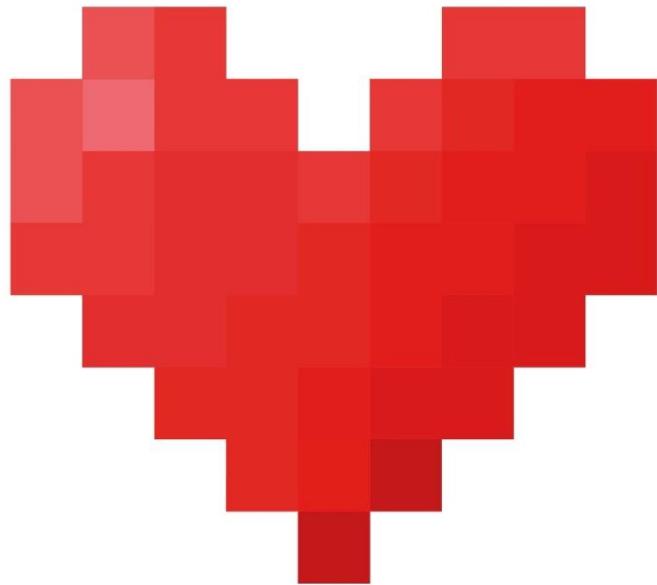


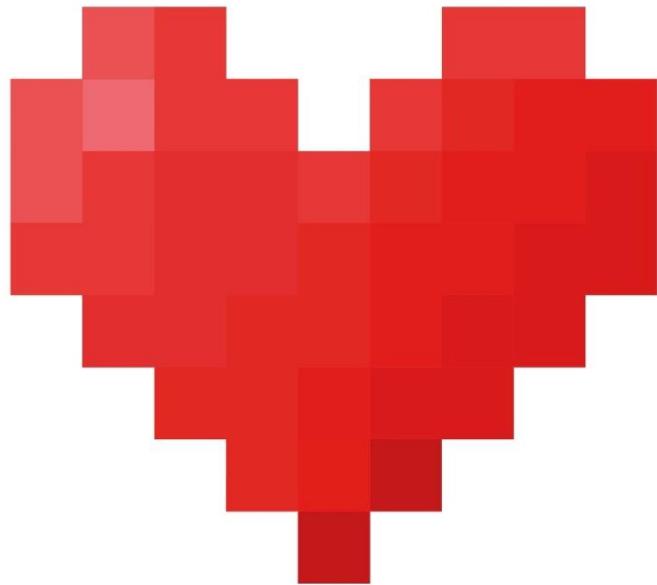
Pushing #WebPerf Limits



@TimVereecke



WE LOVE SPEED



WE (REALLY) LOVE SPEED

1001
HOBBIES

1:48

Shop now

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

[View](#) [Model Kit](#) [Modellbausatz](#) [Modello a Montare](#) [Modelo a montar](#) [Modellmodell](#) [Máscotte para Montar](#) [Plastikový model](#) [Plastimodeli](#) [Makett](#) [Modellbyggesett](#) [Zivnogodstveni model](#)[Login](#) [Register](#)

95.000+ plastic modelers use us

New releases (Helicopters in 1:48)

[View more »](#)

48-101 Sea King uplift kit #1

Tail rotor, (5 or 6-bladed)
Weighted wheels
S23AB • PGP, @ our FB page

*Telling the Sea King story... properly.*

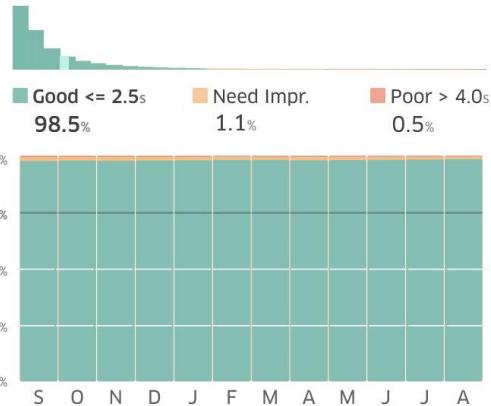
Facts

Brand:	Airfix
Title:	Westland Sea King HAS.1/HAS.5/HU.5
Number:	A11006
Scale:	1:48

[Hot kits \(Helicopters in 1:48\)](#)

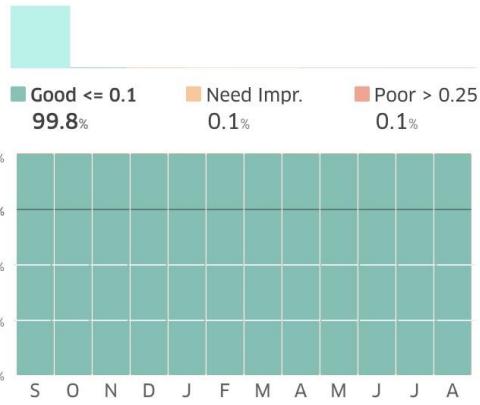
● Largest Contentful Paint [cWV](#) ⓘ

0.6
s



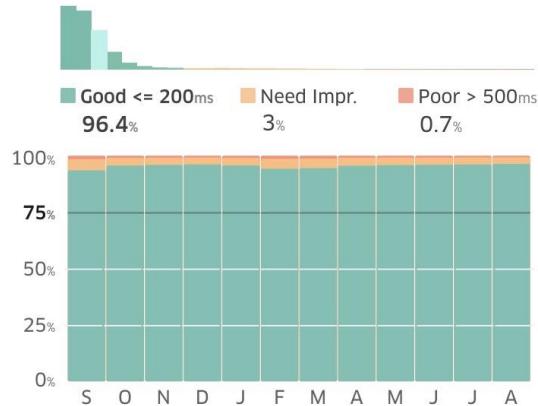
● Cumulative Layout Shift [cWV](#) ⓘ

0



● Interaction to Next Paint [cWV](#) ⓘ

50
ms



Why bother?



CORE WEB VITALS

75%
GOOD

GOOD ENOUGH?

75%
GOOD

GOOD ENOUGH?



75%
GOOD

SEO: Yes!

GOOD ENOUGH?



SEO: Yes!

UX: Nooooo!

How to get here?



How to get here?



95%

A horizontal progress bar consisting of a long green rectangular bar and a shorter black rectangular bar to its right. The text "95%" is centered within the green bar.

How to get here?

98%

How to get here?



99%

**1.
COMMON
PRACTICES**

**2.
DESIGN
CHOICES**

**3.
FRESH
TECHNIQUES**

**1.
COMMON
PRACTICES**

**2.
DESIGN
CHOICES**

**3.
FRESH
TECHNIQUES**

1. COMMON PRACTICES

103 Early Hints

fetchpriority=high

Long max-age

TLS 1.3

CDN

Tuned DB

Minification

Preload fonts

Keep-alive

Loading=lazy

AVIF/WEBP

No document.write()

Fast DNS

preconnect

BfCache

Brotli

H3

Reduce 3rd parties

.woff2

Remove unused ...

Reduce DOM Elements

Reduce JS

Use srcset

...

**1.
COMMON
PRACTICES**



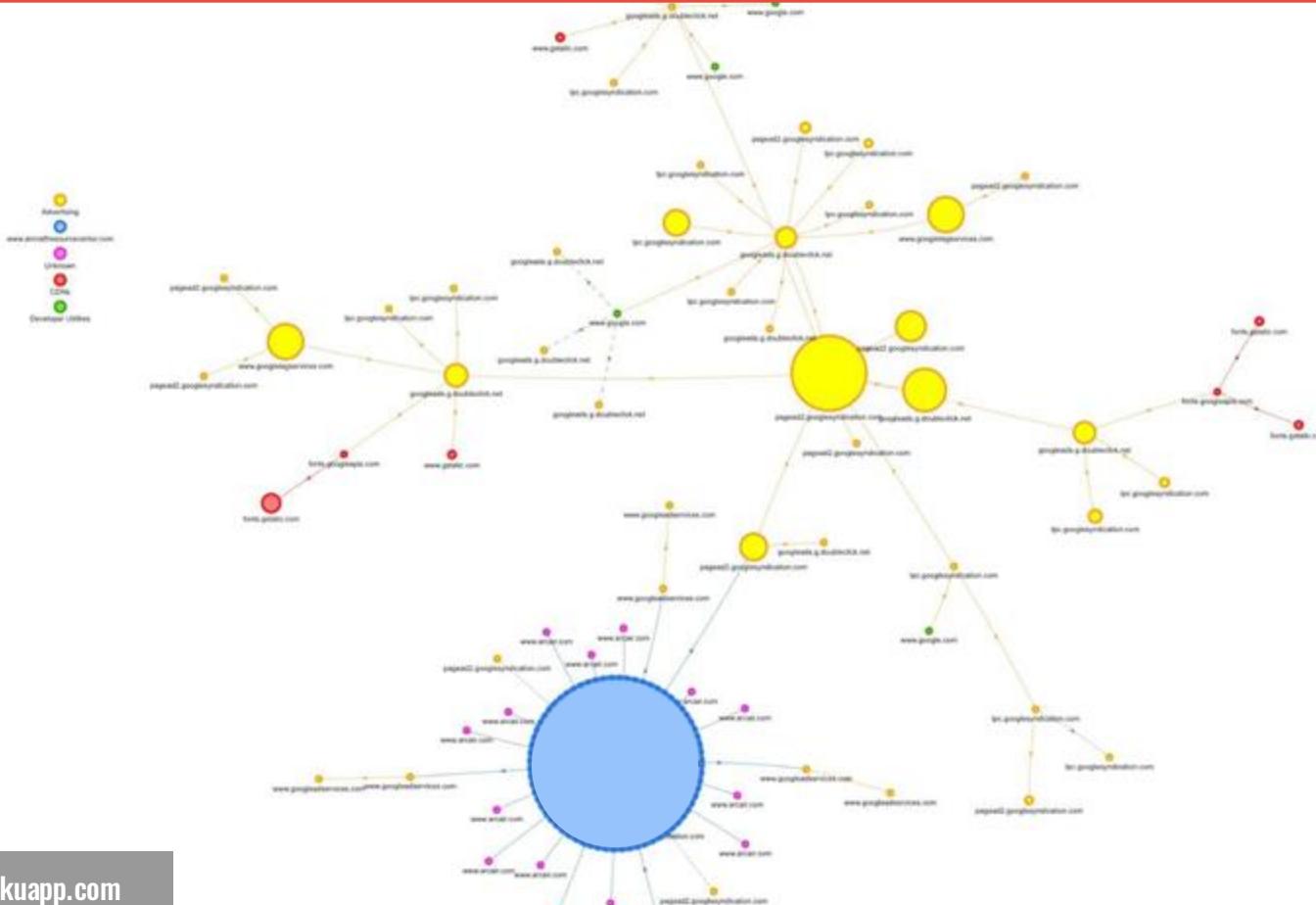
**1.
COMMON
PRACTICES**

**2.
DESIGN
CHOICES**

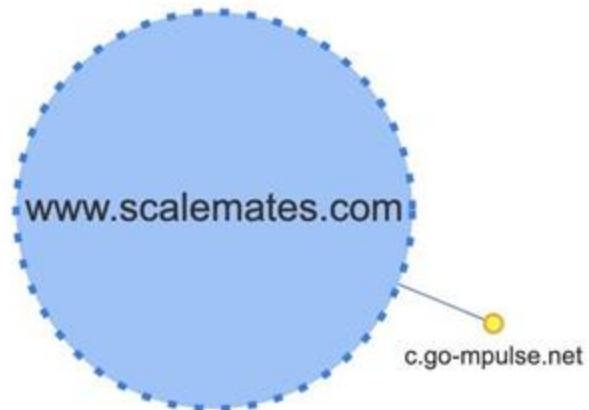
**3.
FRESH
TECHNIQUES**

Pushing the limits
Design Choices

2011



2024



2011



MPA

2024

phP

MPA

Pushing the limits
CLS



CLS



CLS

0.002

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Consolidated B-24H Liberator

Airfix | No. A09010 | 1:72

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1:72 CONSOLIDATED B-24® H LIBERATOR®

A09010 MODEL KIT • MAQUETTE A MONTER • MODELBAUSATZ • MODELLO A SCALA • BOUWMODEL • MAQUETA PARA MONTAR • PLASTYEGGSATS • RAKENNUSSAJA • MODELO PARA CONSTRUIR • MODELBYGGESÄT • ΣΥΝΑΡΜΟΛΟΓΗΜΕΝΟ ΜΟΝΤΑΙΟ

New releases (Propeller in 1:72)



OMG1515A - NZ Warbird Corsair NZ5648 2024 72nd

KOBO KOOLHOVEN F.K. 56



DUTCH TRAINER AIRCRAFT FROM W.W.II



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S | S

10

Event

Up

ates

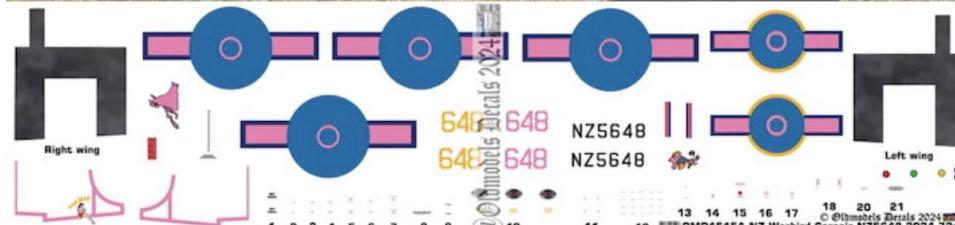


New Zealand Warbird Corsair NZ5648 2024

Oldmodels Decals | No. OMD1515A | 1:72

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9MD1515A - NZ Warbird Corsair NZ5648 2024 72nd

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RISING DECALS

Recommended kit P1Y Hasegawa 1/72 scale



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18.99 EUR



27.99 EUR



31.49 EUR



31.49 EUR

1:72

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B-24H Liberator "PATSY JACK"

Les Barjots de la cyano | No. BC2024-02 | 1:72

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B 24H LIBERATOR 1/48 DECALS "PATSY JACK"



FOR AIRFIX A09010 KIT



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Airfix | No. A09010 | 1:72

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1:72 CONSOLIDATED B-24® H LIBERATOR®

New releases (Propeller in 1:72)



