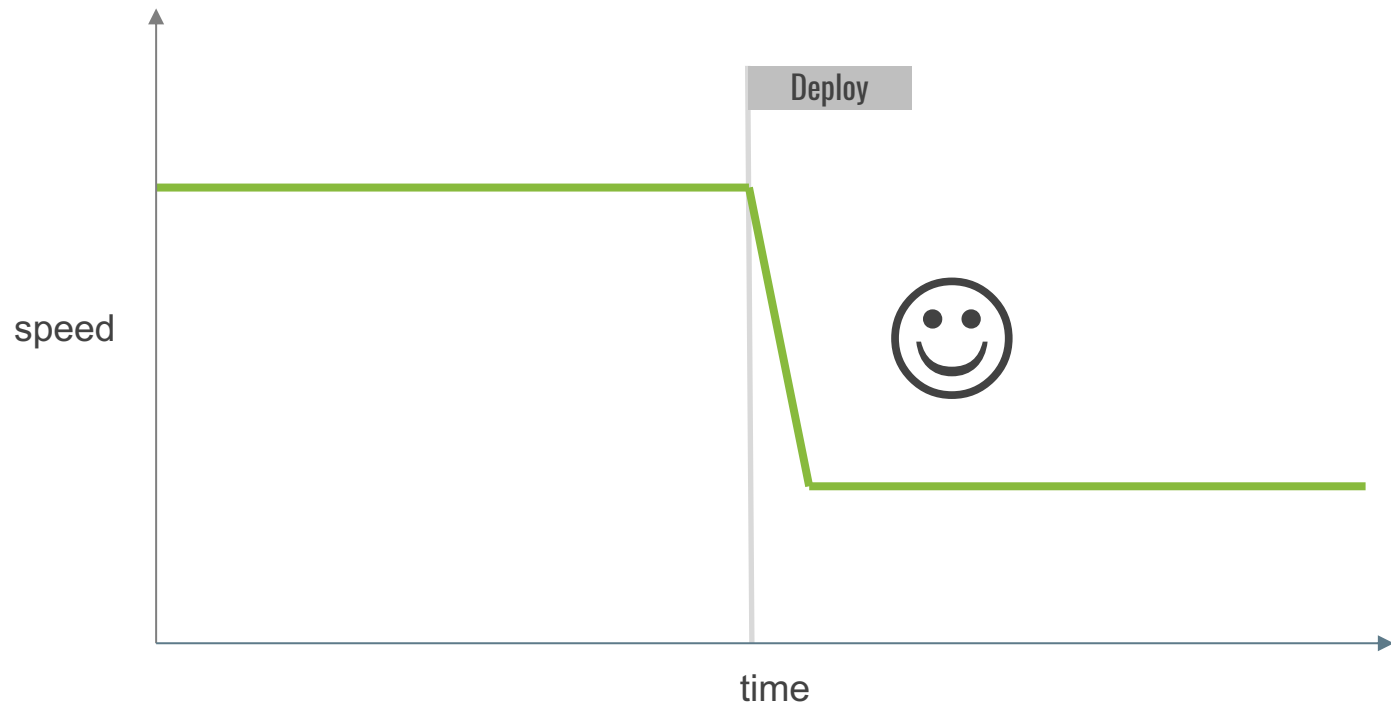
Very NOISY

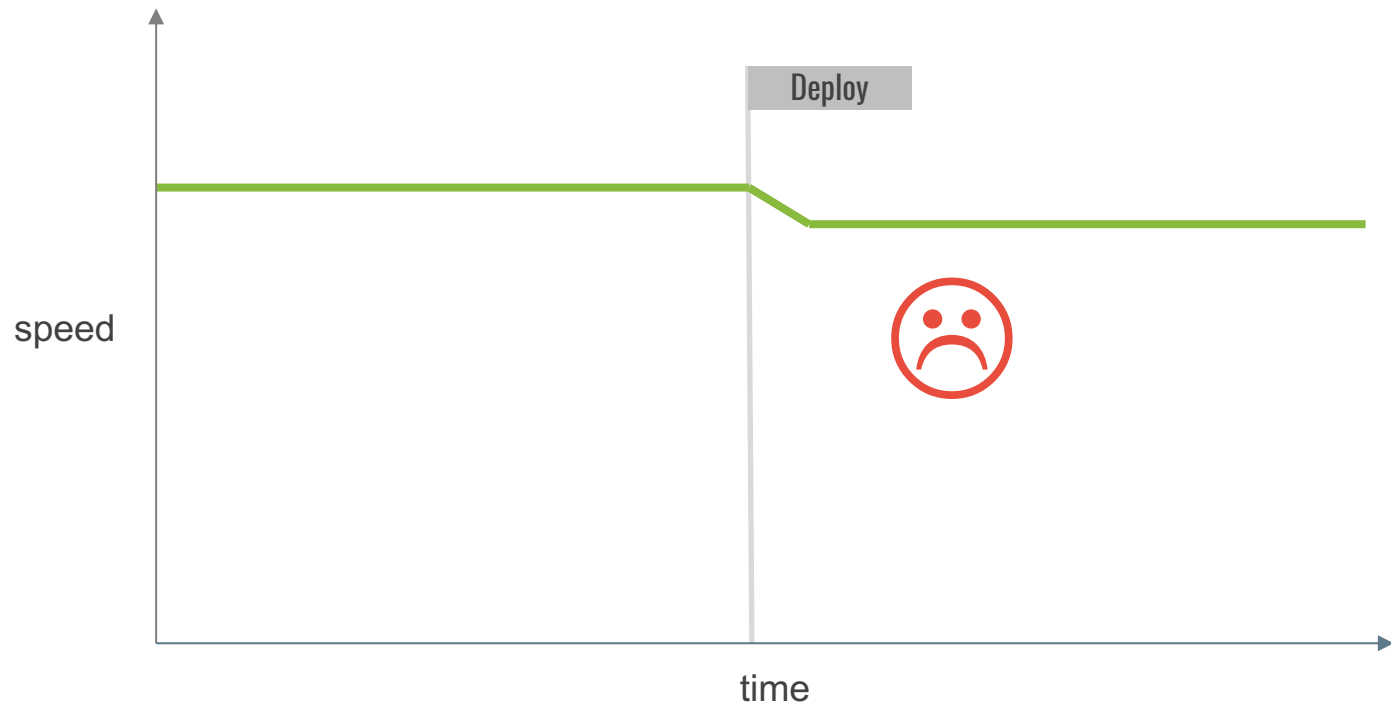


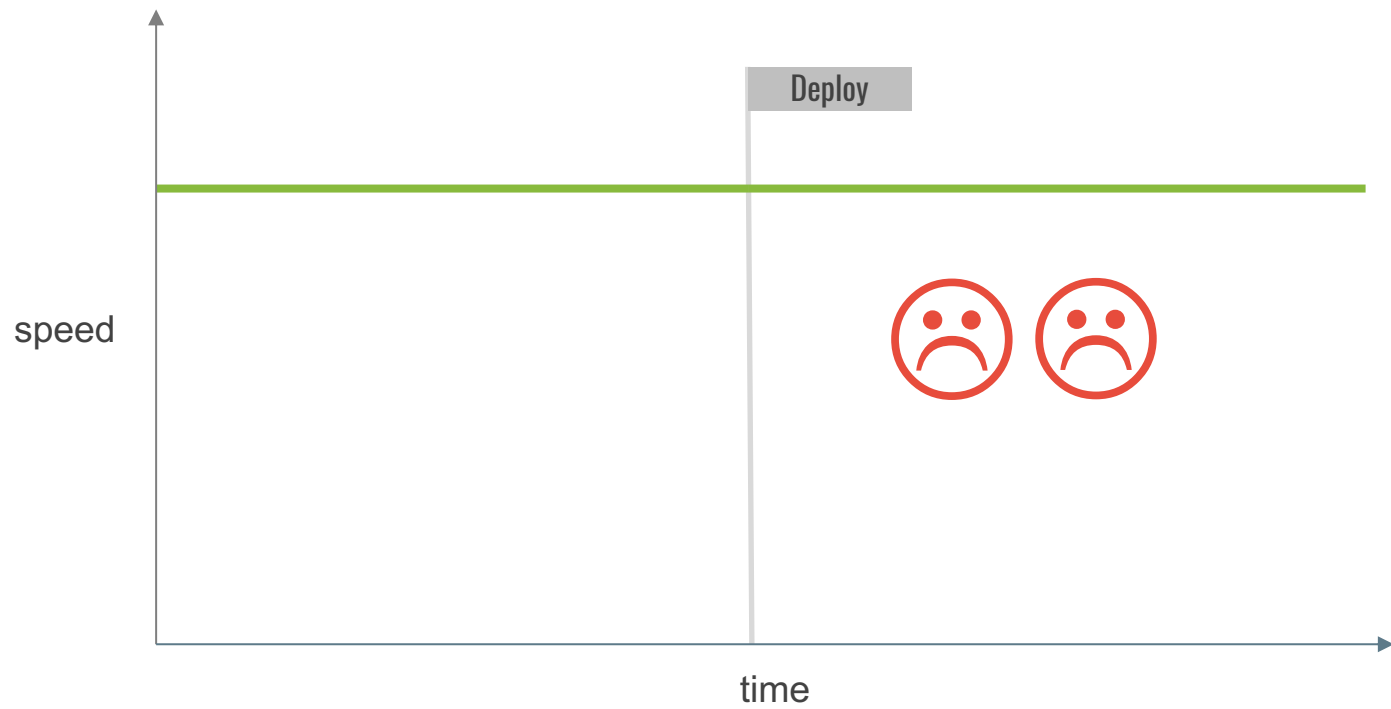


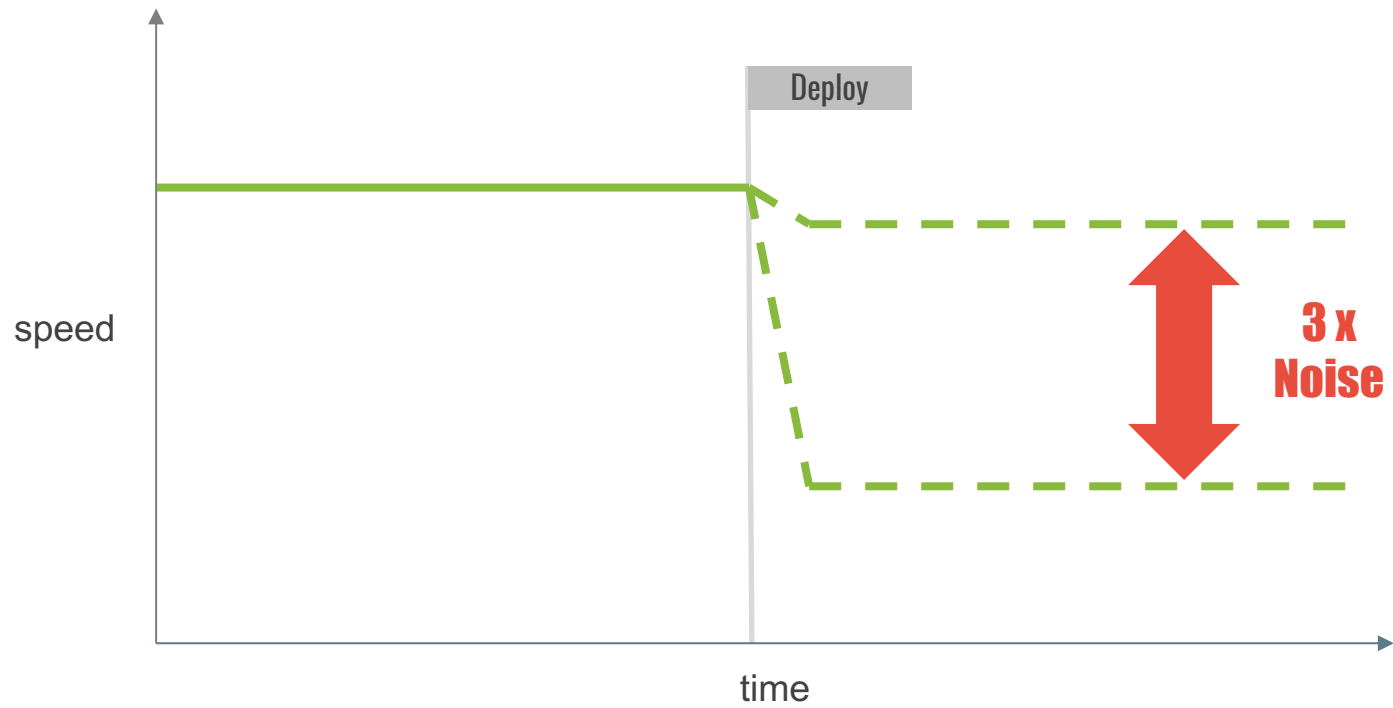
**Noise
Canceling
RUM**











Issue #1

Single Percentile Fetish

Measurements (ms)

178	257	146	184	229	175	141	163	196	166	211	186
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Measurements (ms)

141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

lowest



highest

Measurements (ms)

141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

P50
Median

Measurements (ms)

141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

P50
Median

P75

Measurements (ms)

141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

P25

P50
Median

P75

Measurements (ms)

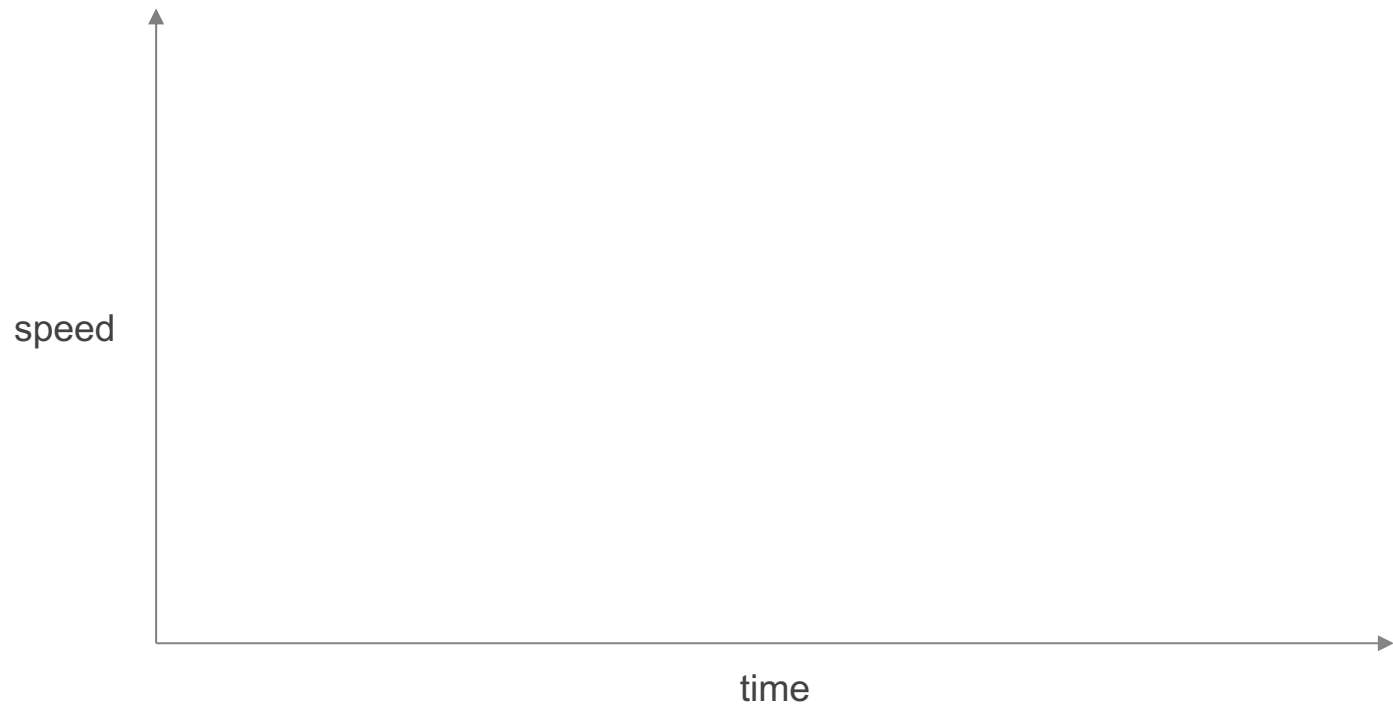
141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