Right wing N25640 N25641
B40 N25640 N25641



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```
html {overflow-y: scroll; scrollbar-gutter: stable}
```

Ad Blockers

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

ARTICLE MODEL KIT • MAQUETTE A MONTER • MODELLBAUSATZ • MODELO A ESCALA • Bausatzmodell • MAQUETA PARA MONTAR • PLASTERTOYSASZT • RAAMIENHOSEK • MODELO PARA CONSTRUIR • MODELLBAUSATZ • ZINAPOMOSTOHEHO MONTEDO

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New releases (Helicopters in 1:48)



Facts

Brand: **Airfix**

Title: **Westland Sea King HAS.1/HAS.5/HU.5**

Number: **A11006**

Scale: **1:48**

Most kits (1:48) are available in 1:32

970x90

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

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New releases (Helicopters in 1:48)



300x250

Facts

Brand: Airfix

Title: Westland Sea King HAS.1/HAS.5/HU.5

Number: A11006

Scale: 1:48

More kits (Helicopters in 1:48)

```
▼<ins id="revive-0-3" class="bannerAd" data-revive-zoneid="3">
  ►<a href="https://www.scalemates.com/sas/www/delivery/ck.php?oaparams=2
    e%2Fmug_too_many_stash_club-256181189730508230" target="_blank">...</a>
</ins>
```

```
<style>
  .bannerAd{width:300px; height:250px}
</style>
```

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

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New releases (Helicopters in 1:48)



Facts

Brand: **Airfix**Title: **Westland Sea King HAS.1/HAS.5/HU.5**Number: **A11006**Scale: **1:48**

More kits (Helicopters in 1:48)

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

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Facts

Brand:	Airfix
Title:	Westland Sea King HAS.1/HAS.5/HU.5
Number:	A11006
Scale:	1:48
Type:	Full kit
Released:	2023 New tool
Barcode:	5063129001018 (EAN)

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New releases (Helicopters in 1:48)



Hot kits (Helicopters in 1:48)





Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48

1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

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Facts

Brand:	Airfix
Title:	Westland Sea King HAS.1/HAS.5/HU.5
Number:	A11006
Scale:	1:48
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New releases (Helicopters in 1:48)



Hot kits (Helicopters in 1:48)



```
▼ <section class="av">
  ▼ <ins id="revive-0-3" class="bannerAd" data-revive-zoneid="3">
    ▶ <a href="https://www.scalemates.com/sas/www/delivery/ck.php?oaparams=2
      e%2Fmug_too_many_stash_club-256181189730508230" target="_blank">...</a>
    </ins>
  </section>
```

Extra Wrapper

```
▼<section class="av">
  ▼<ins id="revive-0-3" class="bannerAd" data-revive-zoneid="3">
    ▶<a href="https://www.scalemates.com/sas/www/delivery/ck.php?oaparams=2
      e%2Fmug_too_many_stash_club-256181189730508230" target="_blank">...</a>
    </ins>
  </section>
```

```
<style>
  .av{width:300px ;height:250px}
</style>
```

Extra Wrapper

```
▼<section class="av">  
  </section>
```

```
<style>  
  .av{width:300px ;height:250px}  
</style>
```

HTML Streaming

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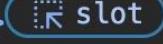
✓ All sections
Kits
» Reviews
» Inst

```
<!DOCTYPE html>
<html lang="en">
  ><head> ...
  ></head>
  ><body class="bgl">
    ><header id="hdr" class="bx dg right p8 ut"> grid
      ><a href="/?l=1" class="h0 db pr" id="lc"> ...
      ><form class="hrspb" action="/search.php?l=1">
        ><nav id="ub"> ...
        ><select name="fkSECTION[]" class="fsh p5 bgd" aria-label="Section">
          <option value="All">All sections</option> slot
          <option value="Kits">Kits</option> slot
          <option value="Reviews">» Reviews</option> slot
          <option value="Instructions">» Inst</option> slot
```

```
<body class="bgl">
```

```
<option value="Instructions">> Inst</option> 
```

```
<body class=bgl>
```

```
<option value="Instructions">> Instru</option> 
```

✓ All sections
Kits
» Reviews
» Inst

```
<!DOCTYPE html>
<html lang="en">
  ><head> ...
  ></head>
  ><body class="bgl">
    ><header id="hdr" class="bx dg right p8 ut"> grid
      ><a href="/?l=1" class="h0 db pr" id="lc"> ...
      ><form class="hrspb" action="/search.php?l=1">
        ><nav id="ub"> ...
        ><select name="fkSECTION[]" class="fsh p5 bgd" aria-label="Section">
          <option value="All">All sections</option> slot
          <option value="Kits">Kits</option> slot
          <option value="Reviews">» Reviews</option> slot
          <option value="Instructions">» Inst</option> slot
```

COMING UP NEXT



Harry Roberts

Get Your Head Straight



0:01 / 45:45



Get Your Head Straight with HARRY ROBERTS - SmashingConf San Francisco 2022



Smashing Magazine

6.39K subscribers

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...

21 lines, 2484 bytes

```
<link rel="alternate" hreflang="cs" href="https://www.scalemates.com/cs/kits/tamiya-24345-mercedes-amg-gt3--1093631">
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<link rel="alternate" hreflang="it" href="https://www.scalemates.com/it/kits/tamiya-24345-mercedes-amg-gt3--1093631">
<link rel="alternate" hreflang="hu" href="https://www.scalemates.com/hu/kits/tamiya-24345-mercedes-amg-gt3--1093631">
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<link rel="alternate" hreflang="pl" href="https://www.scalemates.com/pl/kits/tamiya-24345-mercedes-amg-gt3--1093631">
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<link rel="alternate" hreflang="uk" href="https://www.scalemates.com/uk/kits/tamiya-24345-mercedes-amg-gt3--1093631">
<link rel="alternate" hreflang="ja" href="https://www.scalemates.com/ja/kits/tamiya-24345-mercedes-amg-gt3--1093631">
<link rel="alternate" hreflang="zh" href="https://www.scalemates.com/zh/kits/tamiya-24345-mercedes-amg-gt3--1093631">
<link rel="alternate" hreflang="x-default" href="https://www.scalemates.com/en/kits/tamiya-24345-mercedes-amg-gt3--1093631">
```

Google Search Console

```
▼ <url>
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  <lastmod>2024-08-14T11:46:59+01:00</lastmod>
  <changefreq>weekly</changefreq>
  <priority>0.9</priority>
  <xhtml:link rel="alternate" hreflang="cs" href="https://www.scalemates.com/cs/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="de" href="https://www.scalemates.com/de/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="en" href="https://www.scalemates.com/en/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="es" href="https://www.scalemates.com/es/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="fr" href="https://www.scalemates.com/fr/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="it" href="https://www.scalemates.com/it/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="hu" href="https://www.scalemates.com/hu/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="nl" href="https://www.scalemates.com/nl/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="no" href="https://www.scalemates.com/no/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="pl" href="https://www.scalemates.com/pl/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="pt" href="https://www.scalemates.com/pt/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="ru" href="https://www.scalemates.com/ru/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="sv" href="https://www.scalemates.com/sv/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="tr" href="https://www.scalemates.com/tr/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="bg" href="https://www.scalemates.com/bg/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="sr" href="https://www.scalemates.com/sr/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="uk" href="https://www.scalemates.com/uk/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="ja" href="https://www.scalemates.com/ja/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
  <xhtml:link rel="alternate" hreflang="zh" href="https://www.scalemates.com/zh/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
</url>
```

9 lines, 1009 bytes

```
<meta name="description" property="og:description" content="Tamiya model kit in scale 1:24, 24345 is a NEW tool released in 2017 | Scalemates, Reviews, History + Marketplace | Mercedes-AMG GT3 | EAN: 4950344243457">
<meta property="og:title" content="Mercedes-AMG GT3, Tamiya 24345 (2017)">
<meta property="og:type" content="website">
<meta property="og:image" content="https://www.scalemates.com/products/img/6/3/1/1093631-21625-29-pristine.jpg?impolicy=og-image">
<meta name="twitter:card" content="summary_large_image">
<meta property="twitter:title" content="Mercedes-AMG GT3, Tamiya 24345 (2017)">
<meta property="twitter:description" content="Tamiya model kit in scale 1:24, 24345 is a NEW tool released in 2017 | ... | EAN: 4950344243457">
<meta property="twitter:site" content="@ScalematesTim">
<meta property="twitter:url" content="https://www.scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631">
```

Logged in User

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>Mercedes-AMG GT3, Tamiya 24345 (2017)</title>
    <link rel="preload" href="/s/g.woff2" as="font" type="font/woff2" crossorigin>
    ▶ <style>...</style>
    ▶ <script>...</script>
    <link rel="expect" href="#h" blocking="render">
  </head>
```

<link rel=expect href=... blocking=render >

```
<!DOCTYPE html>
<html lang="en">
  ▼ <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>...</title>
    ► <style>...</style>
    ► <script>...</script>
...
    <link rel="expect" href="#top" blocking="render"> == $0
  </head>
  ▼ <body>
    ► <header id="top" class="z dg right p8 ut">...</header> (grid)
    ► <nav id="menu" class="z bgd pr">...</nav>
    ► <section id="rt241" class="lbt c cc hb p8">...</section>
    ► <article id="c" class="z pr">...</article>
    ► <footer id="f" class="c bgg">...</footer>
    ► <script type="speculationrules">...</script>
  </body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
  ▼ <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>...</title>
    ► <style>...</style>
    ► <script>...</script>
...
  <link rel="expect" href="#top" blocking="render"> == $0
</head>
  ▼ <body>
    ► <header id="top" class="z dg right p8 ut">...</header> (grid)
    ► <nav id="menu" class="z bgd pr">...</nav>
    ► <section id="rt241" class="lbt c cc hb p8">...</section>
    ► <article id="c" class="z pr">...</article>
    ► <footer id="f" class="c bgg">...</footer>
    ► <script type="speculationrules">...</script>
  </body>
</html>
```

Chrome 124 (experimental)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>...</title>
    ▶ <style>...</style>
    ▶ <script>...</script>
...
    <link rel="expect" href="#top" blocking="render"> == $0
  </head>
  <body>
    ▶ <header id="top" class="z dg right p8 ut">...</header> (grid)
    ▶ <nav id="menu" class="z bgd pr">...</nav>
    ▶ <section id="rt241" class="lbt c cc hb p8">...</section>
    ▶ <article id="c" class="z pr">...</article>
    ▶ <footer id="f" class="c bgg">...</footer>
    ▶ <script type="speculationrules">...</script>
  </body>
</html>
```





CLS Frequency

**% of pageviews
with any layout shift**



CLS Frequency

#AimForZero

Wild Wild Web

Row	Browser	Cumulative Layout Shift Score	Beacons Bar	Red Beacons	Red Beacon Percent
1	▼ Edge	0.00	<div style="width: 731px;"><div style="width: 10px; background-color: #d9534f;"></div></div>	89	12.18%
	Edge/85	0.49	<div style="width: 111px;"><div style="width: 10px; background-color: #d9534f;"></div></div>	89	80.18%
	Edge/89	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/98	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/90	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/92	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/87	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/117	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/95	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/97	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Edge/18	0.00	<div style="width: 0px;"><div style="width: 0px; background-color: #d9534f;"></div></div>	0	0.00%
	Other - Edge	0.00	<div style="width: 620px;"><div style="width: 10px; background-color: #d9534f;"></div></div>	0	0.00%
Total		0.00	<div style="width: 731px;"><div style="width: 10px; background-color: #d9534f;"></div></div>	89	12.18%

Pushing the limits
LCP



LCP

scalemates

Kits

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

AIRFIX
ROYAL NAVY 44

Facts

scalemates

Kits

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

AIRFIX
ROYAL NAVY 44

Facts

Brand: Airfix
Title: Westland Sea King HAS.1/HAS.5/HU.5
Number: A11006
Scale: 1:48
Type: Full kit
Released: 2023 New tool
Barcode: 5063129001018 (EAN)

scalemates

News Feed Kits Forum Books Magazines Brands Shops Events Updates

1901 Hobbies

1:48 Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

AIRFIX
ROYAL NAVY 44

Facts

Brand: Airfix
Title: Westland Sea King HAS.1/HAS.5/HU.5
Number: A11006
Scale: 1:48

Login **Register**

New releases (instruments to 1:48)

- AH-64 Apache
- T-34
- AV-8B Harrier II
- Sikorsky S-61 - Helicopters (Aircraft)

View more

AH-64 Sea King update kit #1

Kit code: 5063129001018
 Weight: 1kg
 Scale: 1:48
 Pages: 10

1:48 Westland Sea King HAS.1/HAS.5/HU.5

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```

CDN Efficiency



Dimensions	Edge Hits
2160px	965
1440px	3561
1080px	6203
720px	9011
540px	323
360px	153

CDN Efficiency



Dimensions	Edge Hits
2160px	965
1440px	3561
1080px	6203
720px	9011
540px	323
360px	153

CDN Efficiency

```
<picture>
  <source media="(min-width:1440px)" srcset="1080.jpg 1x, 1440.jpg 1.5x, 2160.jpg 2x">
  <source media="(min-width:700px)" srcset="720.jpg 1x, 1080.jpg 1.5x, 1440.jpg 2x">
  <source media="(min-width:500px)" srcset="540.jpg 1x, 720.jpg 1.5x, 1080.jpg 2x">
  <source media="(max-width:500px)" srcset="360.jpg 1x, 540.jpg 1.5x, 720.jpg 2x">
  <img fetchpriority=high src=720.jpg ...>
</picture>
```



CDN Efficiency

No DPR Capping

Viewport
360px
DPR
4x