P25

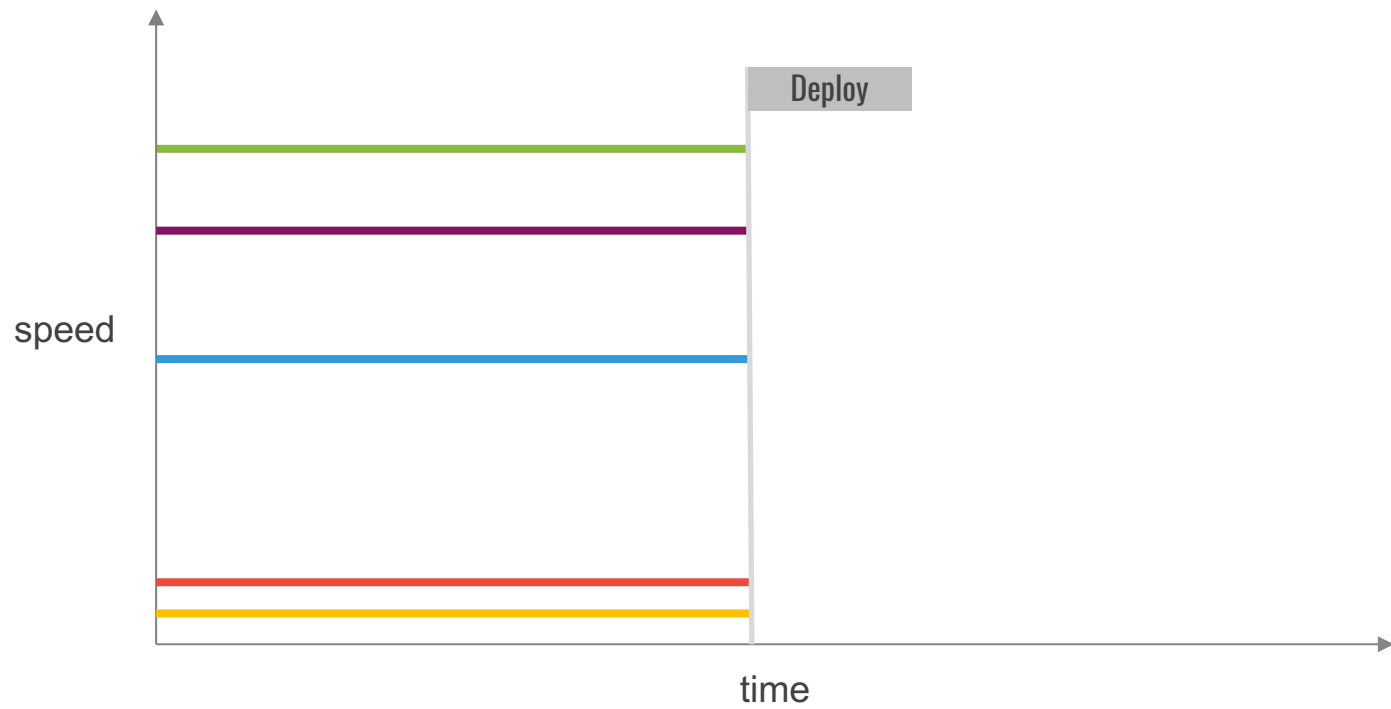
P50
Median

P75

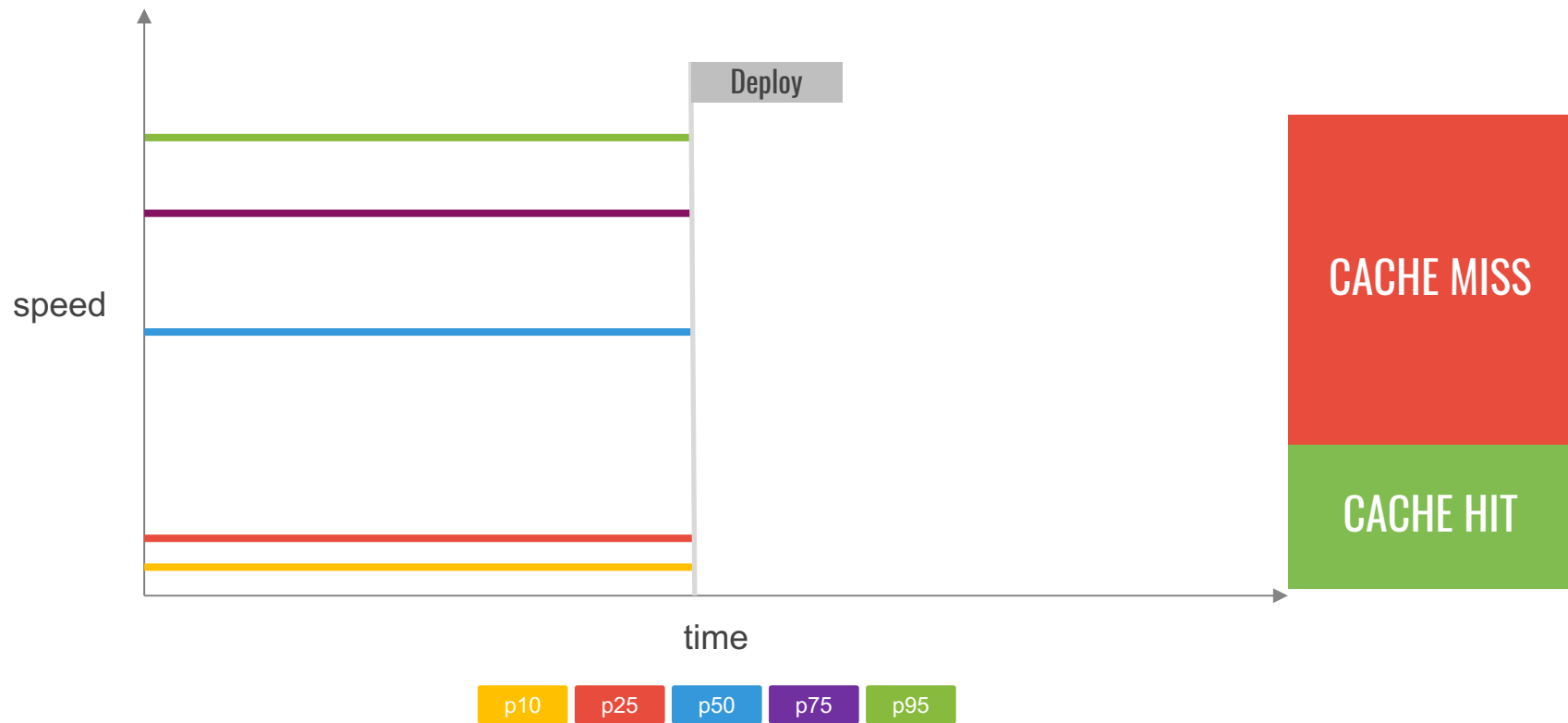
P95

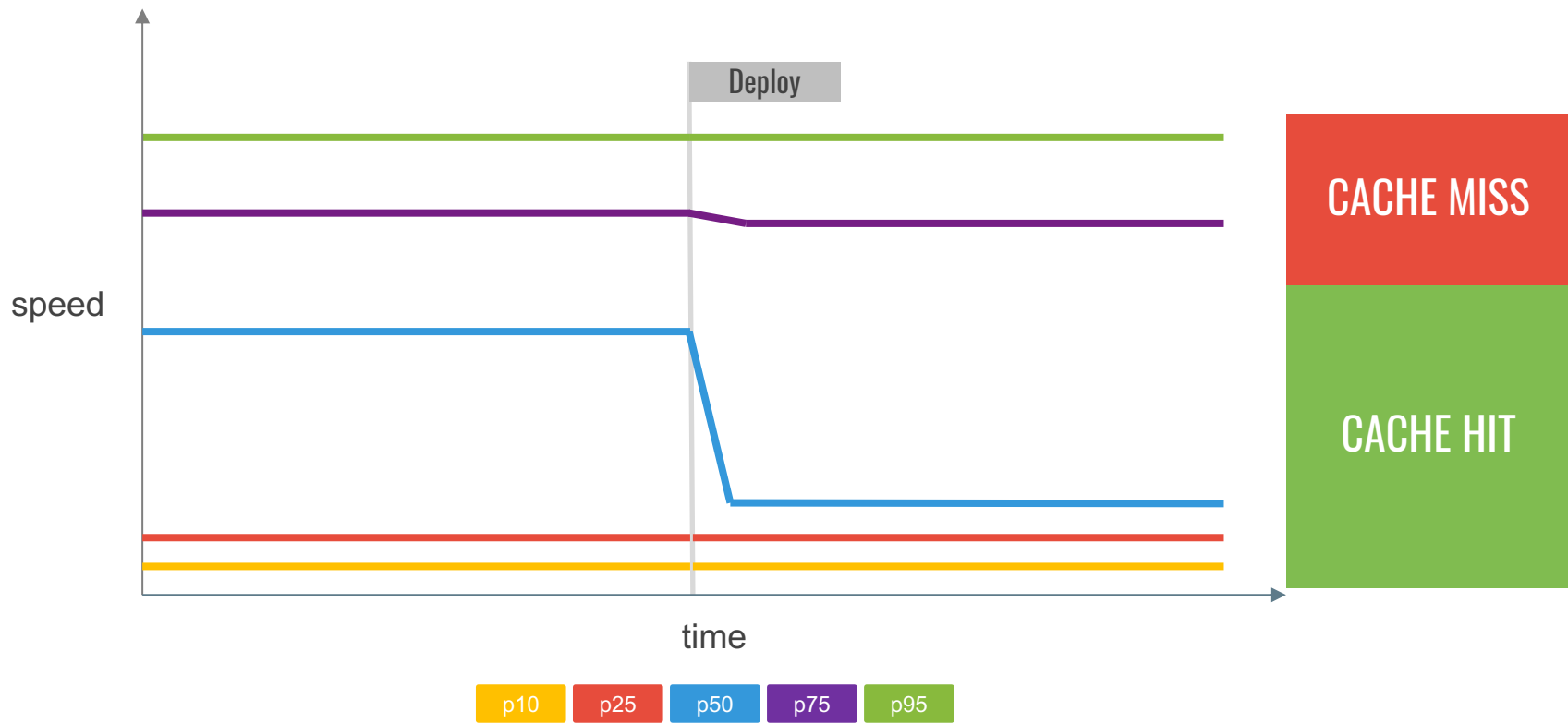


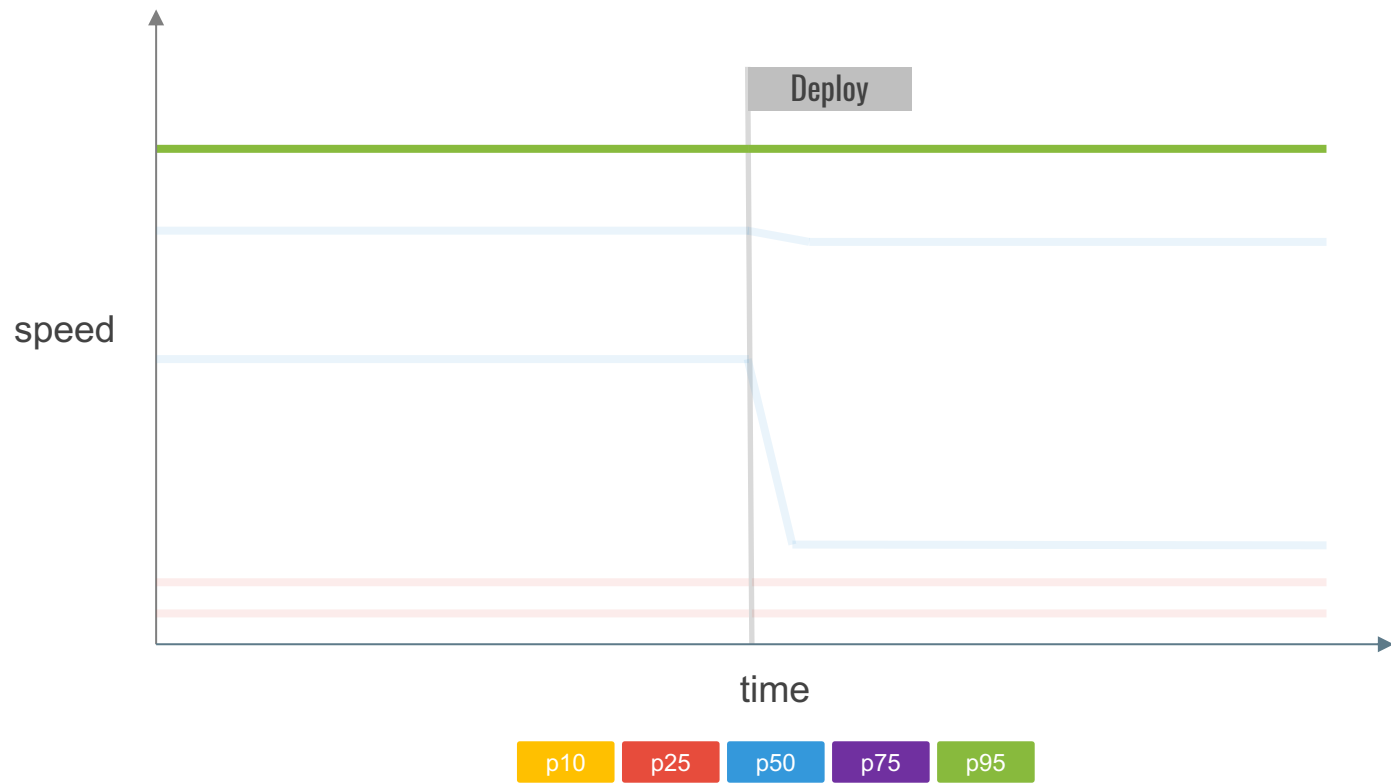
p10 p25 p50 p75 p95

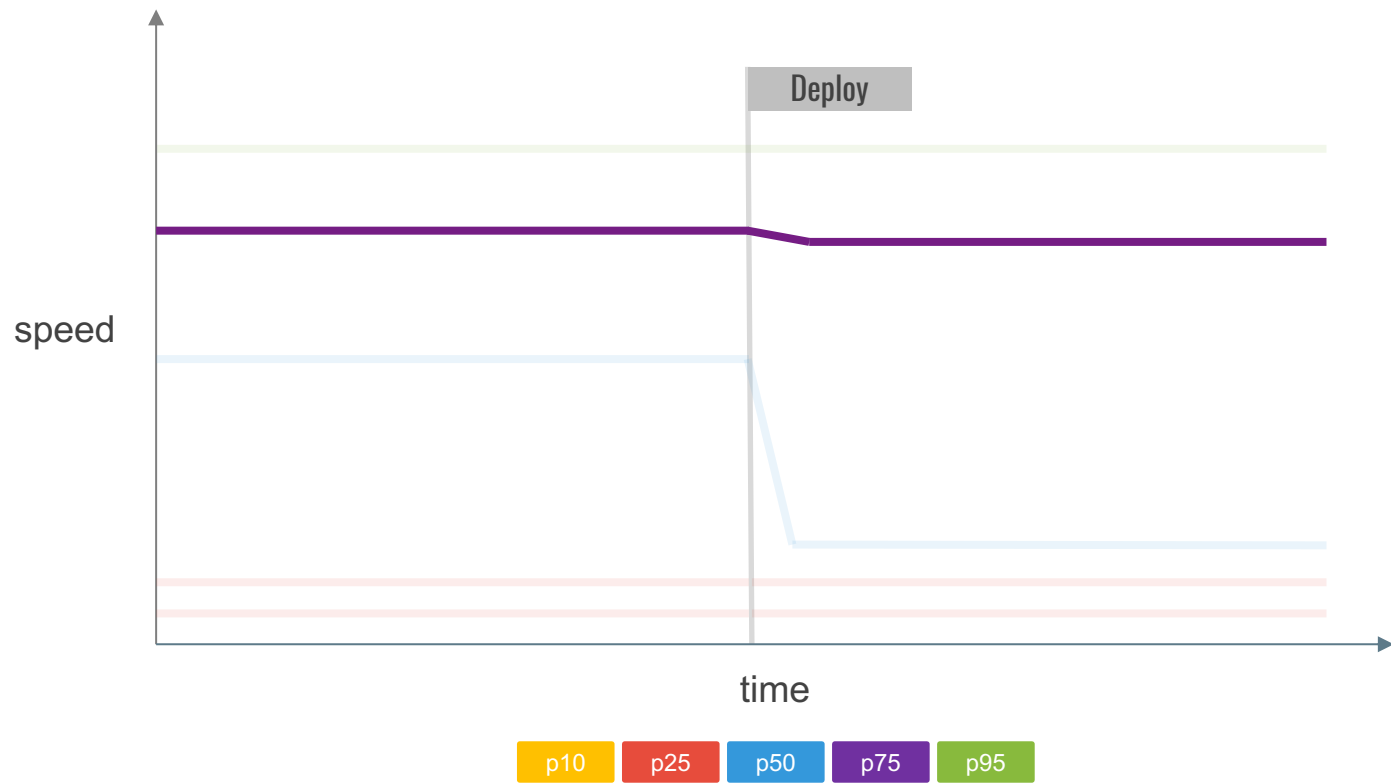


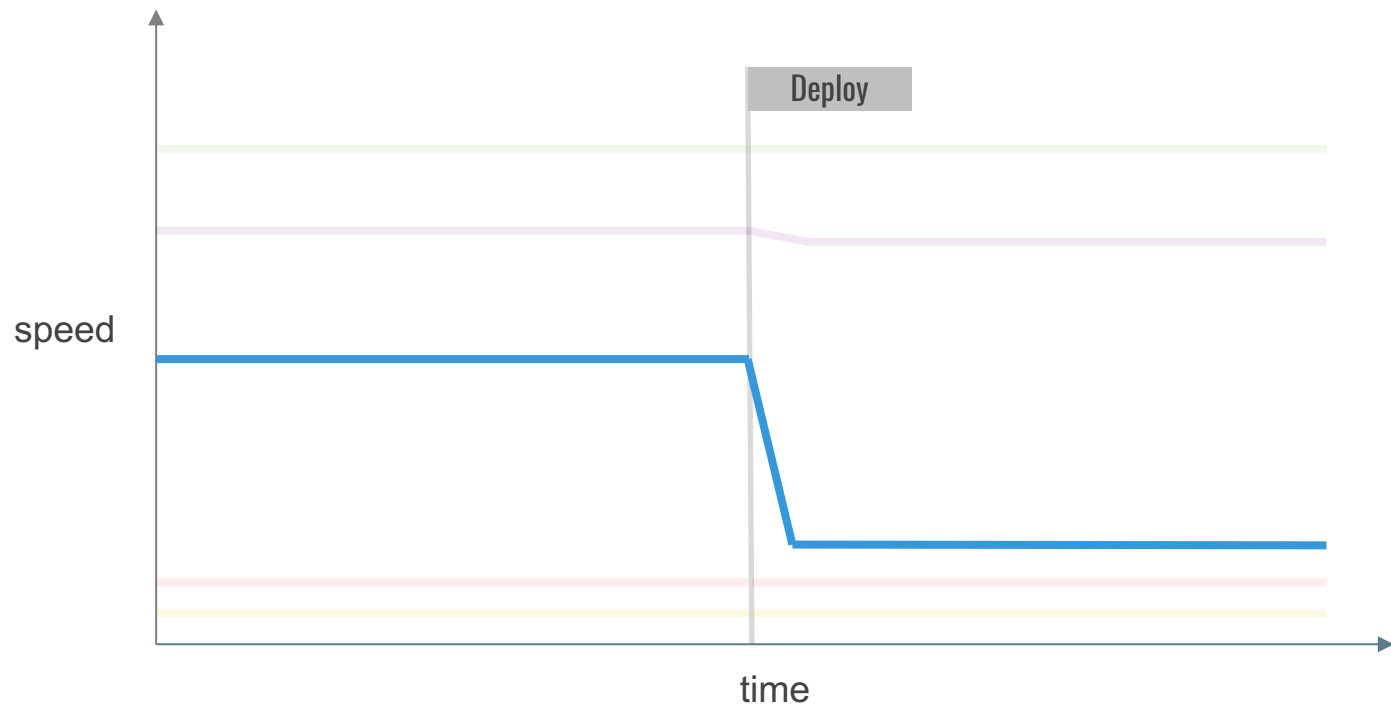
p10 p25 p50 p75 p95





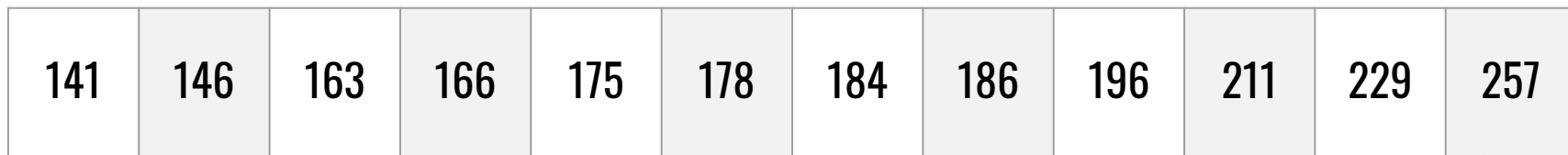






p10 p25 p50 p75 p95

Tip #1
Analyse multiple percentiles



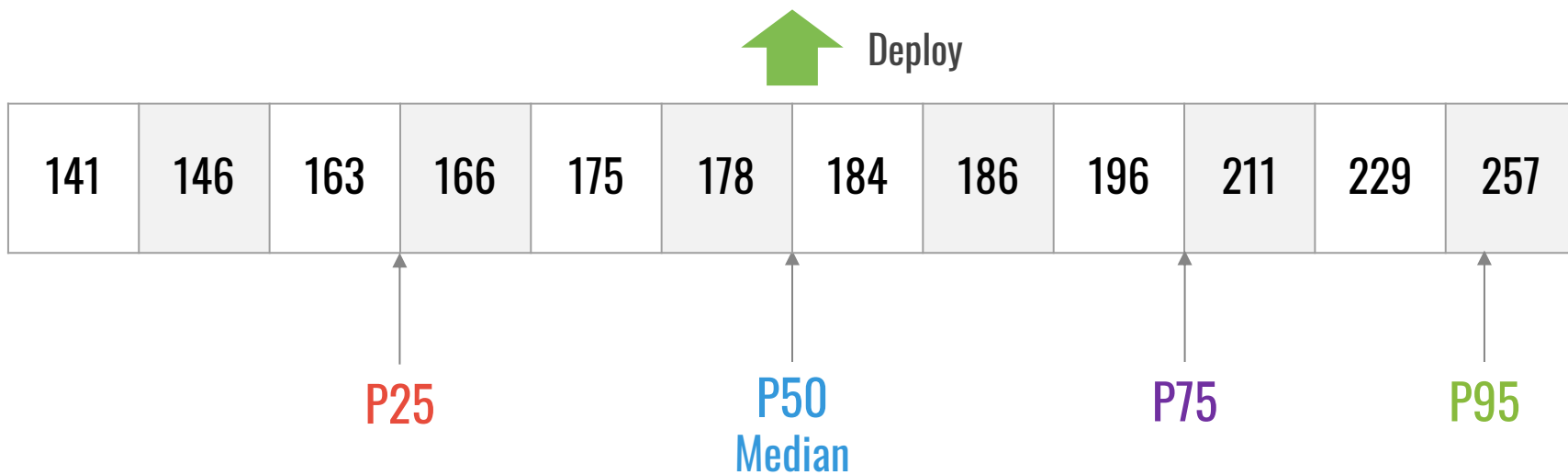
P25

P50
Median

P75

P95

CAUTION



CAUTION

139	141	146	163	166	175	178	184	186	196	211	229
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Deploy

141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



P25



P50
Median

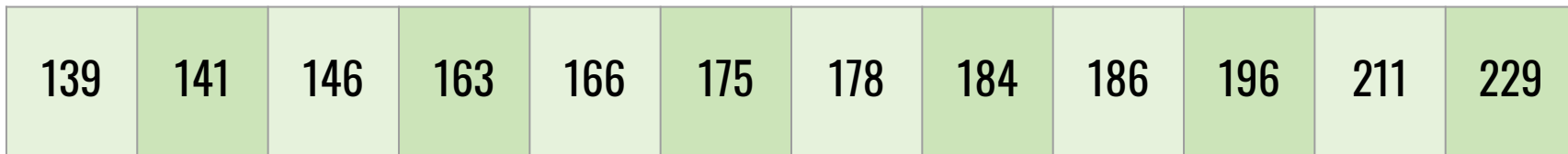


P75

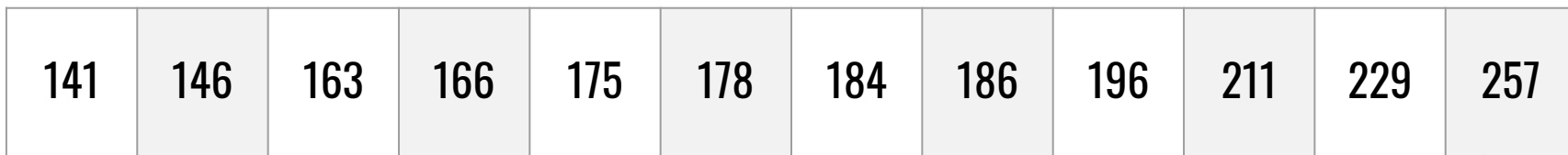


P95

CAUTION



Deploy



P25

P50
Median

P75

P95

CAUTION

139	141	146	163	166	175	178	184	186	196	211	229
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Deploy

141	146	163	166	175	178	184	186	196	211	229	139 257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----------------------