```
<img srcset="540.jpg 540w, 720.jpg 720w, 1080.jpg 1080w, 1440.jpg 1440w, 2160.jpg 2160w ...>
```

No DPR Capping

Wrong LCP Candidates



RES/KIT

ACCESSORIES
FOR SCALE PLASTIC KITS

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



1:48 WESTLAND SEA KING HAS.1/HAS.5/HU.5

[MODEL KIT](#) • [BAUBLE & MUNTER](#) • [BIOGLASSARO](#) • [BRONZE](#) • [CASA](#) • [DEMONSTRATION](#) • [MAQUETTE TAKARA MORIYA](#) • [PLASTICARTS](#) • [RUMBLEPIECE](#) • [WINGSPAN](#) • [WINGSPAN STUDIO](#) • [ZIMMERBERG](#)[Login](#) [Register](#)

95.000+ plastic modelers use us

New releases (Helicopters in 1:48)

[View more »](#)

48-161 Sea King uplift kit #1

Full color, clear & black.
Weighted wheels
\$234.00 - P47.00 on the page

[Telling the Sea King story properly](#)

Hot kits (Helicopters in 1:48)



Facts

Brand:	Airfix
Title:	Westland Sea King HAS.1/HAS.5/HU.5
Number:	A11006
Scale:	1:48
Type:	Full kit
Released:	2023 New York
Barcode:	5063129001018 (EAN)
Packaging:	Rigid box (Top opener)
Topic:	Sikorsky S-61 • Helicopters (Aircraft)

Markings



Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48

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New releases (Helicopters in 1:48)

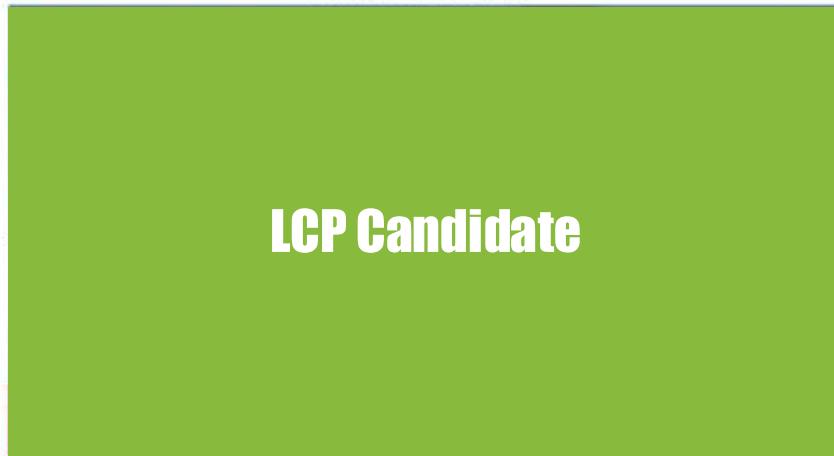
[View more >](#)

48-101 Sea King split kit #1

Full color, clear & metal.
Weighted wheels
S2348 • P47 • see fit page



Hot kits (Helicopters in 1:48)



LCP Candidate

Facts

Brand:	Airfix
Title:	Westland Sea King HAS.1/HAS.5/HU.5
Number:	A11006
Scale:	1:48
Type:	Full kit
Released:	2013 New York
Barcode:	5063129001018 (EAN)
Packaging:	Rigid box (Top opener)
Topic:	Sikorsky S-61 + Helicopters (Aircraft)

Markings



Porsche 911 GT3 RS

Alpha Model | No. AM02-0037 | 1:24

PORSCHE 911 GT3 RS(2016)

1/24 Scale Plastic Model Kit
AM02-0037



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New releases (Cars in 1:24)



[View more >](#)



A NEW CONCEPT IN THE ART OF MODELLING

Hot kits (Cars in 1:24)



Facts

Brand:	Alpha Model
Title:	Porsche 911 GT3 RS
Number:	AM02-0037
Scale:	1:24
Type:	Full kit
Released:	2022 New tool
Topic:	Porsche 911 (991) • Cars (Vehicles)

Product timeline



Marketplace

Online shops

gpmodeling

€ 0.00

€ 198.00

LCP Candidate

Porsche 911 GT3 RS

Alpha Model | No. AM02-0037 | 1:24

PORSCHE 911 GT3 RS(2016)

1/24 Scale Full Detail Kit

AM02-0037

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New releases (Cars in 1:24)

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A NEW CONCEPT IN THE ART OF MODELLING

Hot kits (Cars in 1:24)



Facts

Brand:	Alpha Model
Title:	Porsche 911 GT3 RS
Number:	AM02-0037
Scale:	1:24
Type:	Full kit
Released:	2022 New tool
Topic:	Porsche 911 (991) • Cars (Vehicles)

Product timeline



Marketplace

Online shops

gpmodeling

€ 0.00

€ 198.00



Shop now

Porsche 911 GT3 RS

Alpha Model | No. AM02-0037 | 1:24

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95.000+ plastic modelers use us

PORSCHE 911 GT3 RS(2016)

1/24 Scale Full Detail Kit
AM02-0037

New releases (Cars in 1:24)

[View more >](#)

Plan A: Send more bytes

Fast Fallback Banner

Porsche 911 GT3 RS

Alpha Model | No. AM02-0037 | 1:24



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95.000+ plastic modelers use us

New releases (Cars in 1:24)



[View more >](#)



Facts

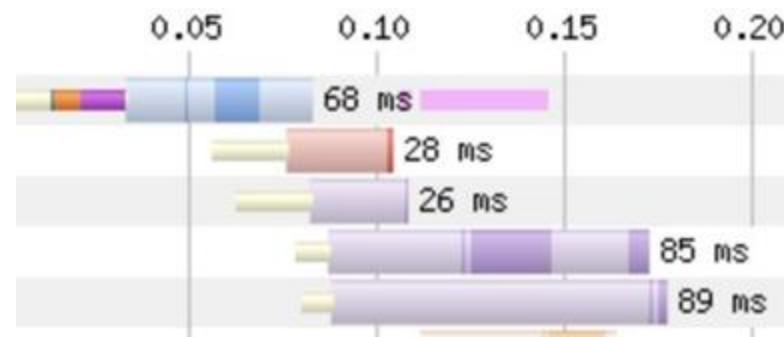
Brand:	Alpha Model
Title:	Porsche 911 GT3 RS
Number:	AM02-0037
Scale:	1:24
Type:	Full kit
Released:	2022 New tool
Topic:	Porsche 911 (991) + Cars (Vehicles)

Product timeline



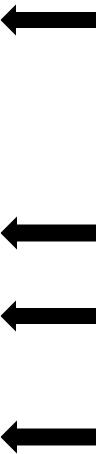
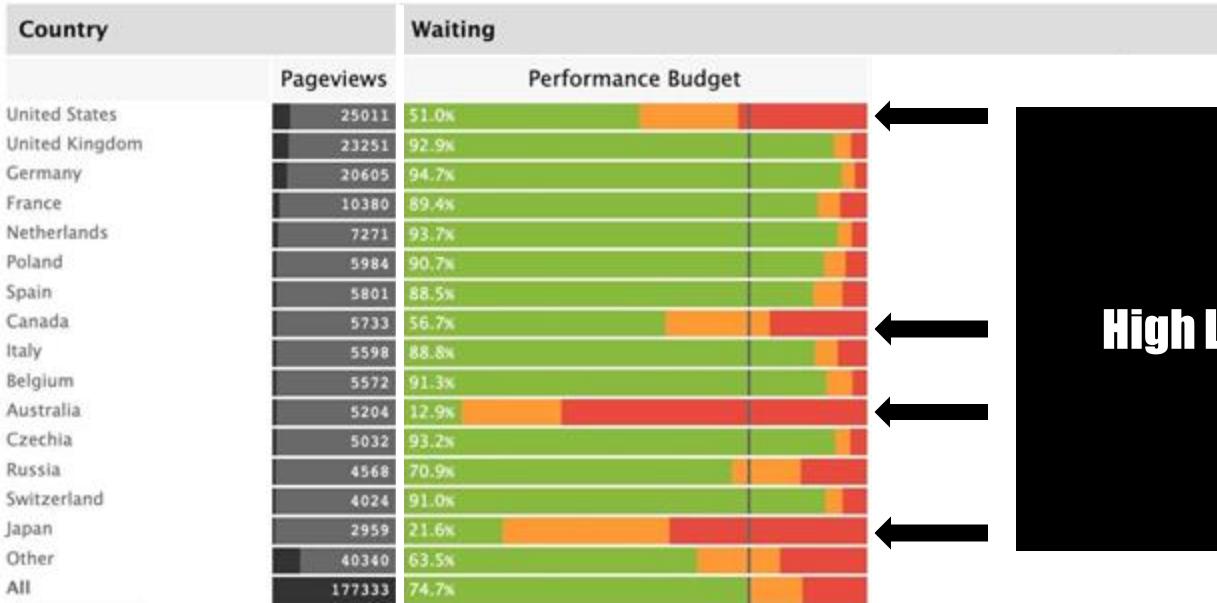
Plan B: Fast Fallback Banner

**Early discovered **



Plan B: Fast Fallback Banner

Beating Latency



High Latency

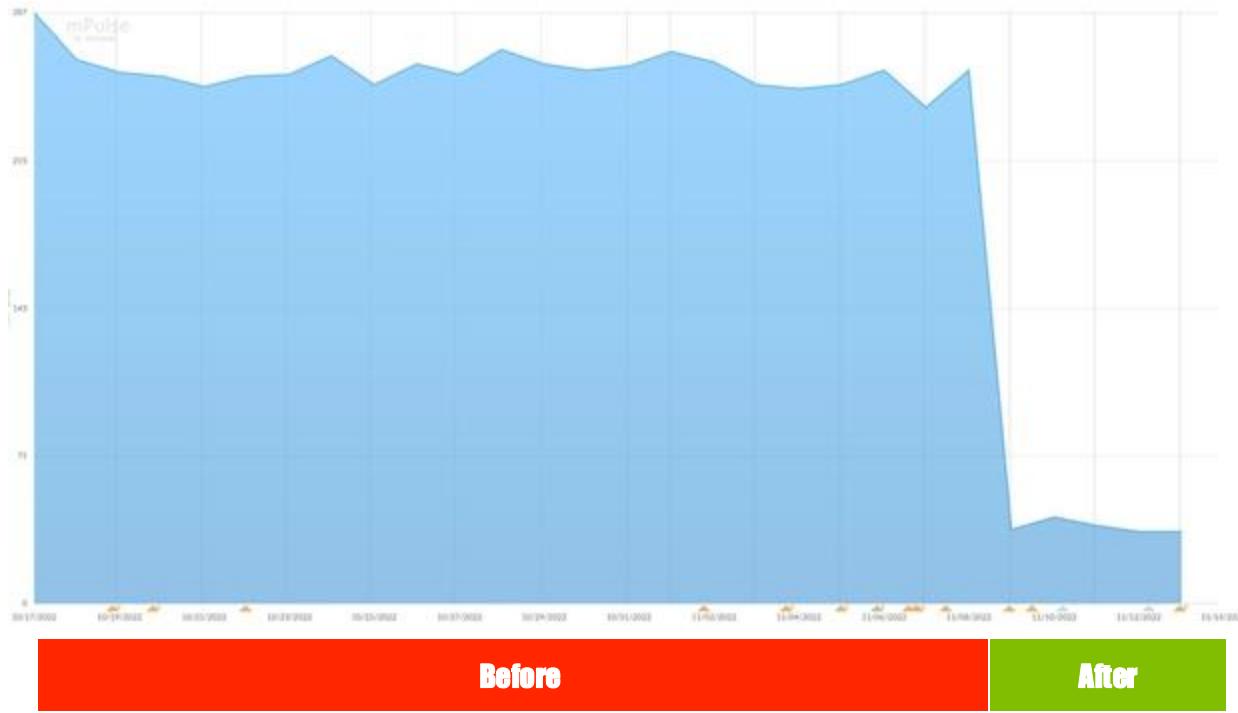


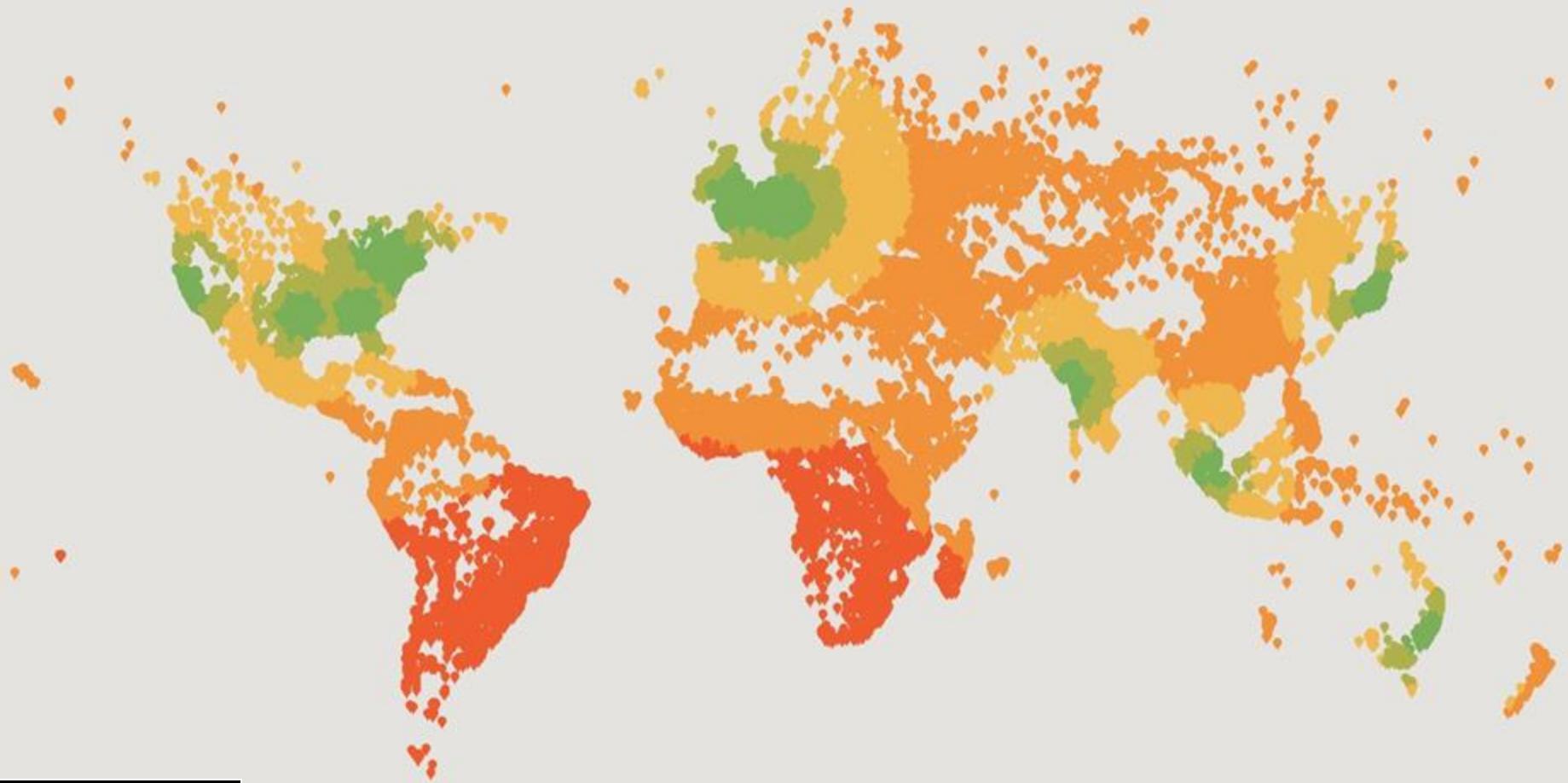


Old School

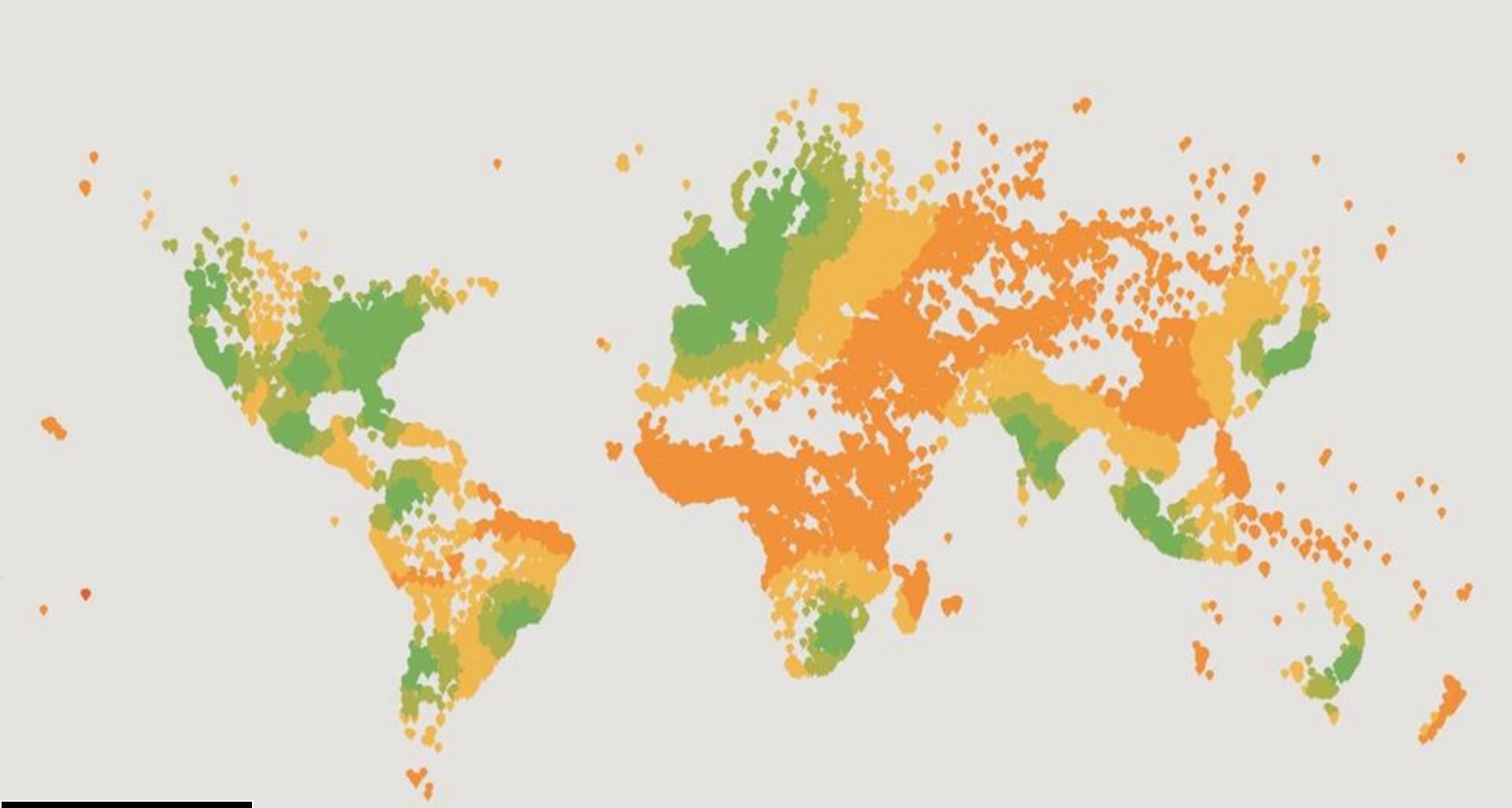


Replication Test

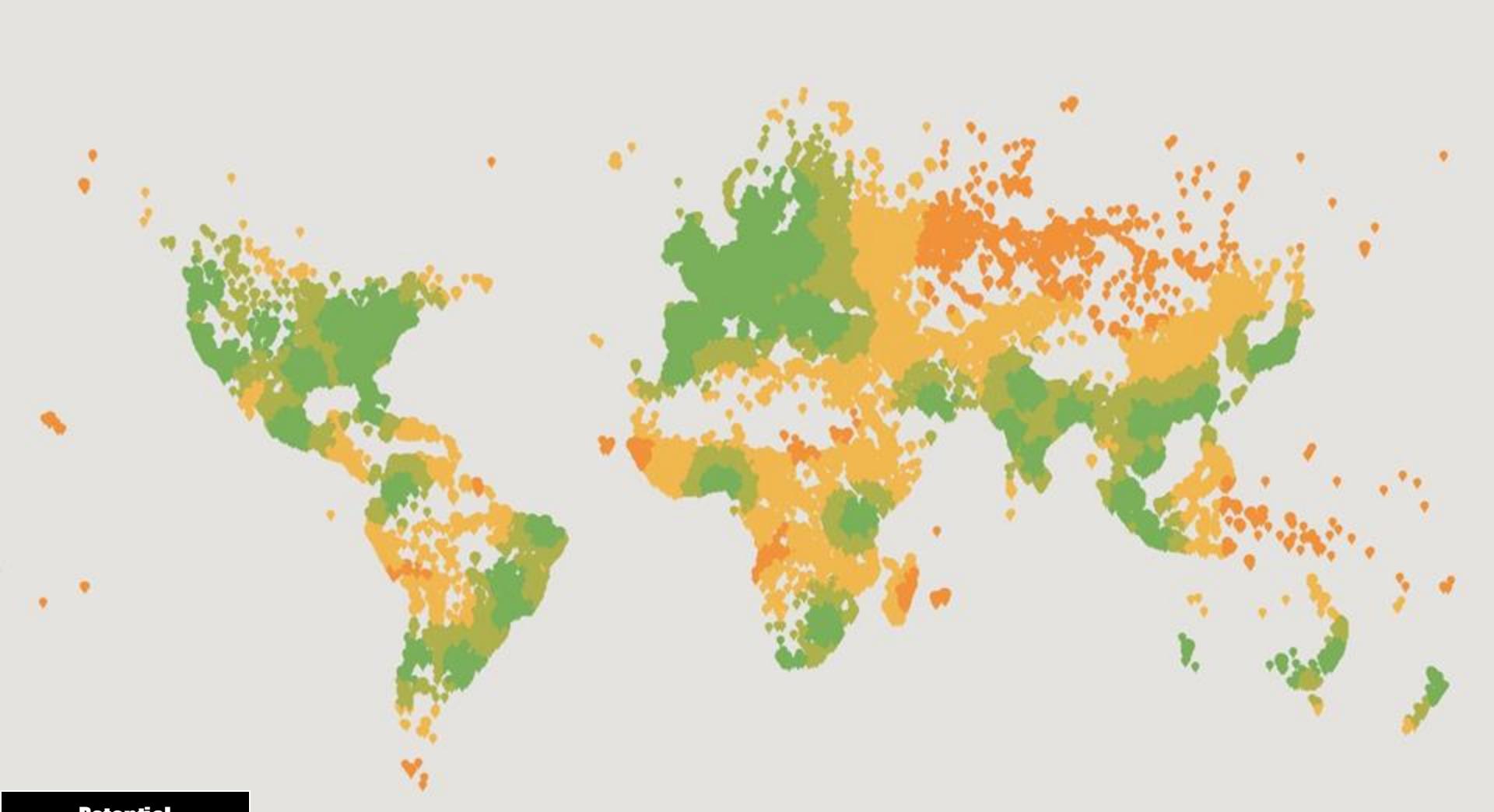




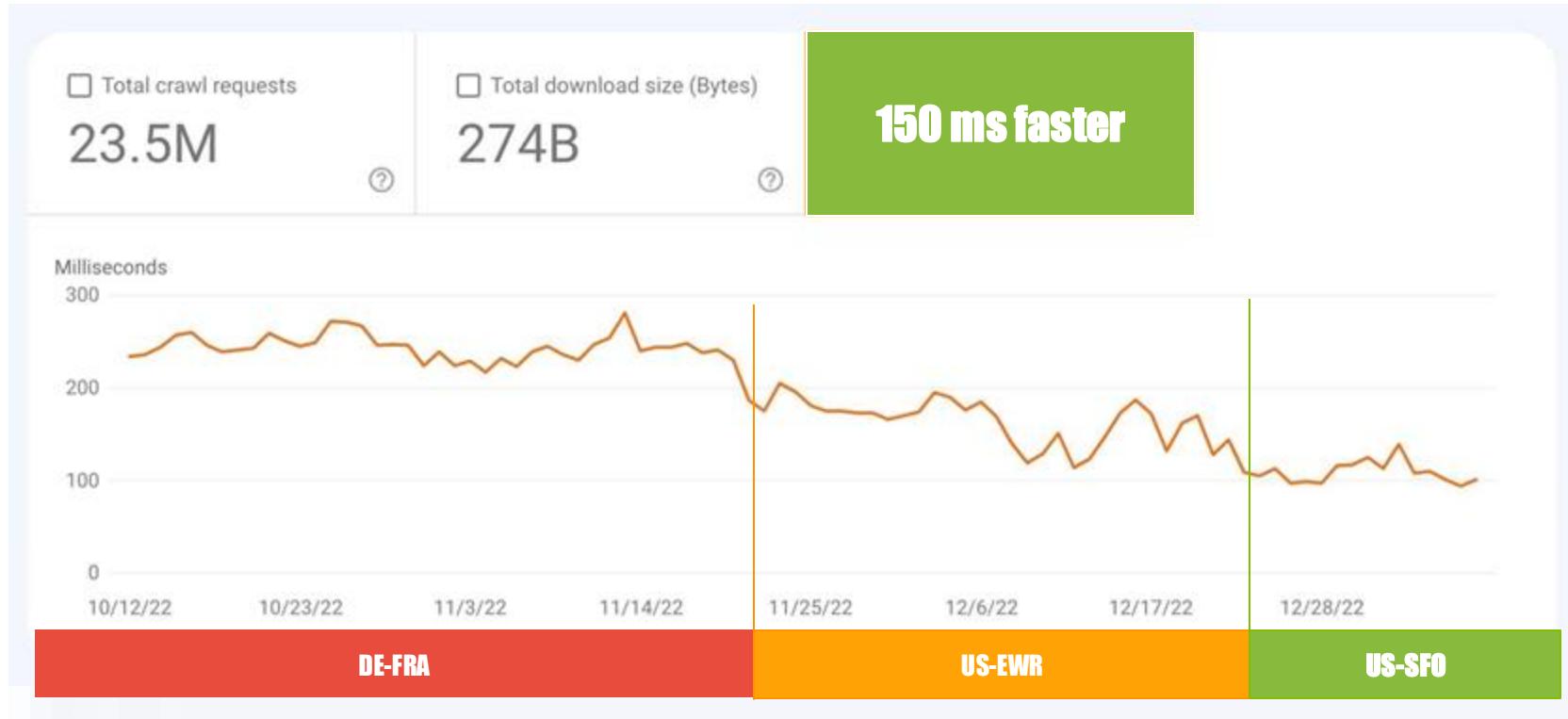
Q1 2023



Today



Potential



Search Facets Performance

▼ Scale (60)

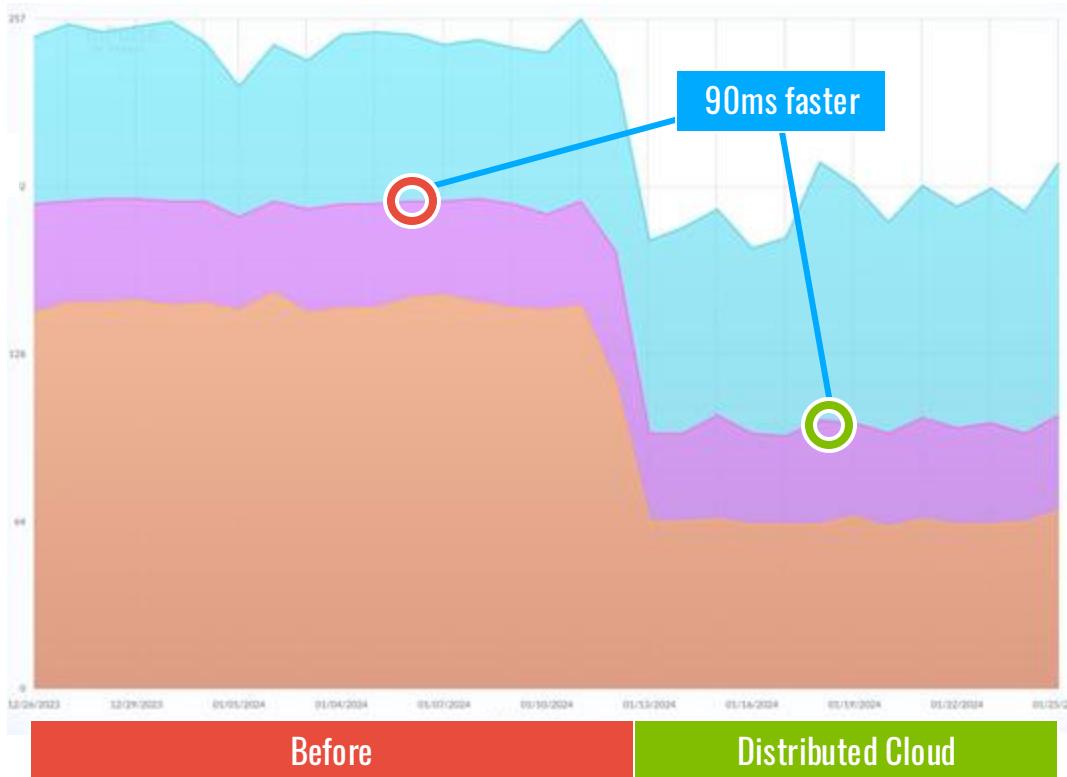
- 1:72 (171186)
- 1:48 (121042)
- 1:35 (113110)
- 1:43 (50344)
- 1:24 (47510)
- 1:32 (45394)

▼ Brand (75)

- Eduard (11477)
- Revell (2639)
- Hasegawa (4832)
- Tamiya (6207)
- Model Monkey (625)
- Airfix (819)

▼ Group (20)

- Aircraft (105385)
- Vehicles (78244)
- Ships (1012)
- Humans (16551)
- Utensils (310)
- Science Fiction (1977)



Redirects

Redirects

Are STUPID!!!

Redirect Liquidation



scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

MERCEDES-AMG GT3

1/24 SCALE SPORTS CAR SERIES • DETAILED STATIC DISPLAY MODEL
• HIGHLY DETAILED EXTERIOR & INTERIOR RECREATED
• REALISTIC INTERIOR & SUSPENSION DEPICTION
• METAL-PLATED FRONT GRILLE
• DETAIL SCALE MODEL FOR HOBBIESTS AGE 14 AND ABOVE. THIS IS NOT A TOY.
• DETAIL AND SIZE MAY VARY FROM IMAGE ON BOX.

1/24 スポーツカーシリーズ
メルセデス AMG GT3
ディスプレイモデル

New releases (Cars in 1:24)
Honda BALLADE SPORTS MUGEN CR-X PRO

NISSAN 240RS BS110

Login Register

90000+ plastic modelers use us

Elements Console Sources Network Performance Memory Application >>

Request Old URL

tamiya-24345-old-url-amg-gt3--1093631

Status	Type

See New URL

← → G scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631 ☆

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

1/24 SCALE SPORTS CAR SERIES *DETAILED STATIC DISPLAY MODEL
*REALISTIC EXTERIOR & SUSPENSION DEPICTIONS
*METAL-PLATED FRONT GRILLE
*DETAILED SCALE MODEL FOR HOBBIESTS AGE 14 AND ABOVE. THIS IS NOT A TOY.
*CURRENT AND ONLY MODEL FOR HOBBIESTS AGE 14 AND ABOVE. THIS MAY VARY FROM IMAGE ON BOX.

1/24 スポーツカーシリーズ
メルセデス AMG GT3
ディスプレイモデル

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New releases (Cars in 1:24)
Honda BALLADE SPORTS MUGEN CR-X PRO

NISSAN 240RS BS110

Request Old URL

tamiya-24345-old-url-amg-gt3--1093631

Status	Type

See New URL

← → G scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631 ☆

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

1/24 SCALE SPORTS CAR SERIES • DETAILED STATIC DISPLAY MODEL
• EXACTLY REPRODUCED EXTERIOR & INTERIOR FEATURES RECREATED
• REALISTIC INTERIOR & SUSPENSION DEPICTIONS
• METAL-PLATED FRONT GRILLE
• DETAIL SCALE MODEL FOR HOBBIESTS AGE 14 AND ABOVE. THIS IS NOT A TOY.
• PREVIOUS AND ONLY MODEL FOR HOBBIESTS AGE 14 AND ABOVE. THIS IS NOT A TOY.

1/24 スポーツカーシリーズ
メルセデス AMG GT3
ディスプレイモデル

Login Register

90000+ plastic modelers use us

New releases (Cars in 1:24)
Honda BALLADE SPORTS MUGEN CR-X PRO

Nissan 240RS BS110

DRIVE CAR

Elements Console Sources Network Performance Memory Application >> ⚙️ ⚙️ X

Request Old URL

tamiya-24345-old-url-amg-gt3--1093631

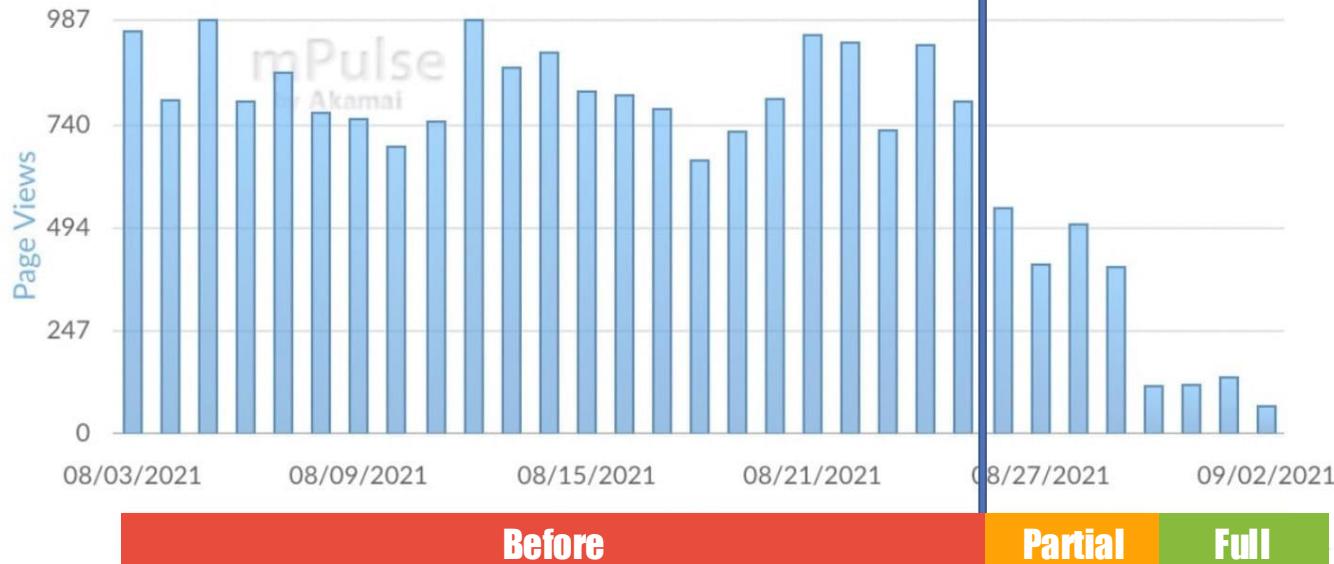
Status	Type
200	Redirect Liquidated