P25

P50
Median

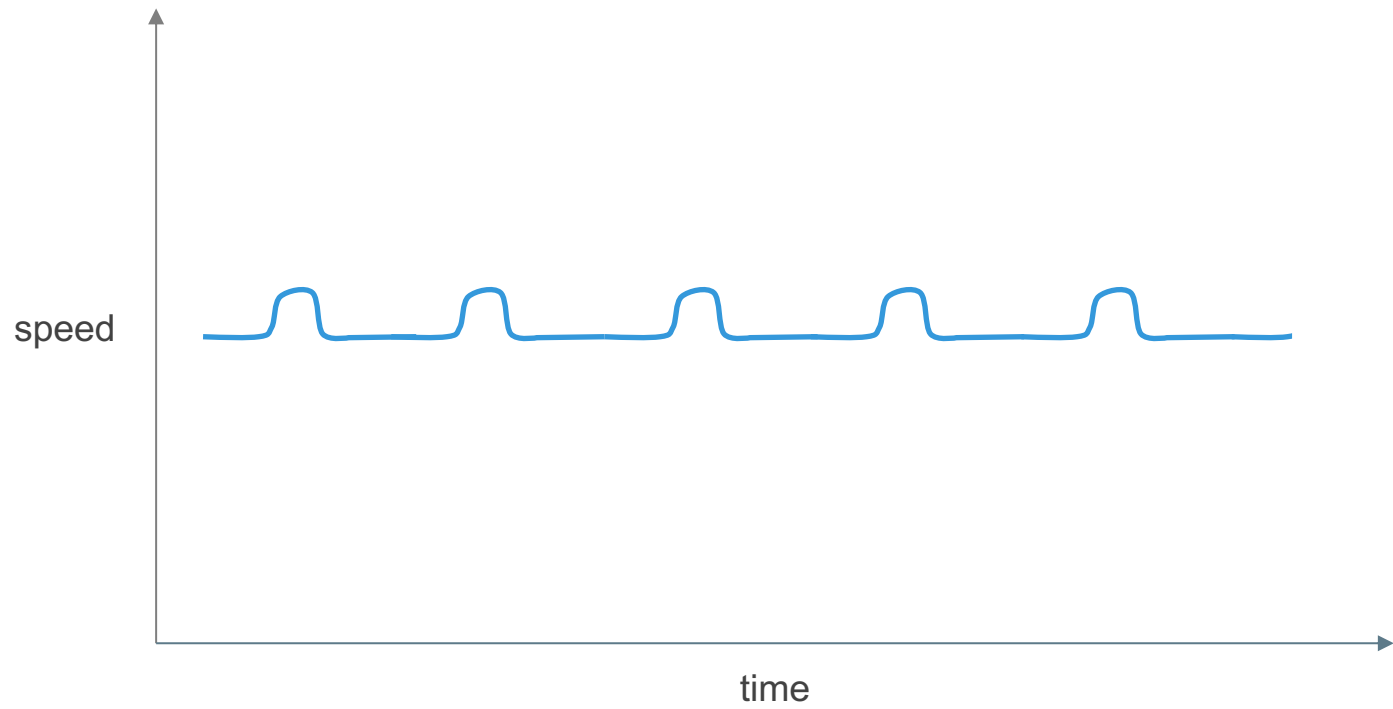
P75

P95

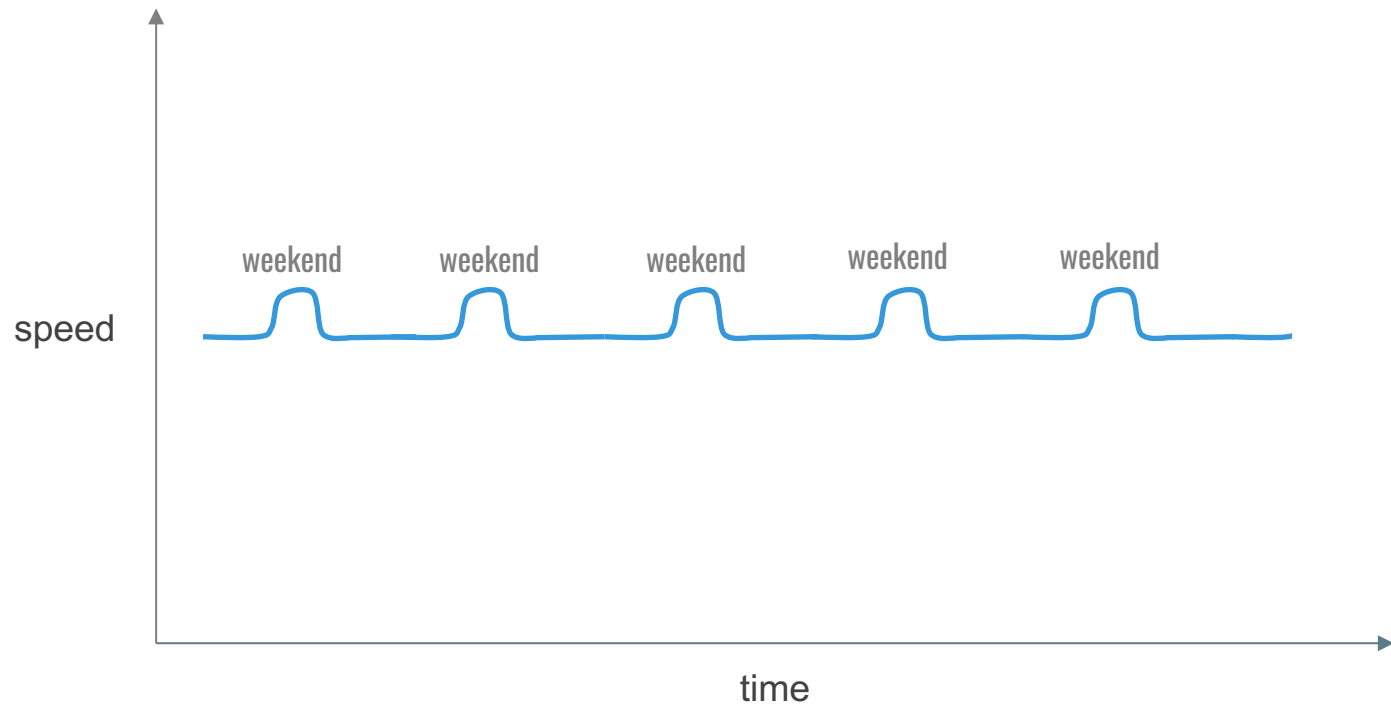
CAUTION

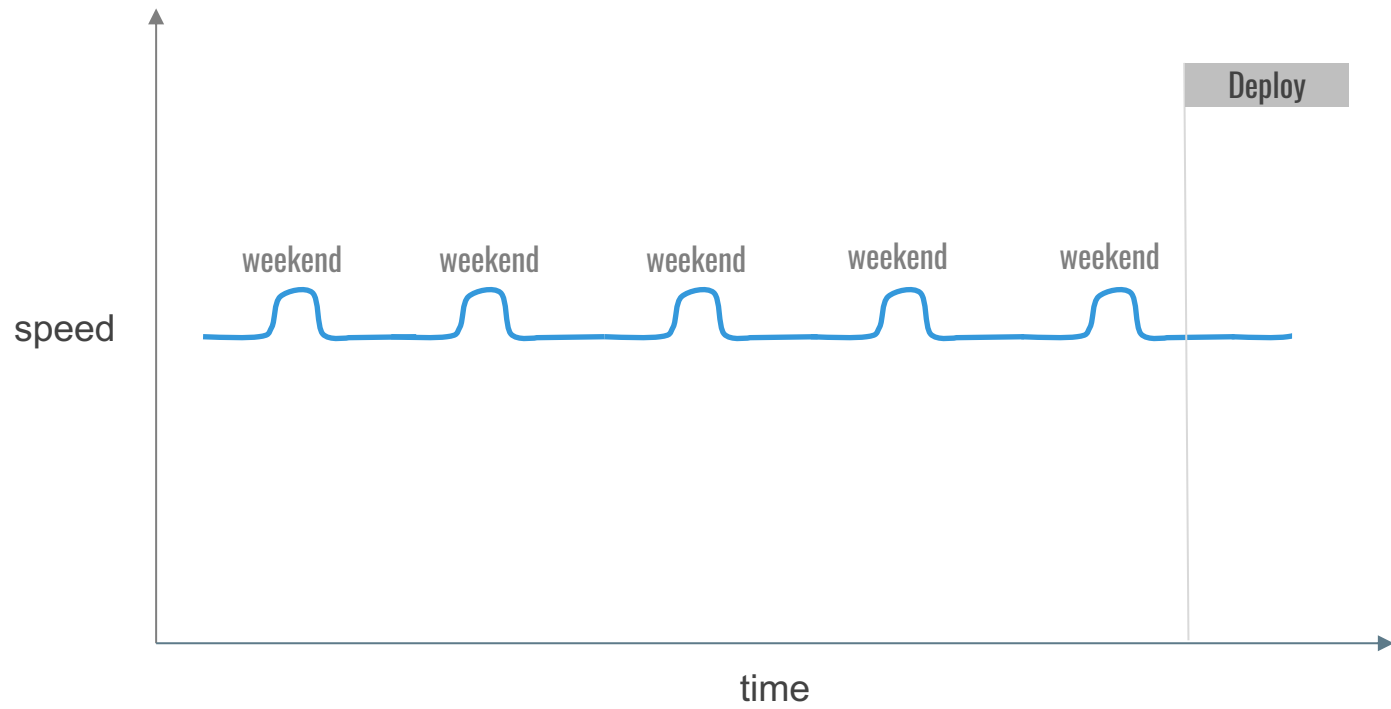
Issue #2

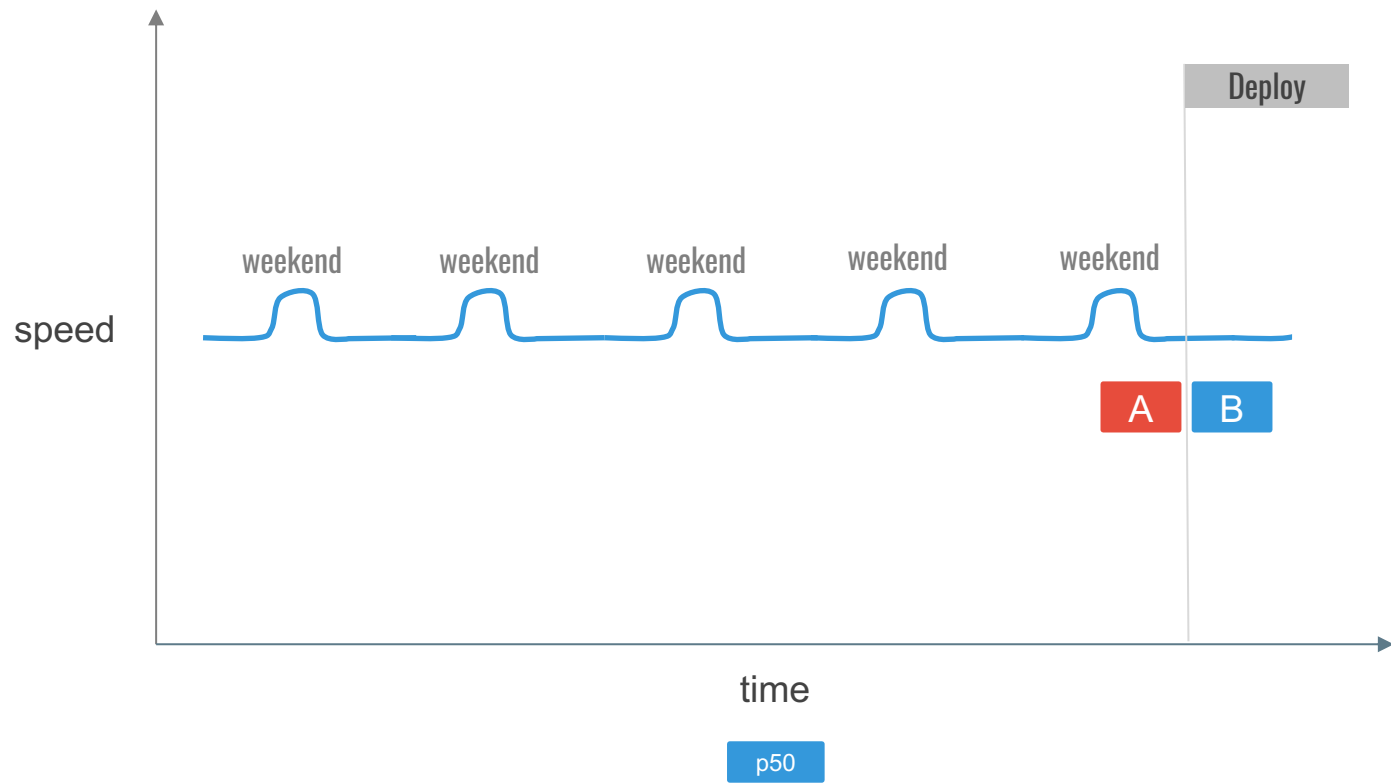
Traffic patterns

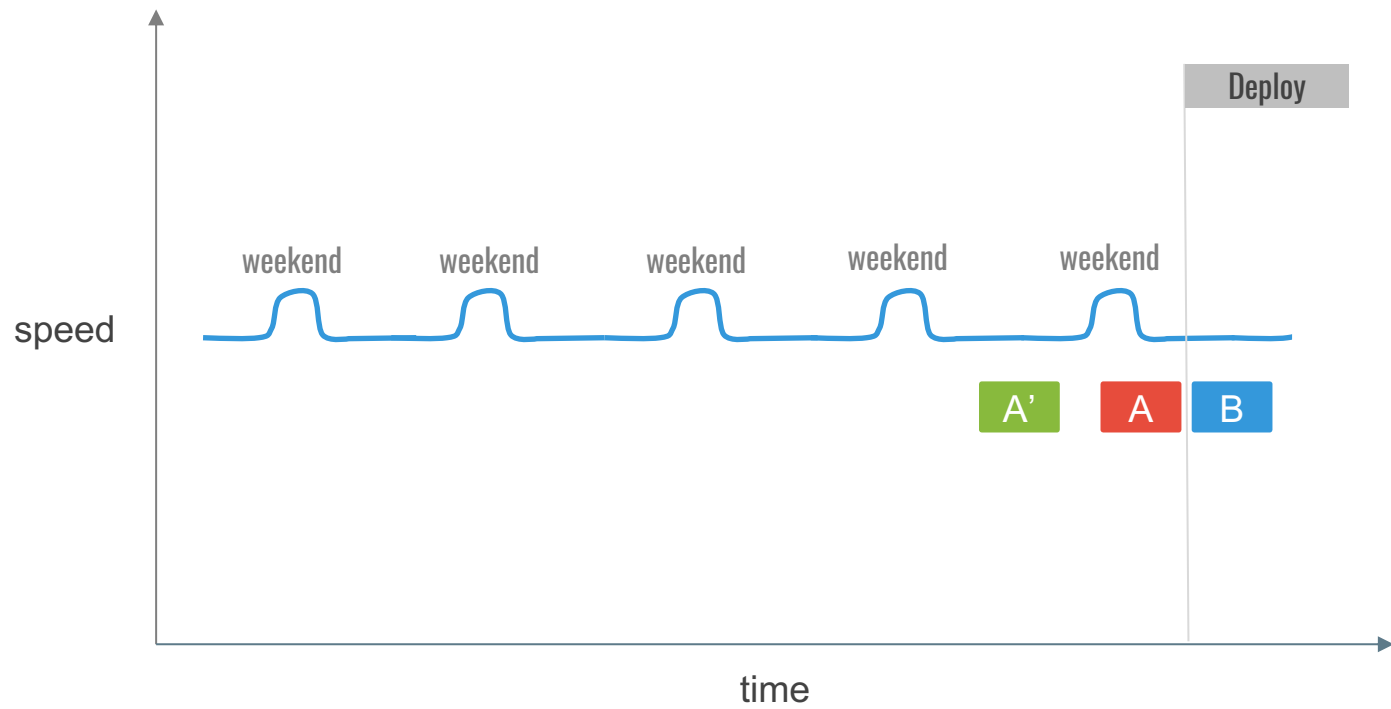


p50









Row	Hour	Back-End Time (TTFB) ▲	Beacons Bar
1	20.00	643 ms	9,102
2	18.00	690 ms	9,882
3	10.00	728 ms	7,561
4	16.00	736 ms	9,094
5	14.00	738 ms	8,705
6	22.00	743 ms	5,764
7	12.00	753 ms	8,246
8	8.00	767 ms	6,931
9	6.00	786 ms	5,553
10	4.00	811 ms	4,110
11	0.00	843 ms	4,133
12	2.00	855 ms	3,955
Total		750 ms	83,036