```
<html lang="en">
  ▼ <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>Mercedes-AMG GT3, Tamiya 24345 (2017)</title>
    <script>history.replaceState("", "", "/kits/tamiya-24345-mercedes-amg-gt3--1093631");</script>
    <link rel="canonical" href="/kits/tamiya-24345-mercedes-amg-gt3--1093631">
  </head>
  ▼ <body>
```

Not a Crawler

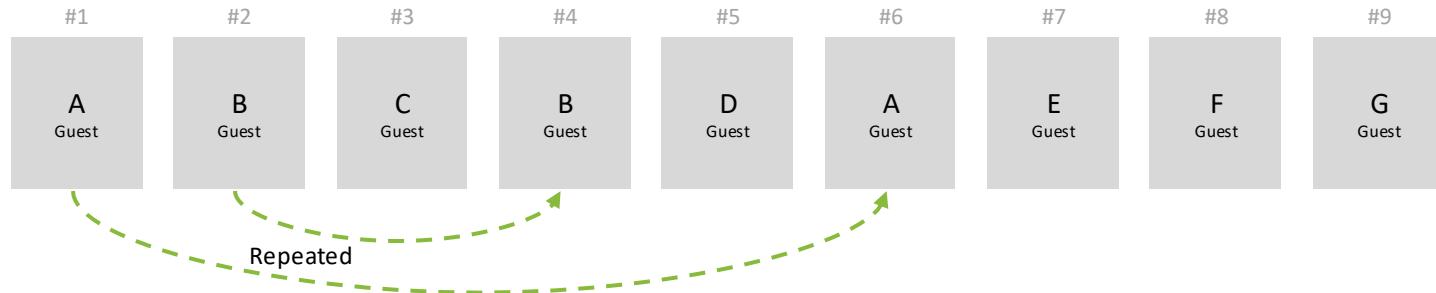
```
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>Mercedes-AMG GT3, Tamiya 24345 (2017)</title>
    <script>history.replaceState("", "", "/kits/tamiya-24345-mercedes-amg-gt3--1093631");</script>
    <link rel="canonical" href="/kits/tamiya-24345-mercedes-amg-gt3--1093631">
  </head>
  <body>
```

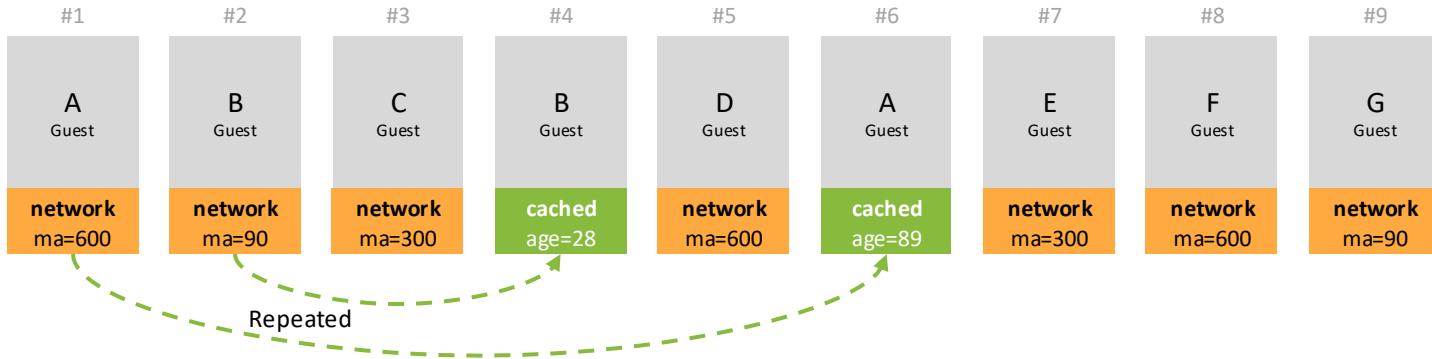
Redirects over time



HTML Browser Caching

#1	#2	#3	#4	#5	#6	#7	#8	#9
A Guest	B Guest	C Guest	B Guest	D Guest	A Guest	E Guest	F Guest	G Guest





E-mail

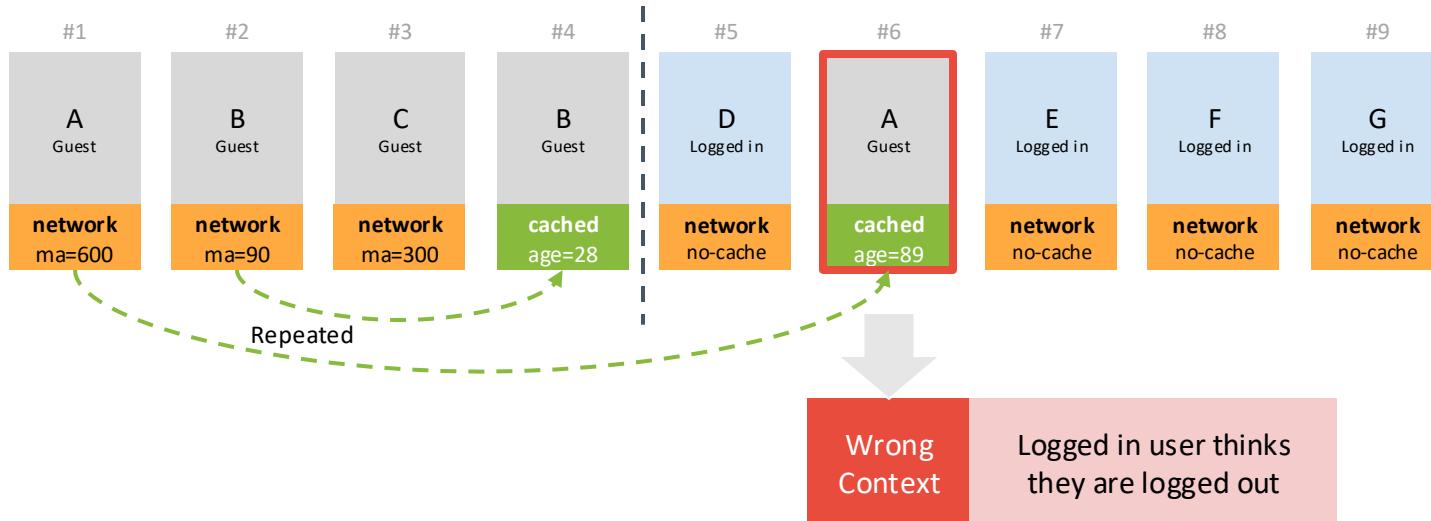
tim@scalemates.com

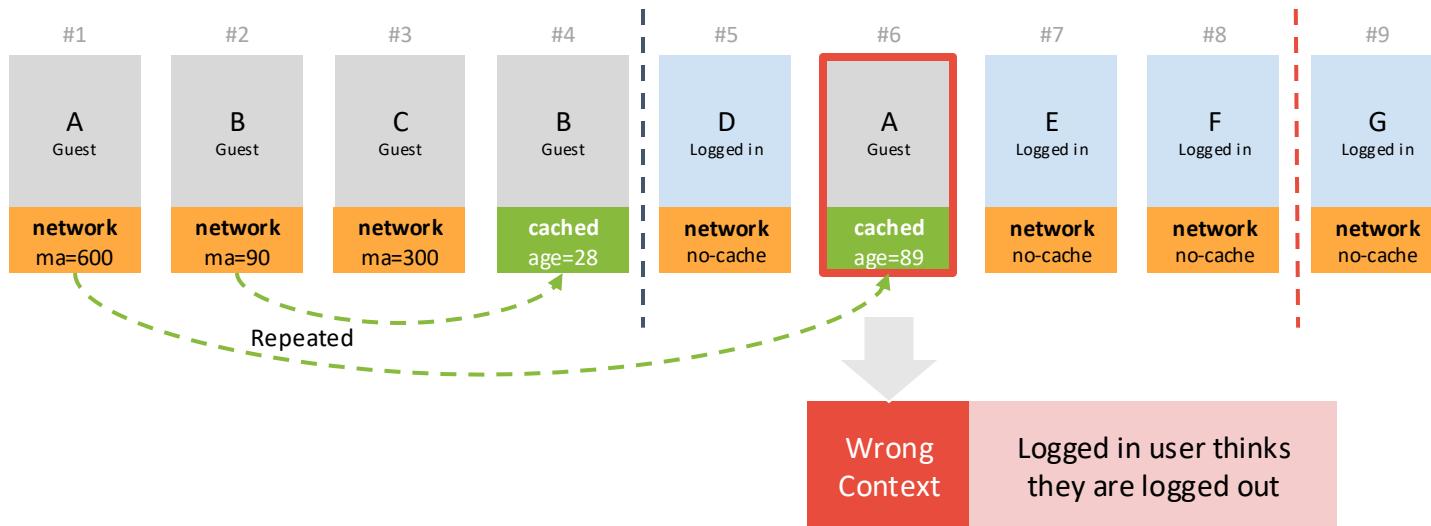
Password

Login

The problem starts
here...

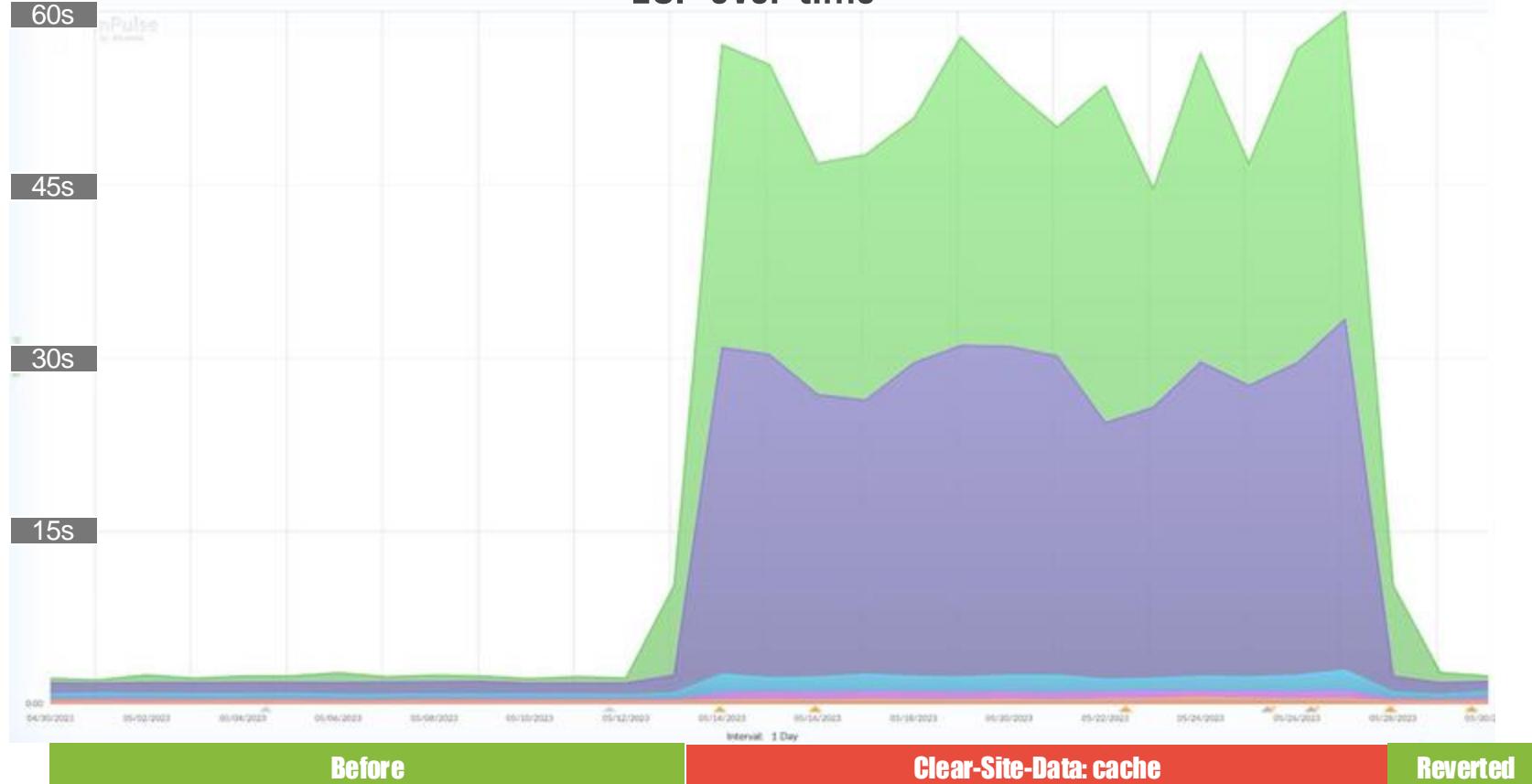
Log in





Clear-Site-Data: cache

LCP over time



RLI-BCB

Recently Logged In Browser Cache Bypassing

Name	Value	Domain	Path	Expires / Max-Age
RLI	1	.www.scalemates.com	/	2023-12-14T12:11:25.000Z

↑
RLI Risk Zone

```
▼<nav id="mainmenu">
  <a href="/">Home</a>
  <a href="/kits/">Kits</a>
  <a href="/colors/">Paints</a>
  <a href="/books/">Books</a>
  <a href="/profiles/user.php?id=9876">My Profile</a>
</nav>
```

Standard

```
▼<nav id="mainmenu">
  <a href="/?rli=1">Home</a>
  <a href="/kits/?rli=1">Kits</a>
  <a href="/colors/?rli=1">Paints</a>
  <a href="/books/?rli=1">Books</a>
  <a href="/profiles/user.php?id=9876&rli=1">My Profile</a>
</nav>
```

RLI Risk Zone

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="initial-scale=2,width=device-width">
    <title>Westland Sea King HAS.1/HAS.5/HU.5, Airfix A11006 (2023)</title>
    <script>history.replaceState("", "", "/kits/airfix-a11006-westland-sea-king--1495933");</script> == $0
  <style>...</style>
  ...
</head>
<body class="bgl">...</body>
</html>
```



Removes ?rl=1 in the browser

← → ⟳<https://www.scalemates.com/kits/airfix-a11006-westland-sea-king--1495933>

Westland Sea King HAS.1/HAS.5/HU.5

Airfix | No. A11006 | 1:48



My profile Preferences

Albums

Projects | Collections

Stash management

Stash

Wishlist

Started

On order

Completed

For sale

Contribute

Kit | Tool | Book

Feature requests

Data suggestions



Elements

Console

Sources

Network

Performance

Memory



2



Preserve log

Disable cache

No throttling



Name

Status

Priority

Ca...

Waterfall

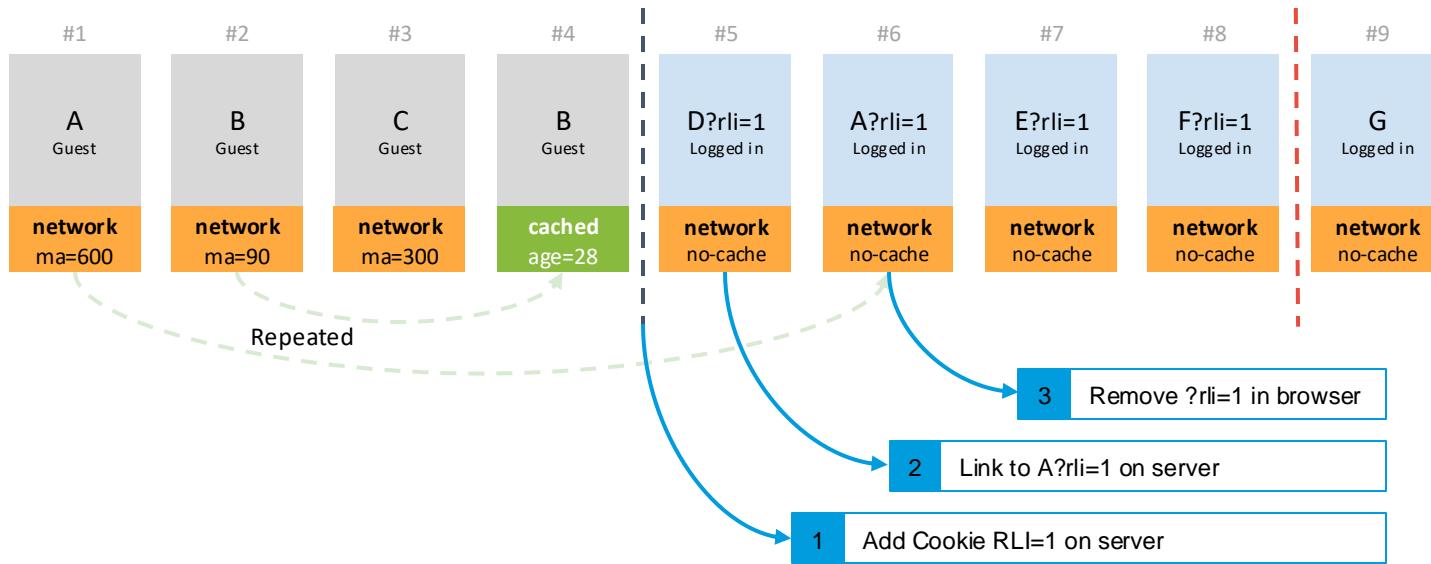
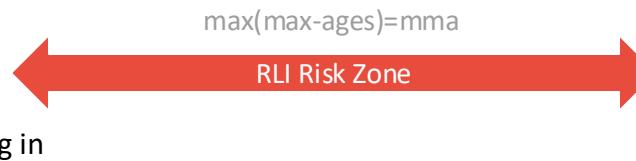
[airfix-a11006-westland-sea-king--1495933?rli=1](#)

200

Highest

no...





Progressive Speculation



← → ⌛ 🔒 https://discuss.akamai.com/t/speculation-rules-api-on-akamai/1242

Speculation Rules API on Akamai

■ Dev Tips web_performance

 **Scalemates** Akamai Staff

This blog post covers how to get started with the brand new browser [Speculation Rules API](#) on Akamai.

This Web API aims to improve the performance of Multi Page Apps (MPA) by proactively prefetching or prerendering future navigations.

A few Property Manager Behaviors or an EdgeWorker are all you need to benefit from Speculation Rules.

Results

After talking to the friendly Google folks, we tested an Akamai prototype of the speculation rules API. We enabled it for production traffic from [Scalemates.com](#), the largest modeling website in the world. It is powered by Akamai (Ion, WAF, Image Manager) and uses [mPulse](#) to validate performance changes.

The results of this new API were impressive:

- The P95 of LCP is around 500 ms faster
- The P75 of LCP is around 170 ms faster
- 59% of navigations triggered pre-rendering

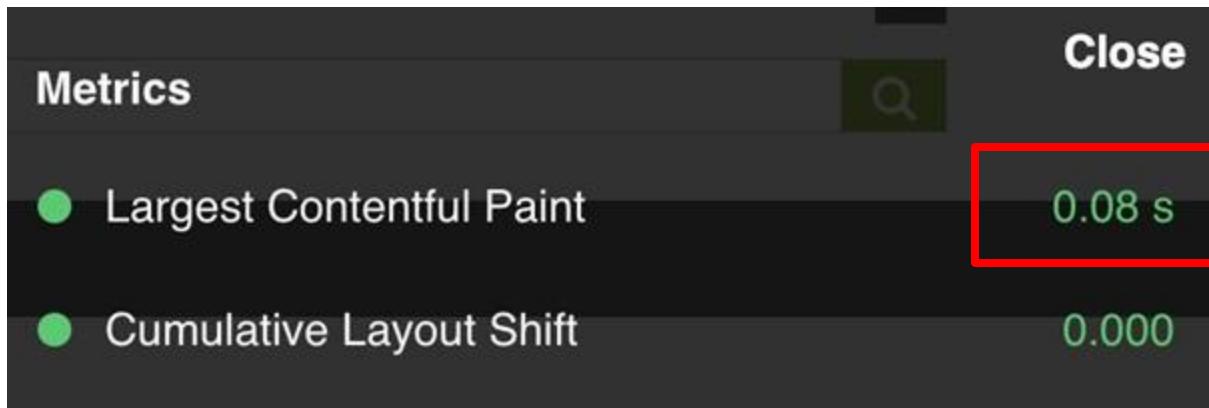
5 Jan 29

Results

Akamai Implementation
Options
Summary
↓ Jump to end



Nearly INSTANT performance



```
<script type="speculationrules">
  {"prerender":
    [{"source": "document", "where": {"selector_matches": "nav a, a.article"}, "eagerness": "moderate"}]
  }
</script>
```

Action prerender | prefetch

```
<script type="speculationrules">
  {"prerender": _____
    [{"source": "document", "where": {"selector_matches": "nav a, a.article"}, "eagerness": "moderate"}
  }
</script>
```

Action
prerender | prefetch

```
<script type="speculationrules">
  {"prerender": [
    {"source": "document", "where": {"selector_matches": "nav a, a.article"}, "eagerness": "moderate"}
  ]}
</script>
```