Tip #2
Compare Apples to Apples

Issue #3

Irrelevant Data

Tip #3

Human Visible Navigations

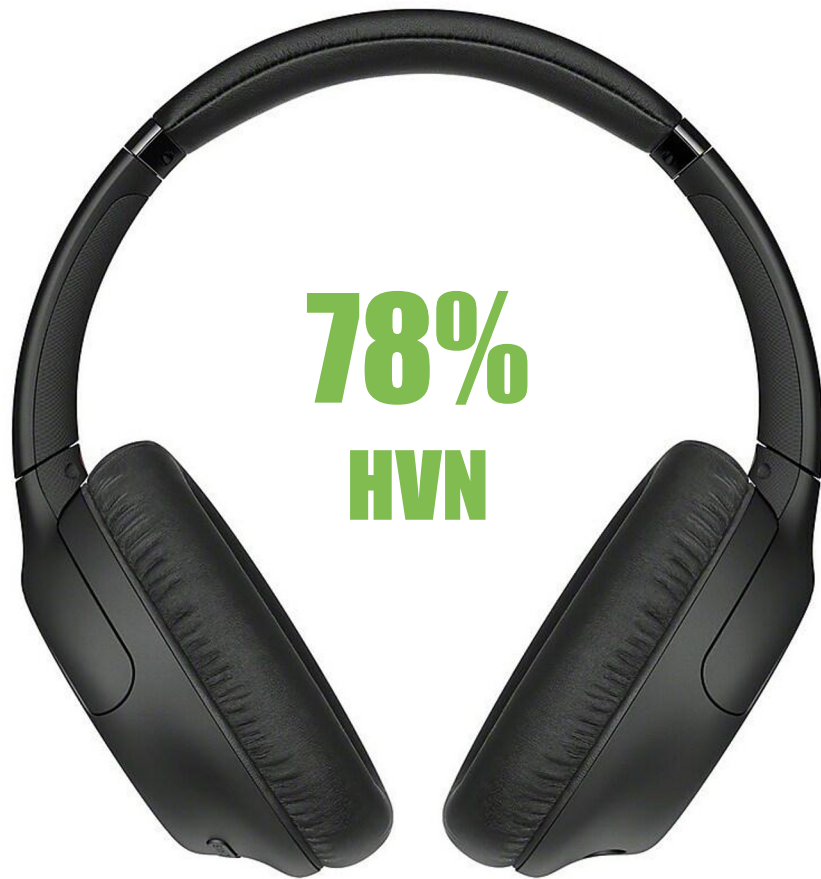
15%
noise



1%
noise

6%
noise

15%
noise



1%
noise

6%
noise



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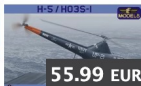
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MH-53E SEA DRAGON MH-14 Vanguard "Chimera" 2017

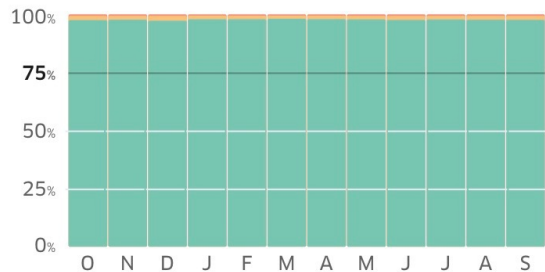


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TREO

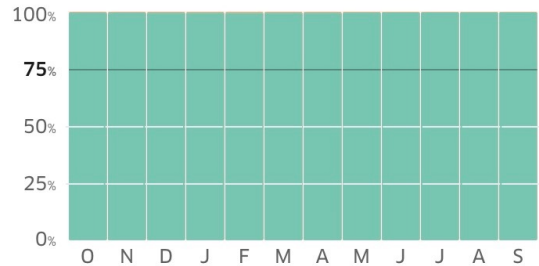
● Largest Contentful Paint CWV ⓘ

0.8_s



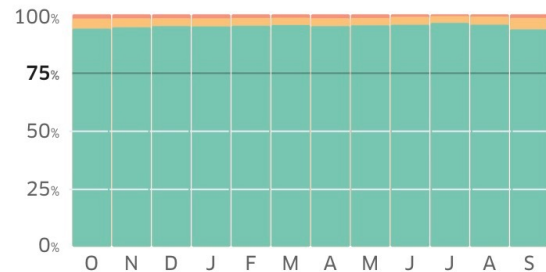
● Cumulative Layout Shift CWV ⓘ

0



● Interaction to Next Paint Exp ⓘ

75_{ms}



Navigations



Elements

Console

Sources

Network

Performance



top ▼

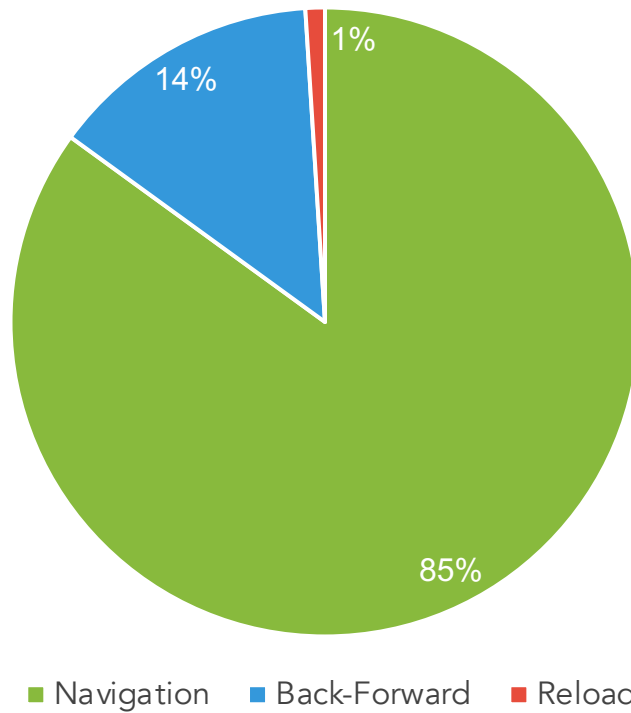


Filter

```
> const entries = performance.getEntriesByType("navigation");  
  entries.forEach((entry) => {  
    console.log(`Navigation type: ${entry.type}`);  
  });
```

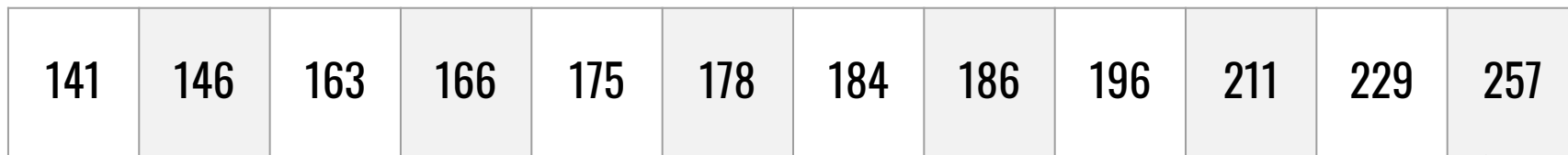
Navigation type: navigate

Navigation Types (MPA)



Row	Navigation Type	Waiting Time	
1	Navigation	96 ms	85%
2	Back-Forward	4 ms	14%
3	Reload	97 ms	1%
Total		83 ms	

Measurements (ms)



P25

P50
Median

P75

P95

Measurements (ms)



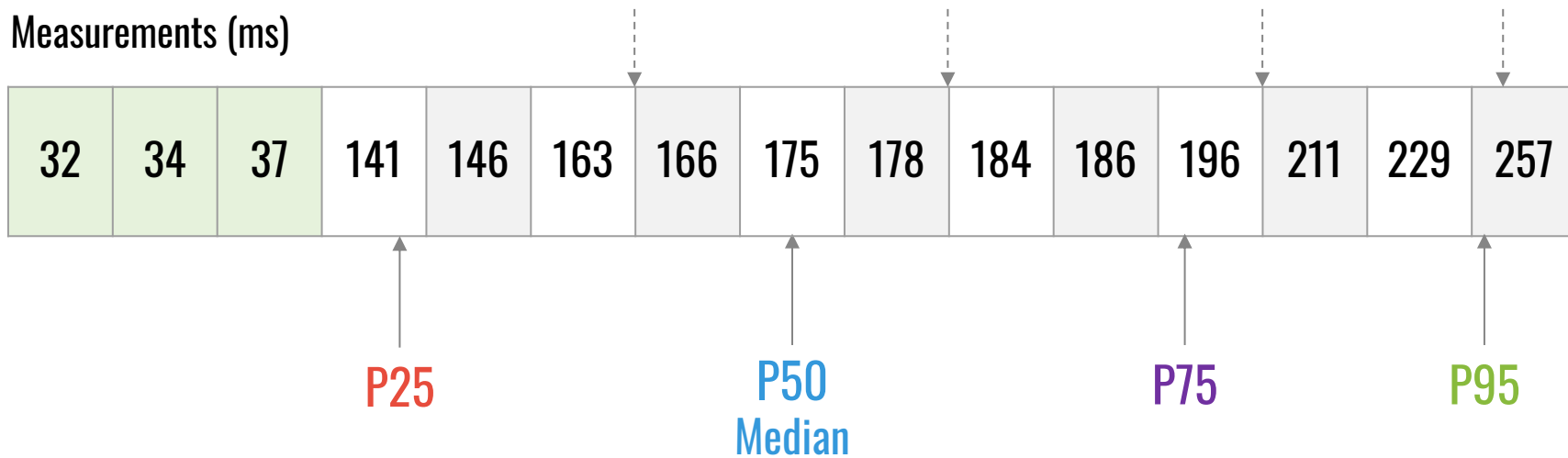
P25

P50
Median

P75

P95

Measurements (ms)





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Meng Model
MMS-011 (MENMMS011) [2023* New tool](#)



HRABE Su-25K in Czechoslovak / Czech AF and Slovak service
Eduard 1:48
11176 [2023 New parts](#)



T-80U Main Battle Tank
Rye Field Model (RFM) 1:35
RM-5105 (RM5105) [2023* New tool](#)



Dune Harkonnen Ornithopter (Wingspan 173 mm and length 88 mm)
Meng Model
MMS-014 [2023* New tool](#)



Merkava Mk 2D with full interior

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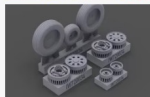
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Mercedes-Benz
LEON CVSTOS AMG GT3 Super GT - GT 300 Champion
Tamiya 1:24
24350 (350) **2019 New parts**



Mercedes-Benz AMG GT3
Tamiya 1:24
24345 **2017 New tool**

Detail and Conversion sets



Mercedes AMG GT3 Door & Engine Detail Kit for Tamiya 24345 & 24350 (Resin + PE + Metal Logo + Metal Parts)
Hobby Design 1:24
HD03-0548 **20xx New tool**



Mercedes AMG GT3 Evo Package Detail-up Parts for Tamiya 24345 & 24350
Hobby Design 1:24
HD03-0658 **2023 New tool**



Mercedes-AMG GT3 - Detail Up Set (for Tamiya 24345)
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AMG GT3 Wynn's rims Set of 4 rims (no tires included)
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- ☐ Full kits (7)

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- ☐ 1:27 (46)
- ☐ 1:43 (9)
- ☐ 1:32 (3)
- ☐ 1:18 (1)

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- ☐ Studio27 (12)
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- ☐ Miniature (9)
- ☐ Racing Decals 43 (9)

Group (1) ▲

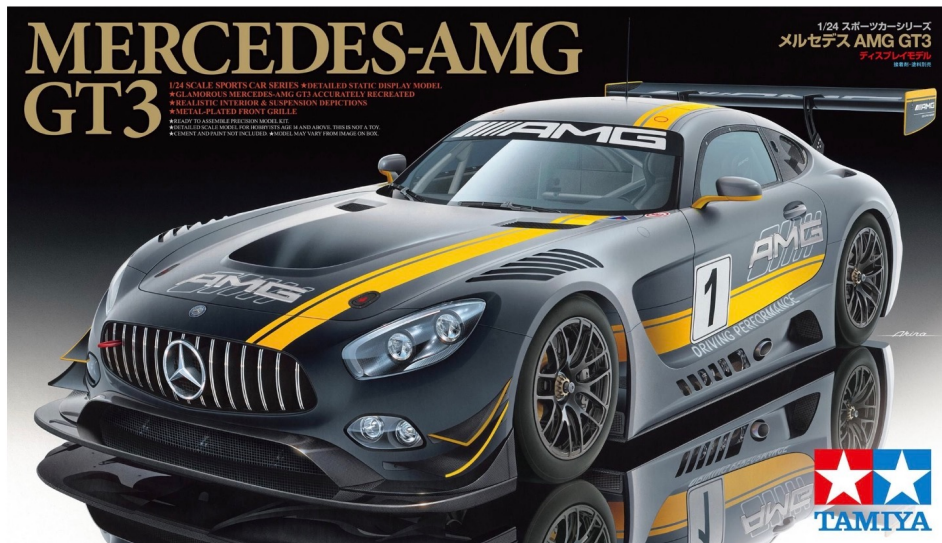
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Tamiya | No. 24345 | 1:24



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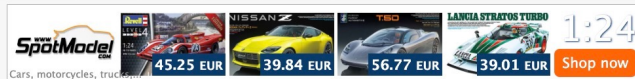
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ZoomOn | No. Z131 | 1:24



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Brand: ZoomOn

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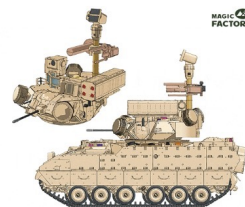
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PDP (Aftermarket)

Page Group	Back-Forward Noise
Homepage	8.1%
Search	22.9%
PDP (Kits)	9.3%
PDP (Aftermarket)	5.9%

Page Group	Back-Forward Noise	
Homepage	8.1%	
Search	22.9%	Blindspot
PDP (Kits)	9.3%	
PDP (Aftermarket)	5.9%	

Page Group	Back-Forward Noise	
Homepage	8.1%	
Search	22.9%	
PDP (Kits)	9.3%	Hours wasted tuning Database
PDP (Aftermarket)	5.9%	

Navigation Types

Row	Navigation Type	Waiting Time	Beacons Bar ▼
1	Navigation	115 ms	 134,544
2	Back-Forward	29 ms	 34,985
3	Reload	184 ms	 5,000
Total		93 ms	 174,529

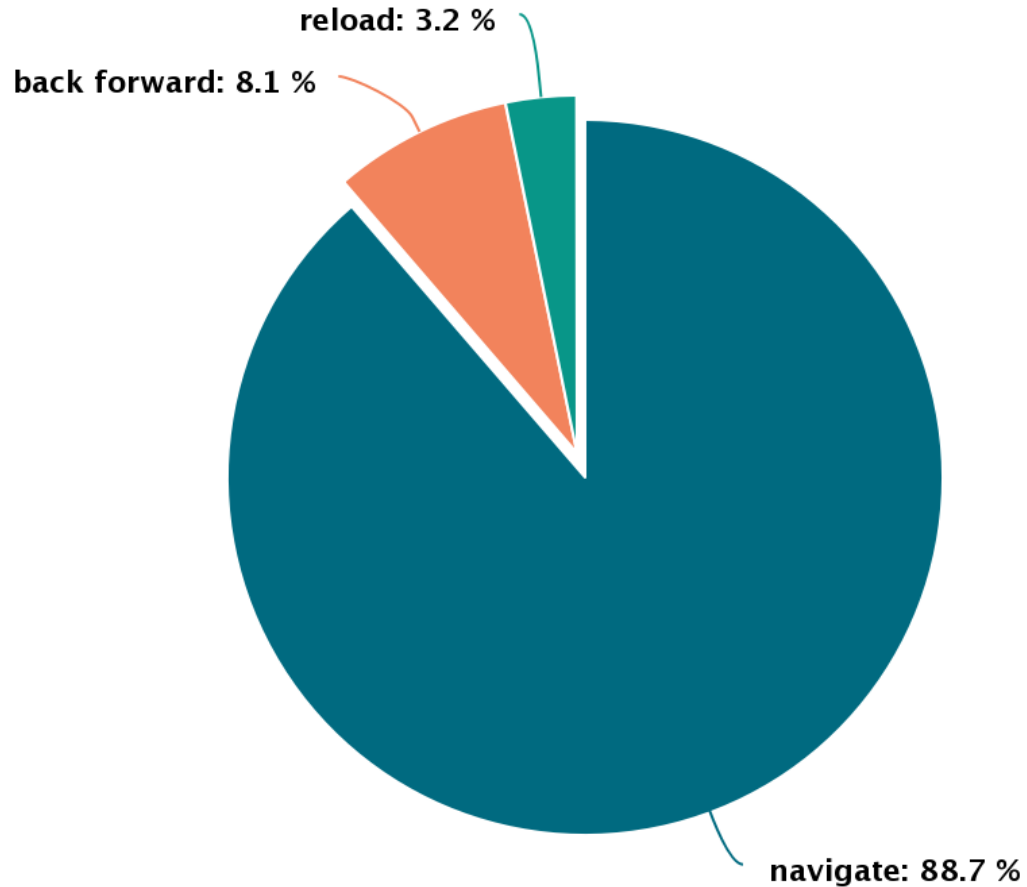
“My site is different!”