Eagerness
eager | moderate | conservative

Click

Page A

Page B

-400

-300

-200

-100

0

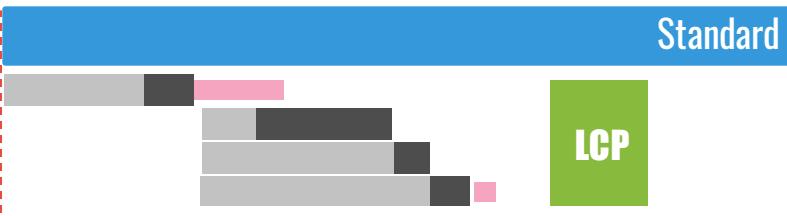
100

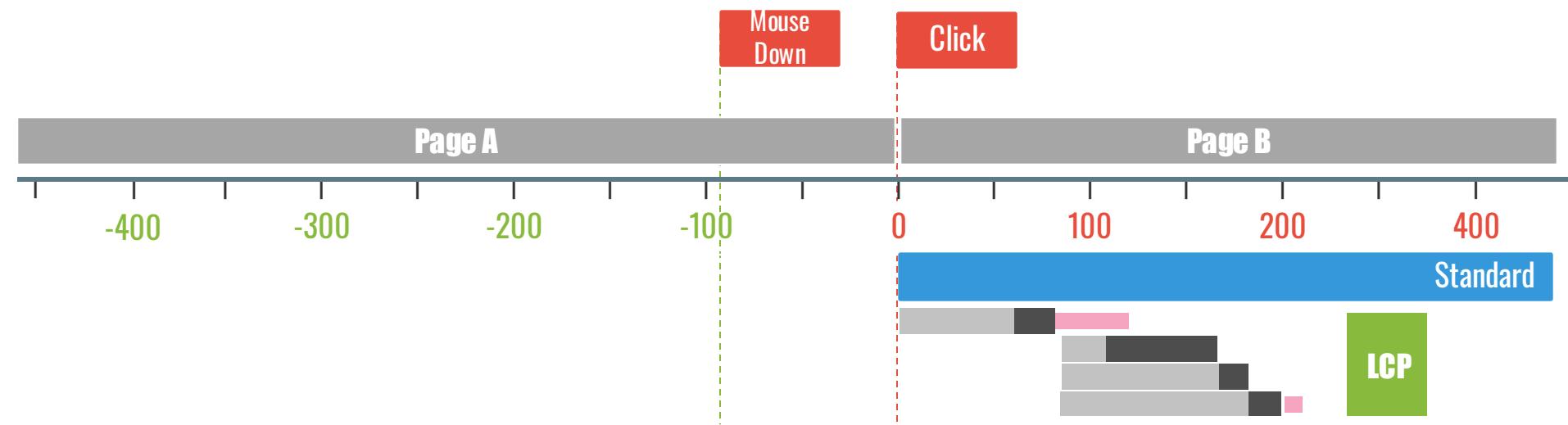
200

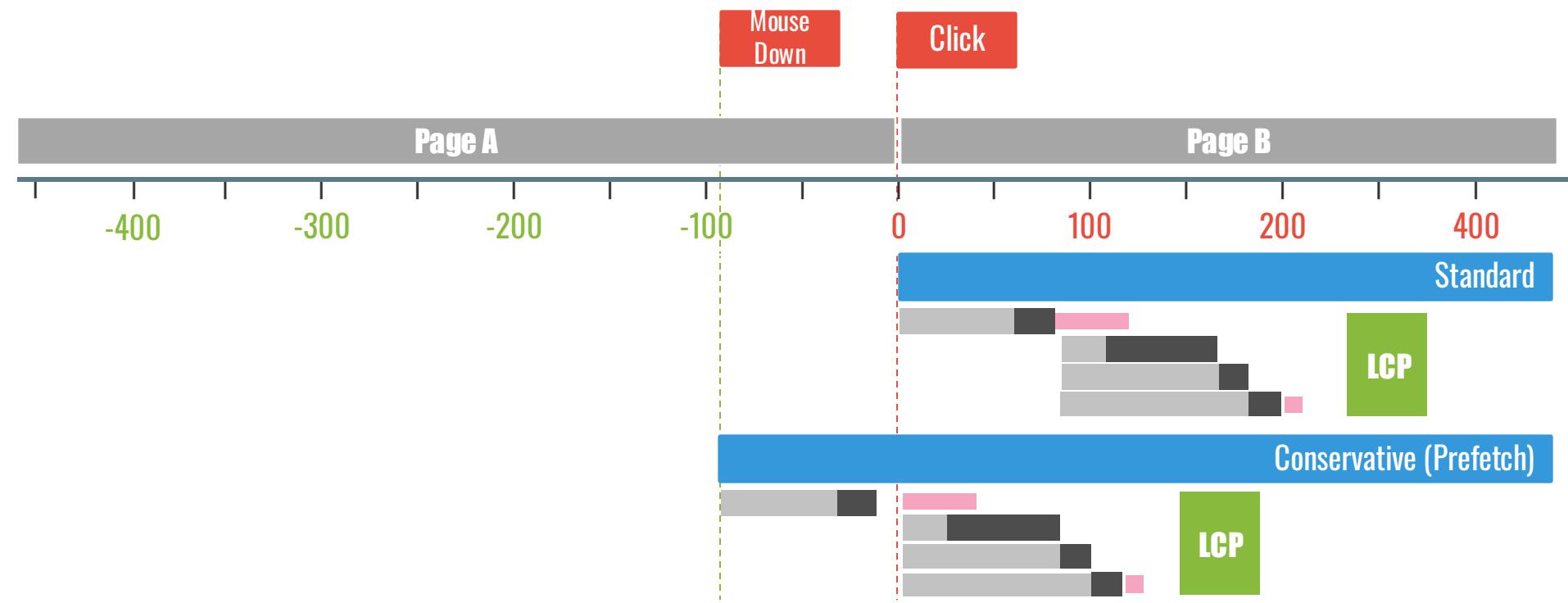
400

Standard

LCP







Hover

Mouse
Down

Click

Page A

Page B

-400

-300

-200

-100

0

100

200

400

Standard

LCP

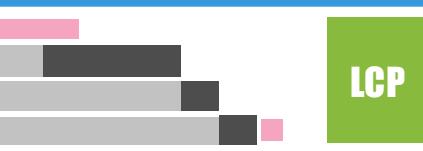
Conservative (Prefetch)

LCP

Moderate (Prefetch)

LCP

+200ms



Hover

Mouse
Down

Click

Page A

Page B

-400

-300

-200

-100

0

100

200

400

Standard

LCP

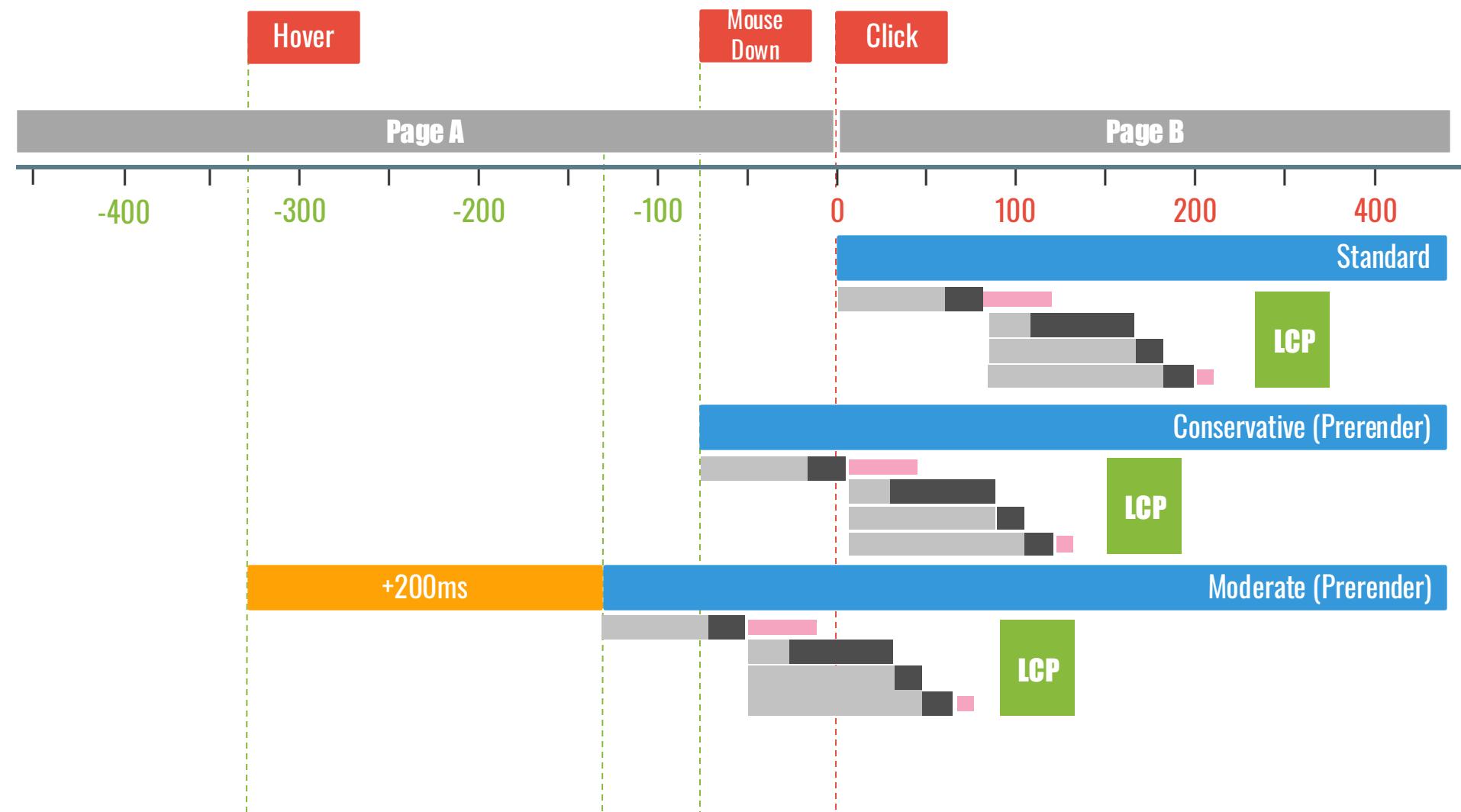
Conservative (Prerender)

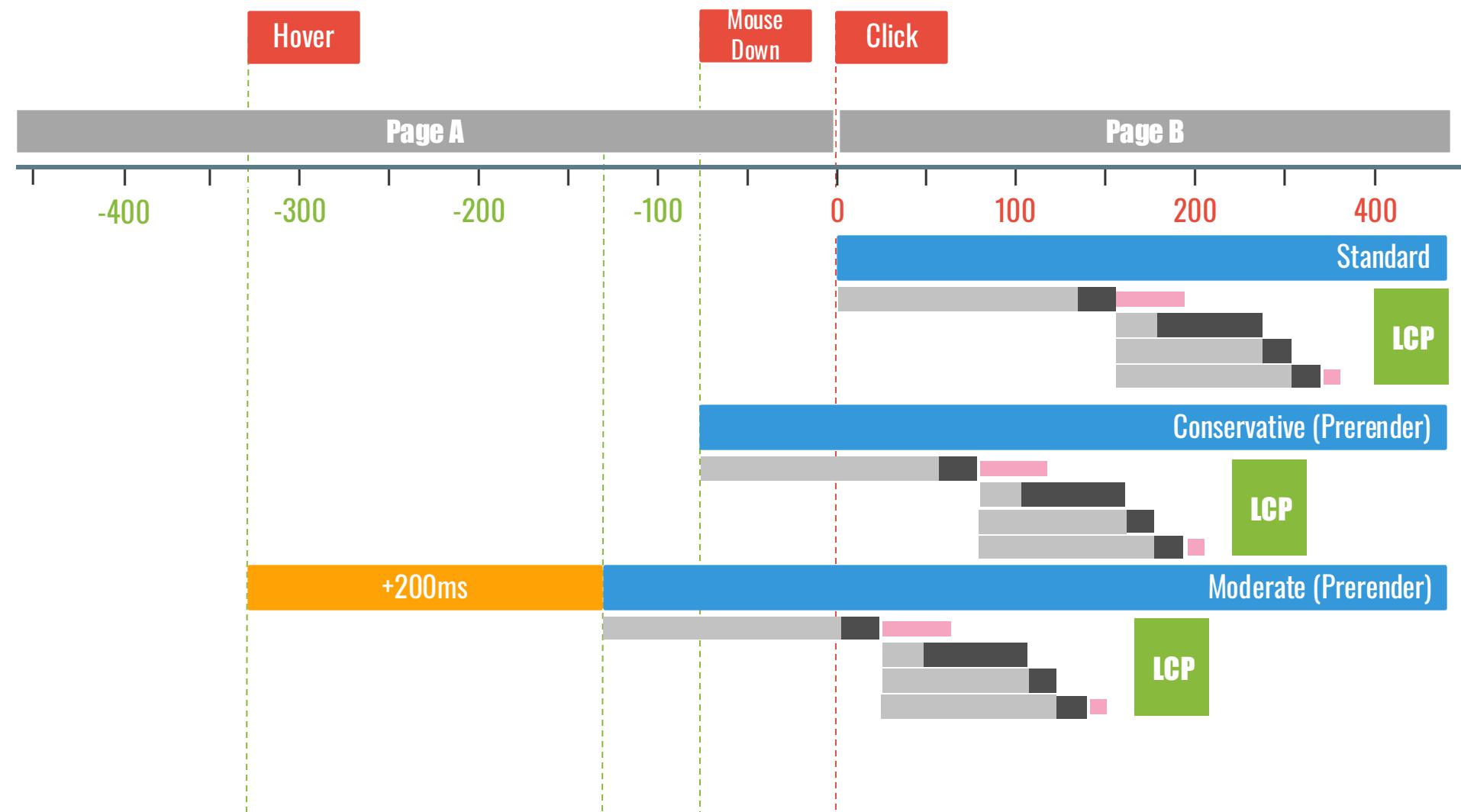
LCP

+200ms

Moderate (Prerender)