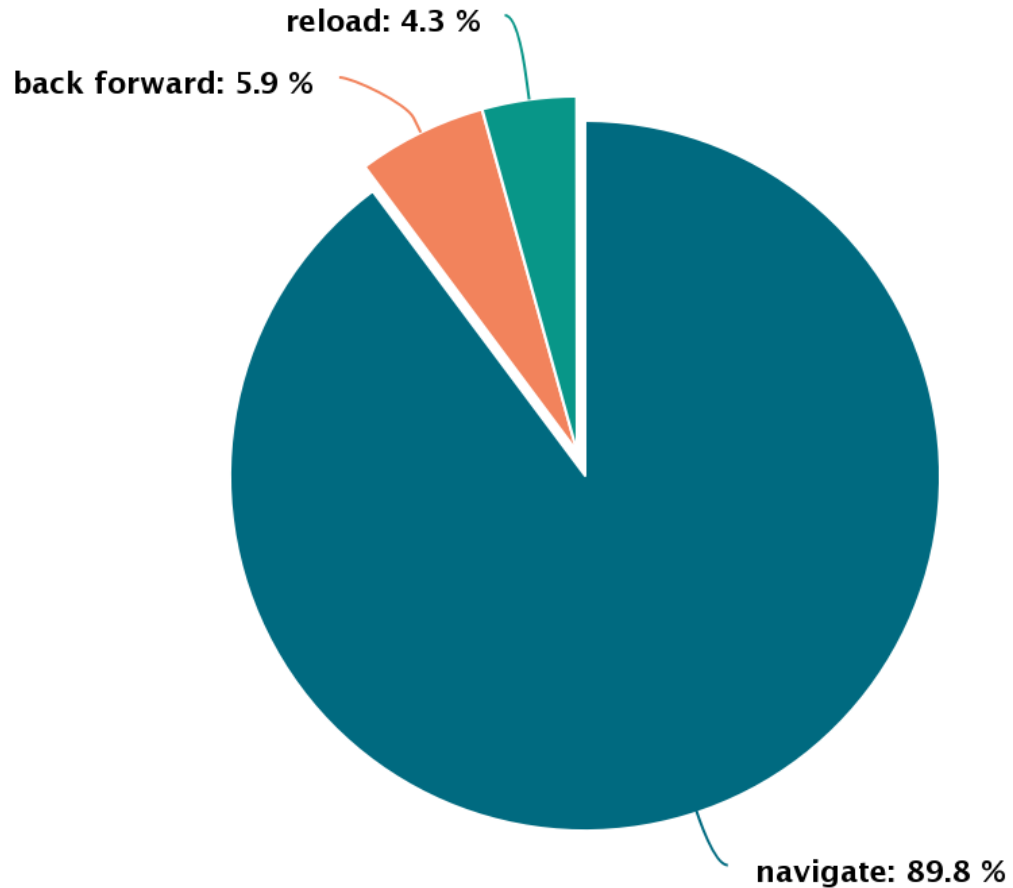
RUM
ARCHIVE

<https://rumarchive.com/>

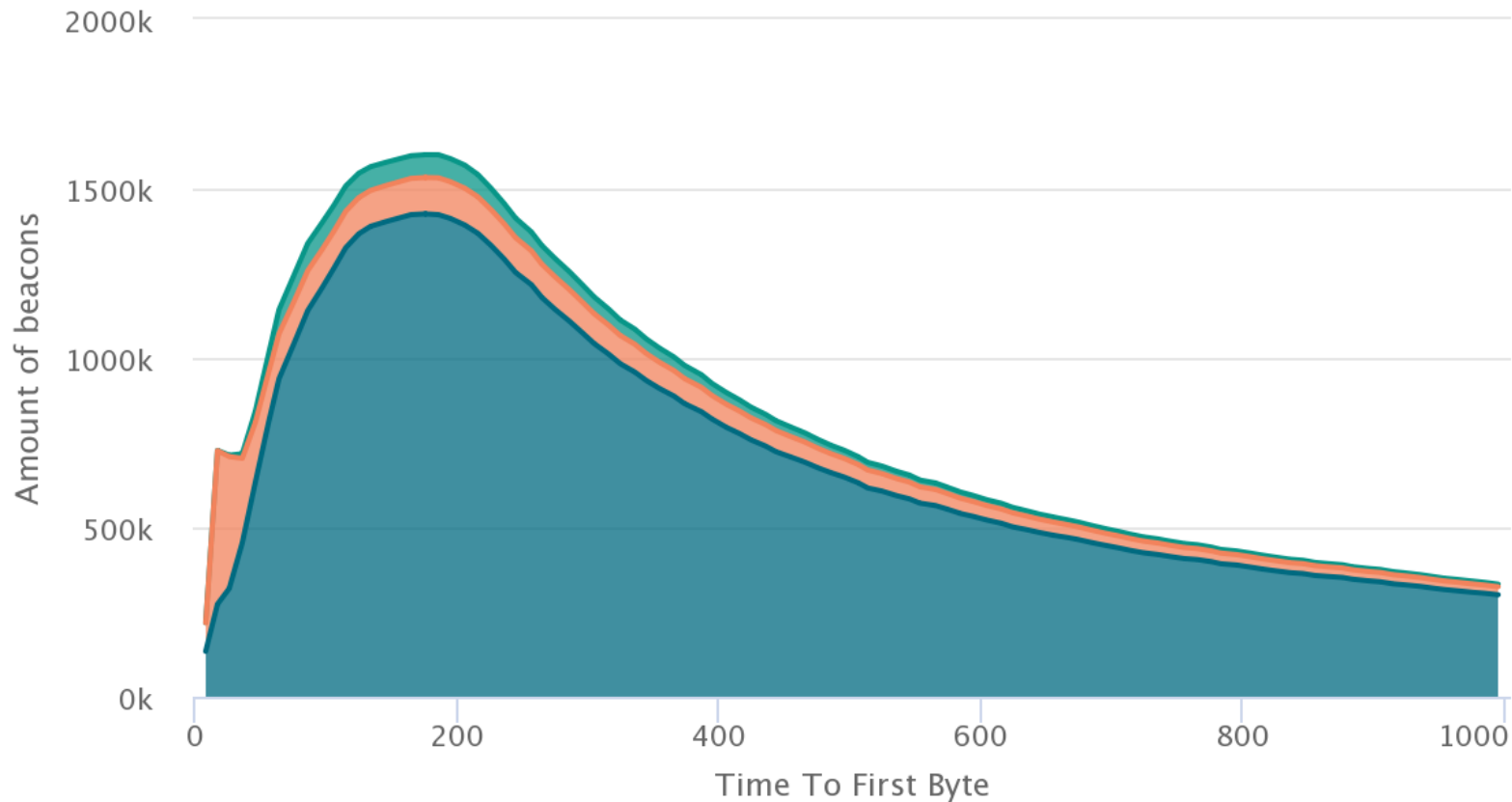
Navigation Types (Mobile)



Navigation Types (Desktop)



TTFB per navigation type (Mobile)



● reload ● back forward ● navigate

1Y



RUM
ARCHIVE

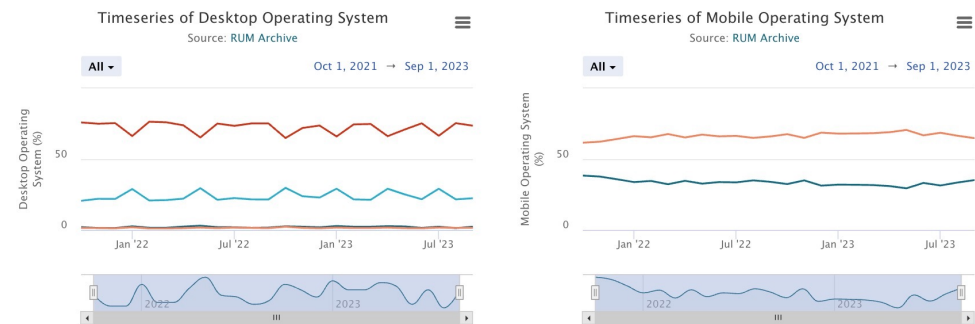
<https://rumarchive.com/>



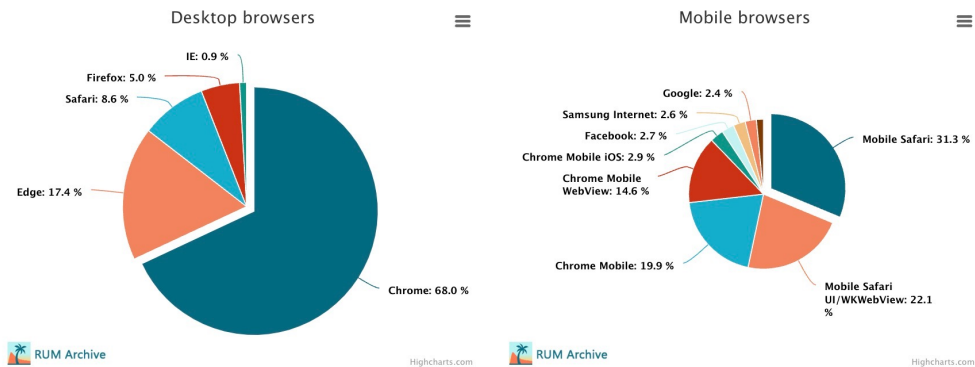
NEW

Operating System

The following graphs show the usage of different Operating Systems for Desktop and Mobile devices (OSes with < 1% usage share have been filtered out).



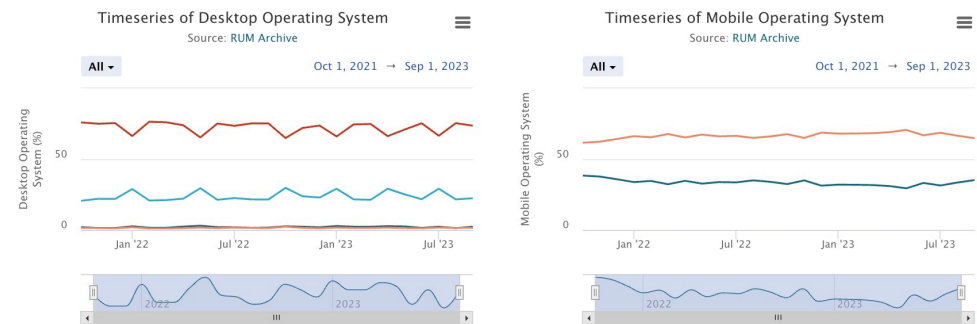
RUM Insights



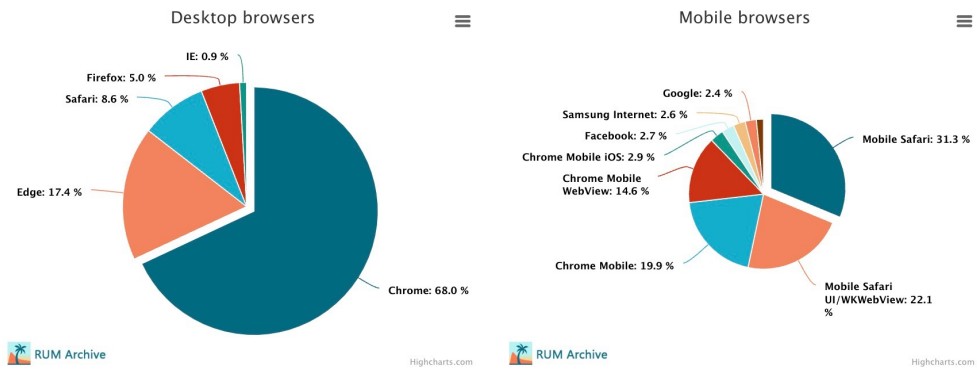
NEW

Operating System

The following graphs show the usage of different Operating Systems for Desktop and Mobile devices (OSes with < 1% usage share have been filtered out).