LCP





Hover

Mouse
Down

Click

Page A

Page B

-400

-300

-200

-100

0

100

200

400

Standard

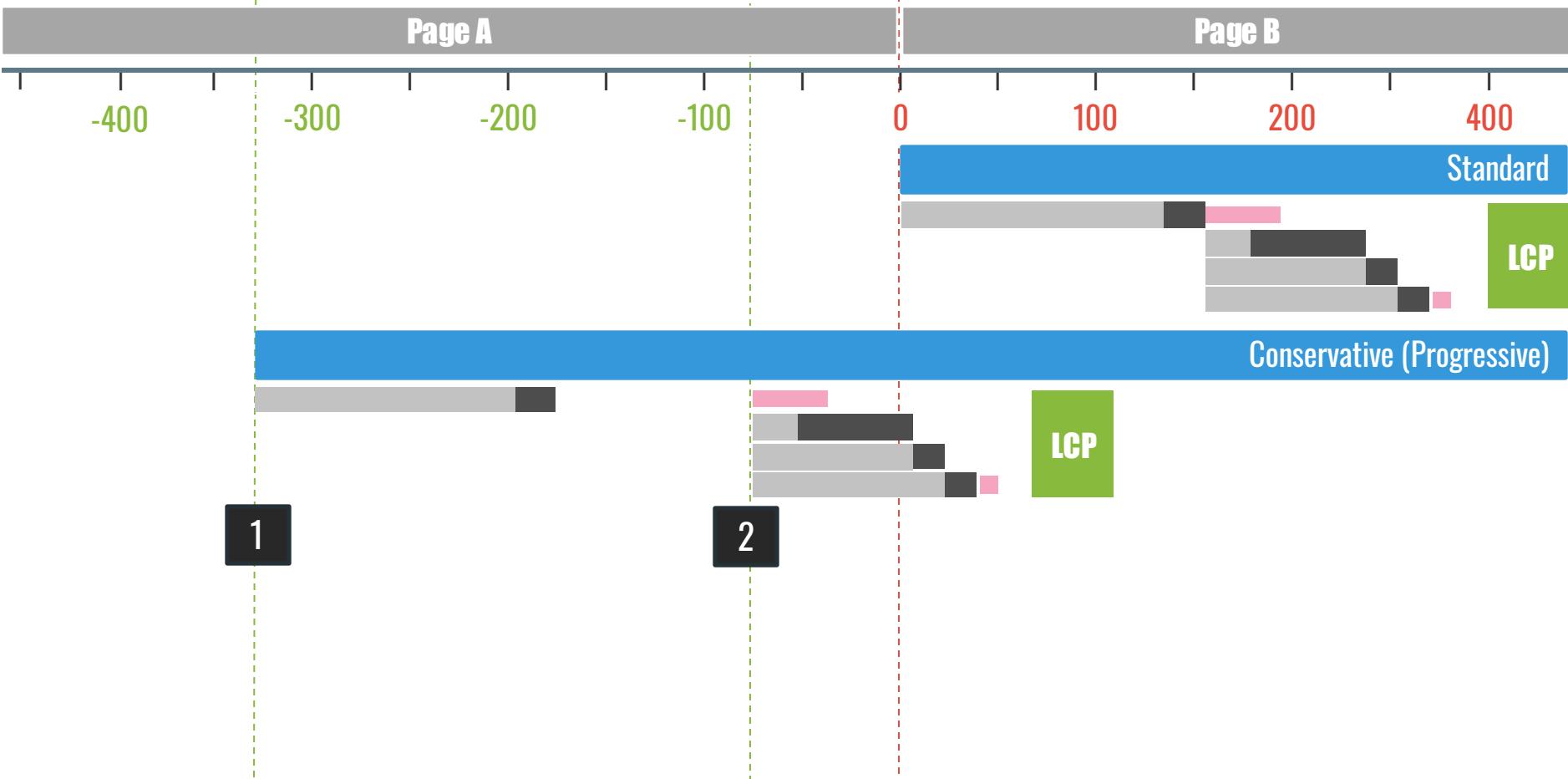
LCP

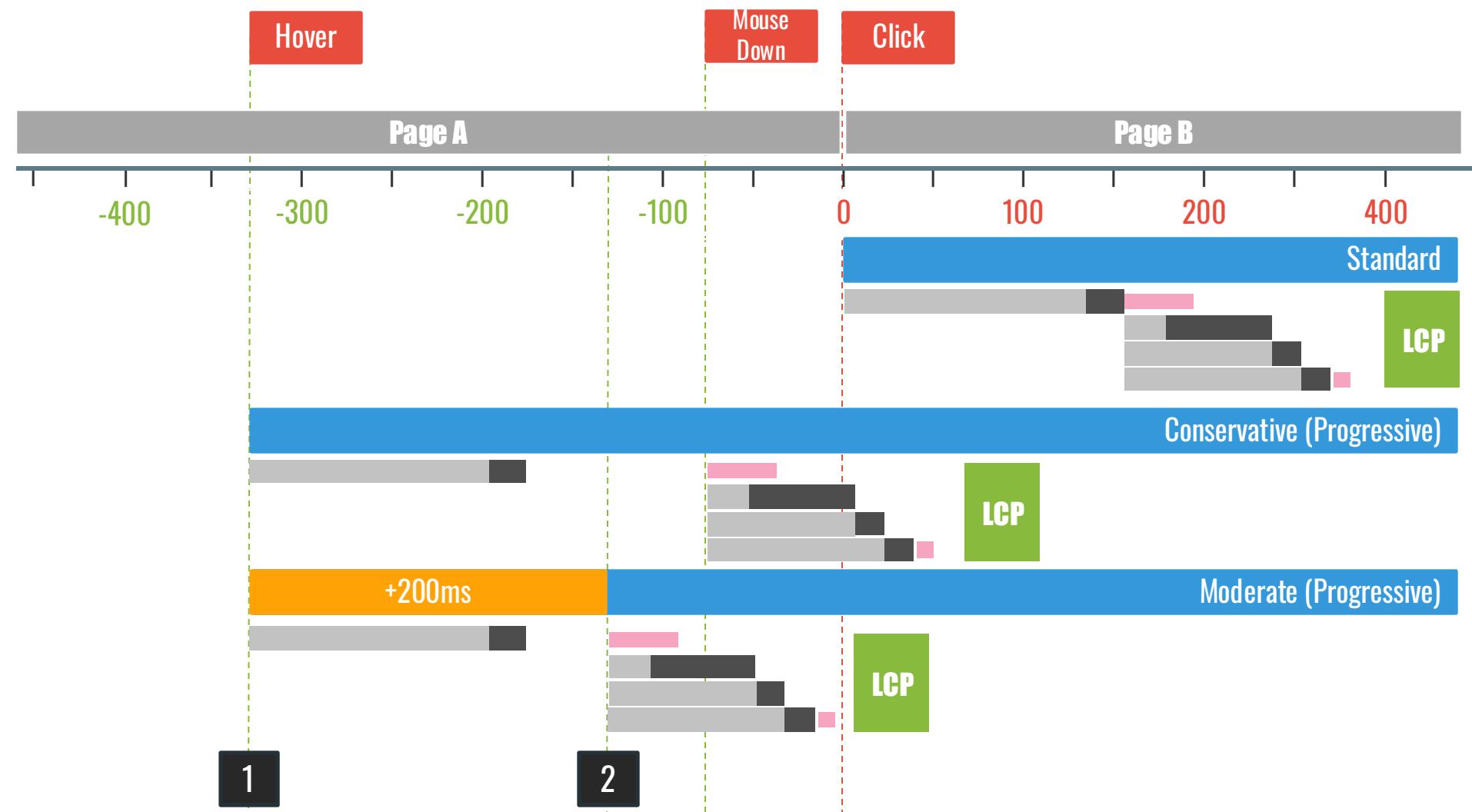
Conservative (Progressive)

LCP

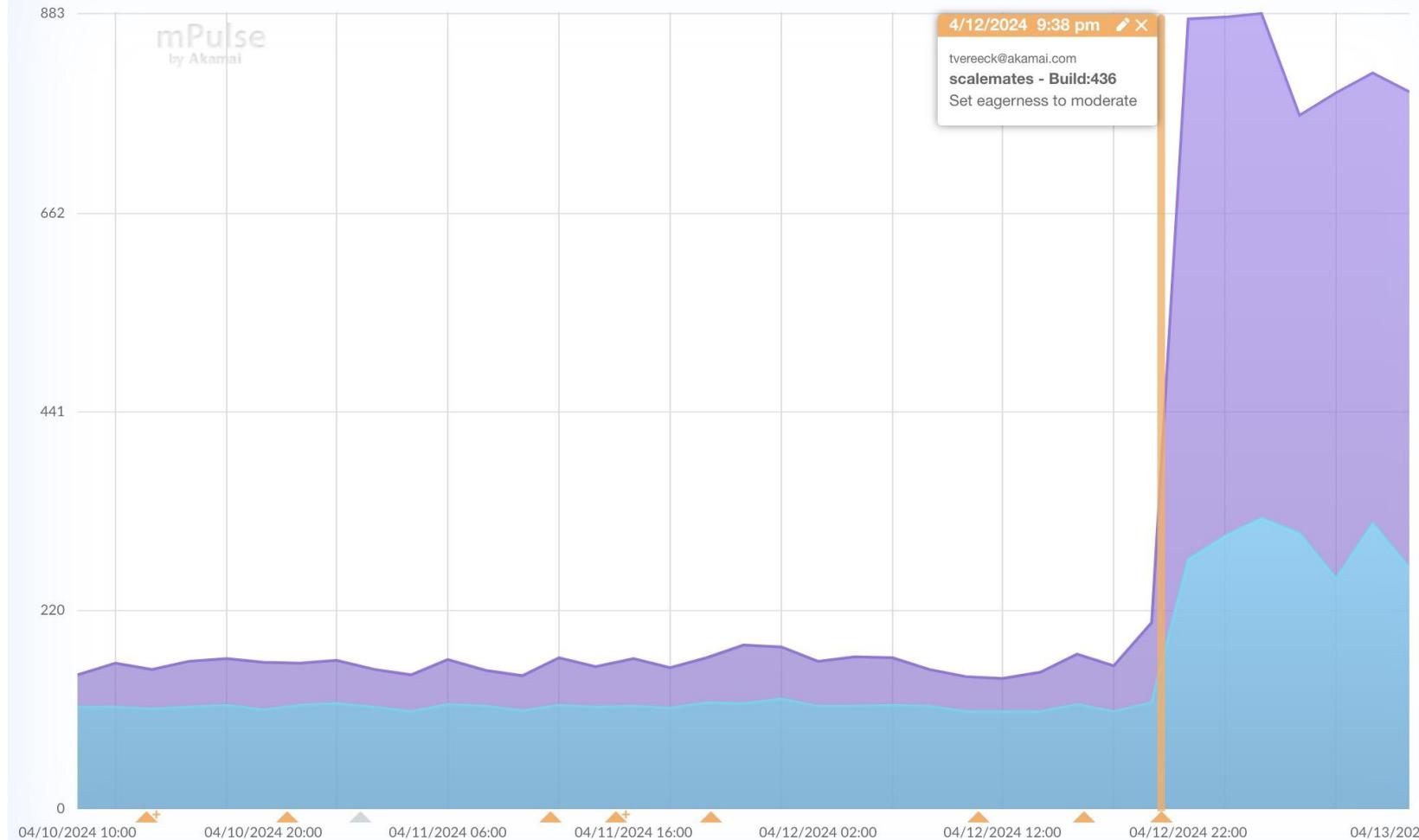
1

2





ActivationStart (last 3 days)



Pushing the limits
INP

PHP

MPA

Beyond CWV

1080px



720px

2.25x
more pixels

scalemates.com/kits/italeri-2520-tornado-ids--1645304

New Chrome available

scalemates

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1001 HOBBIES

164.99 EUR 53.49 EUR 36.49 EUR 63.99 EUR Shop now

Tornado IDS

Italeri | No. 2520 | 1:32

Login Register

90000+ plastic modelers use us

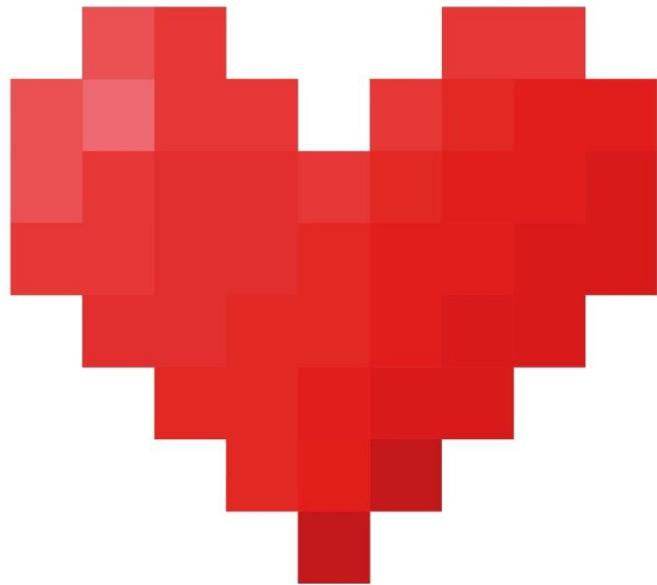
New releases (Jets in 1:32)

View more >

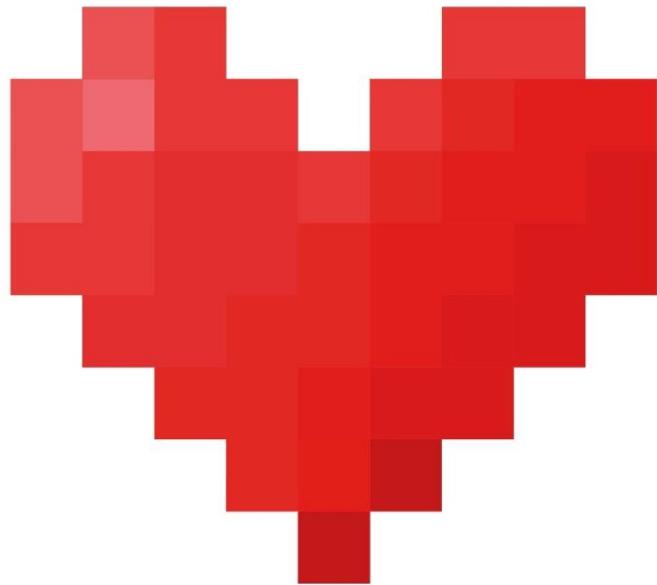
RES KIT ACCESSORIES

Facts

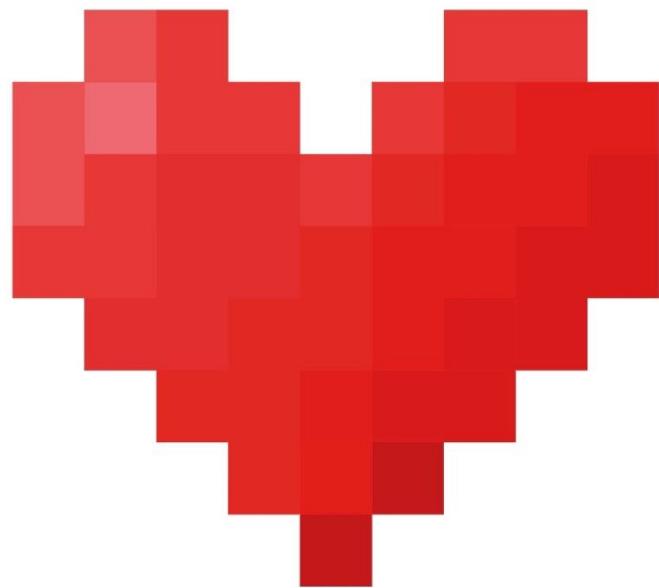
View Transitions
100ms “slower”



CORE WEB VITALS



P75



P99

Thank you!



@TimVereecke

Questions?



@TimVereecke

Past 4 Years