RUM Insights



Navigational Aspects



ROBIN

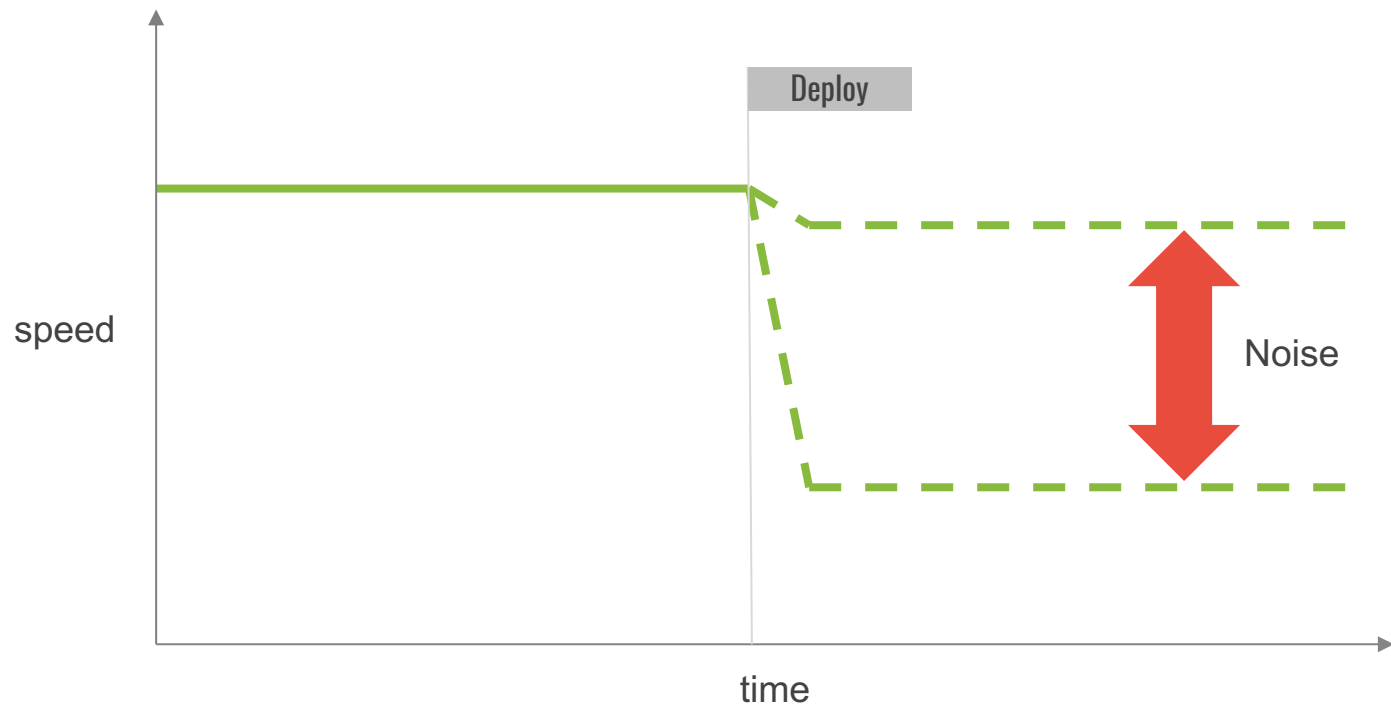


ROBIN



TIM





Visible



Elements

Console

Sources

Network

Performance



top ▼

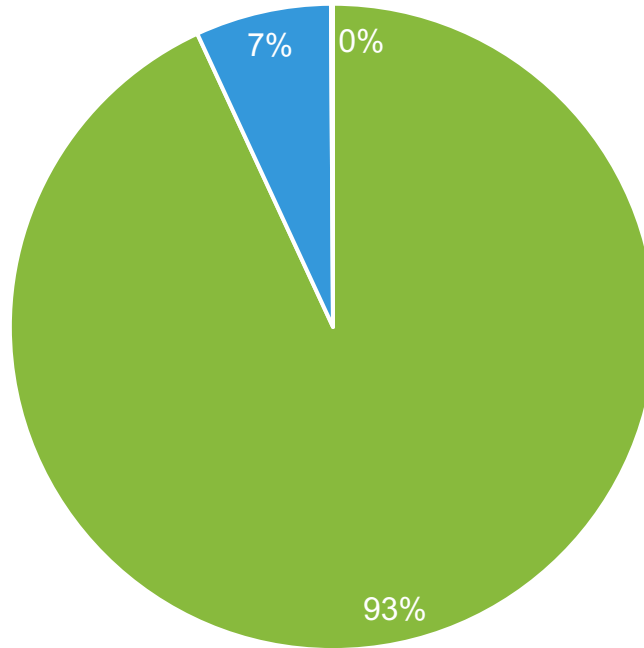


Filter

> document.visibilityState

← 'visible'

Visibility States (MPA)



■ Always Visible ■ Always Hidden ■ Partially Hidden

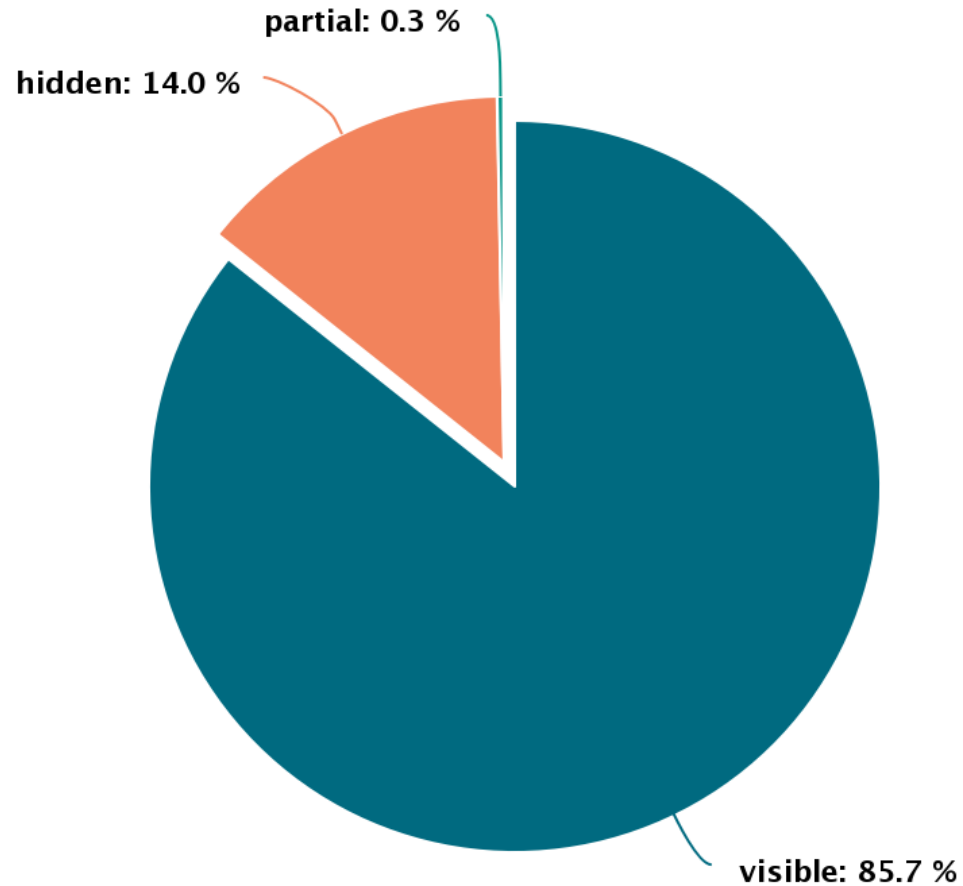
Row	Visibility State	Largest Contentful Paint	
1	Always Visible	4.75 s	93%
2	Always Hidden	8.00 s	7%
3	Partially Hidden	13.20 s	0.1%
Total		4.89 s	

Page Group	(Partially) Hidden Noise
Homepage	10.8%
Search	1.5%
PDP (Kits)	6.2%
PDP (Aftermarket)	10.1%

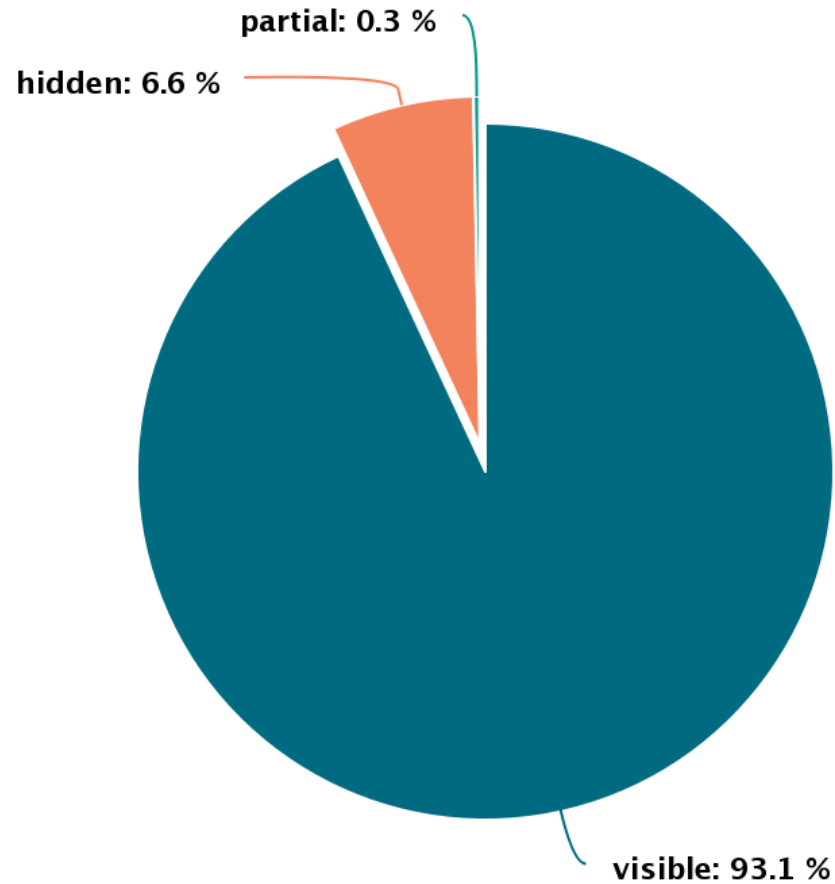
Page Group	(Partially) Hidden Noise	
Homepage	10.8%	
Search	1.5%	Blindspot
PDP (Kits)	6.2%	
PDP (Aftermarket)	10.1%	

Page Group	(Partially) Hidden Noise	
Homepage	10.8%	
Search	1.5%	
PDP (Kits)	6.2%	Hours wasted tuning Database
PDP (Aftermarket)	10.1%	

Visibility States (Mobile)



Visibility States (Desktop)



Measurements (ms)

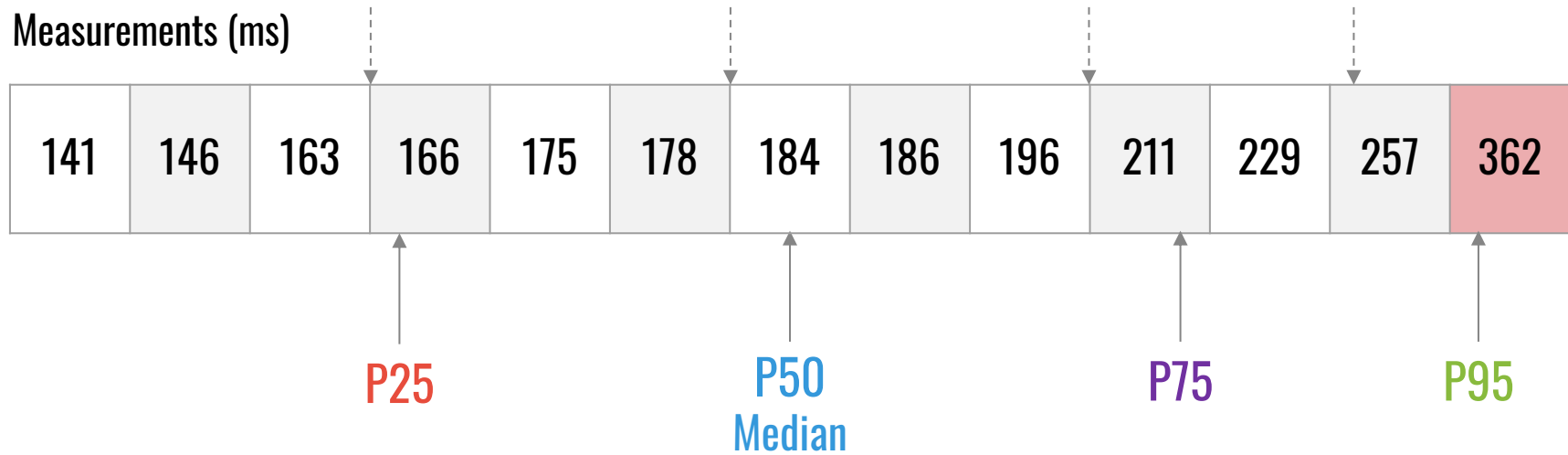
141	146	163	166	175	178	184	186	196	211	229	257
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

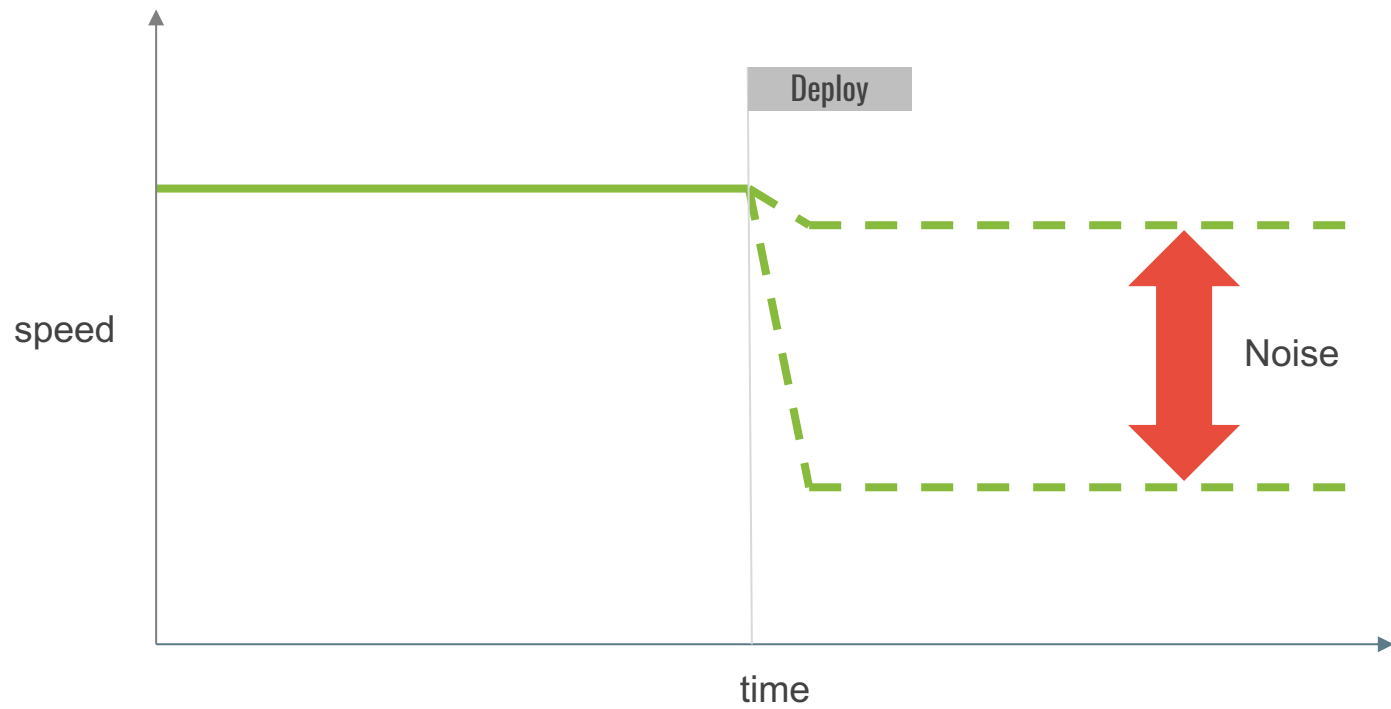
P25

P50
Median

P75

P95





Human

☒ Total crawl requests

12.5M



☐ Total download size (Bytes)

146B



☐ Average response time (ms)

129



Crawl requests

600K

400K

200K

0

2/8/23

2/19/23

3/2/23

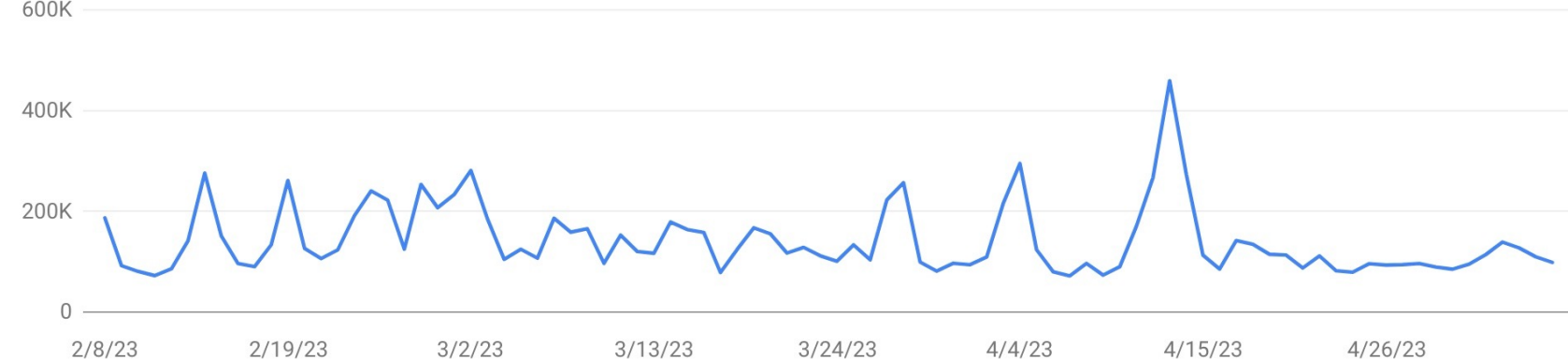
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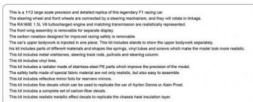


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McLaren MP4/4 1988

RS-004

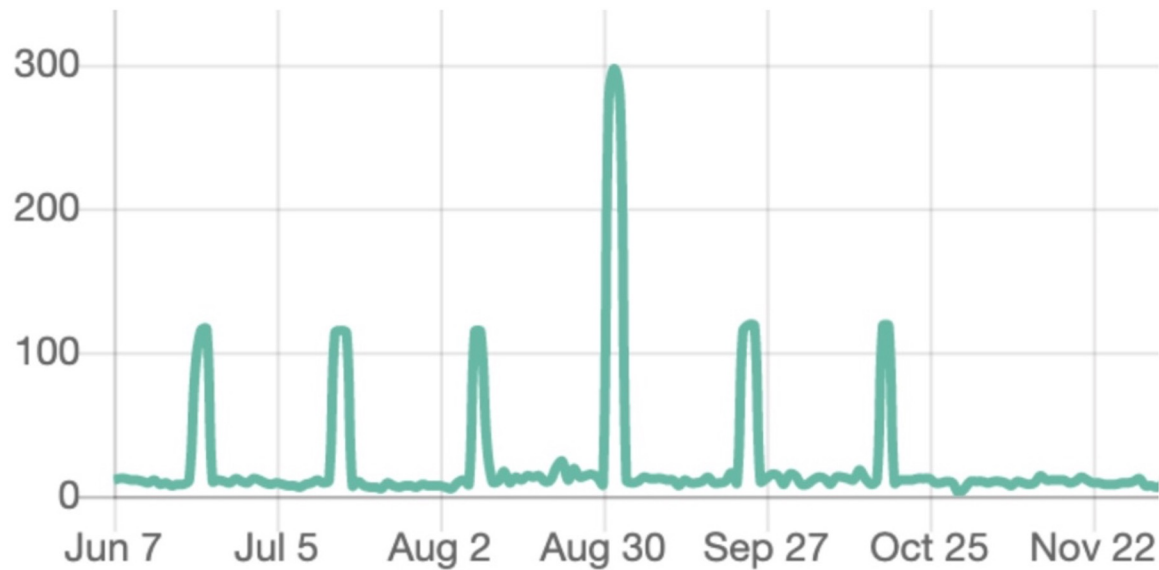
1:12

Full kit

2023 New tool

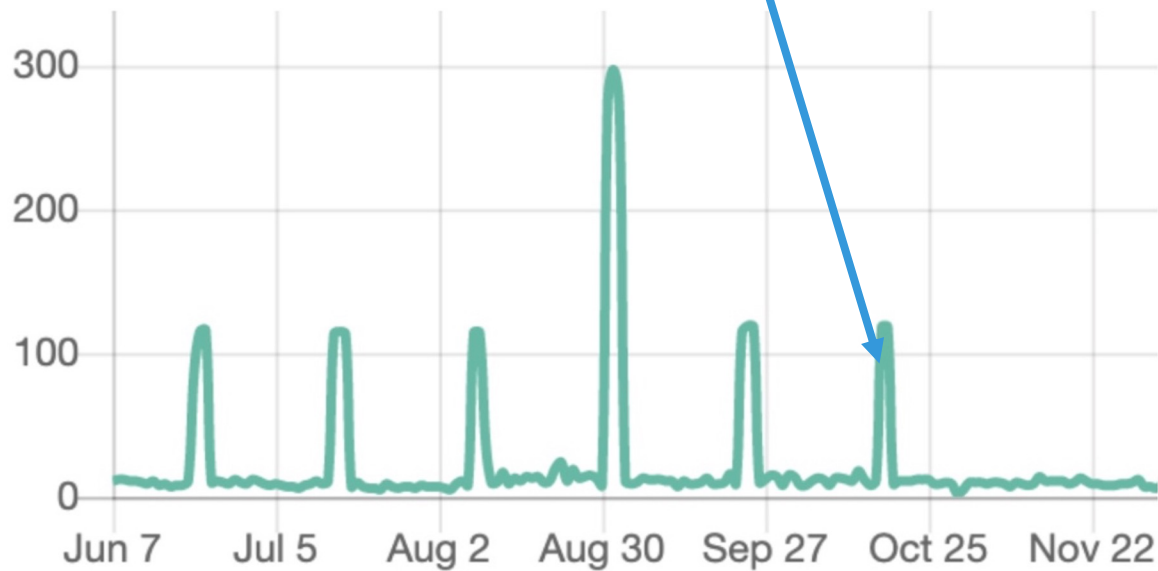
4897038553747 (EAN)

McLaren MP4/4 » Cars (Vehicles)



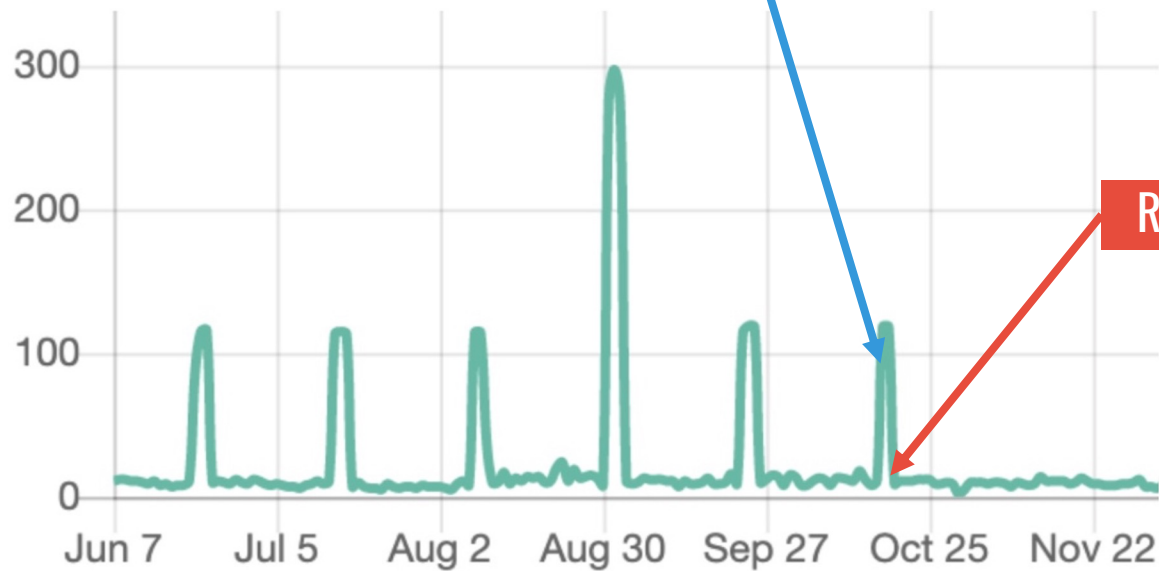
CLS Spikes due to Bot(s)

Grey's Anatomy
Season 36-ish



CLS Spikes due to Bot(s)

Grey's Anatomy
Season 36-ish

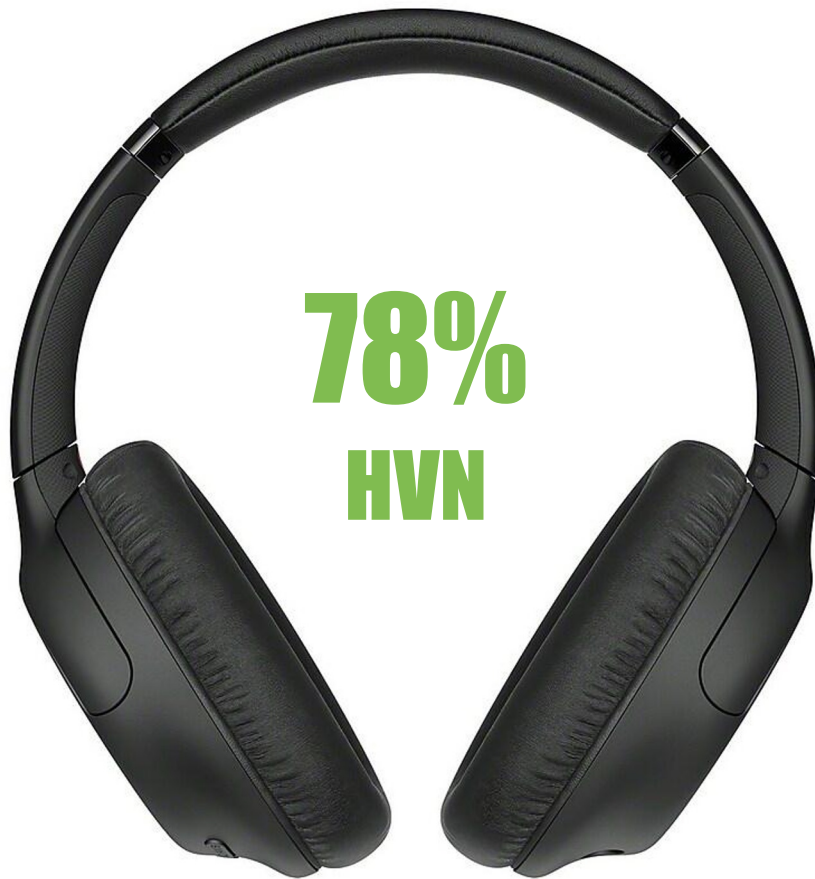


Rollback 😞

CLS Spikes due to Bot(s)

15%
noise

Navigation type:
Back-Forward, Reload



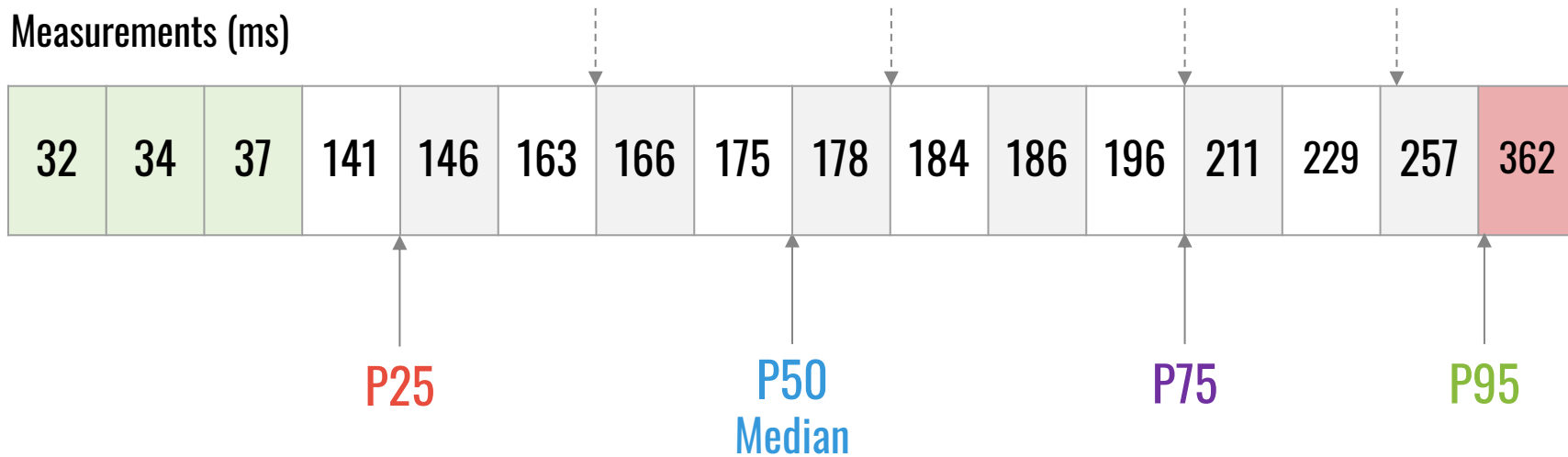
1%
noise

Bot Type:
Any non-human

6%
noise

Visibility-State:
Always & Partially Hidden

Measurements (ms)



“Irrelevant Data”





15%
signal

Navigation type:
Back-Forward, Reload

78%
noise

1%
signal

Bot Type:
Any non-human

6%
signal

Visibility-State:
Always & Partially Hidden



@TimVereecke



@TimVereecke