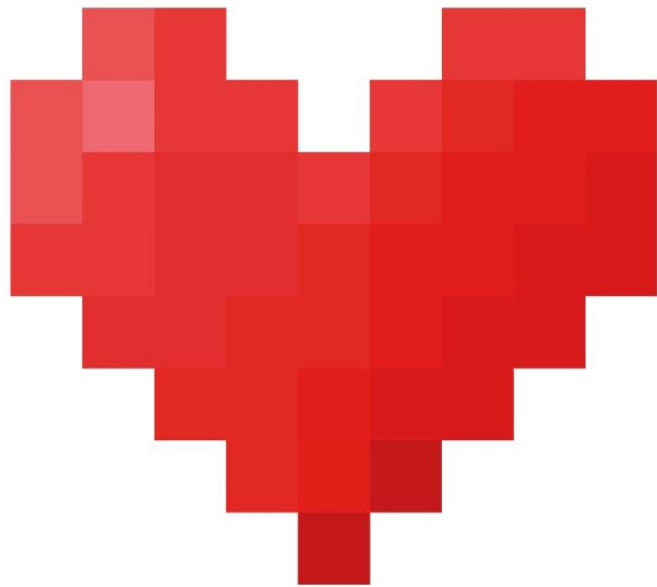


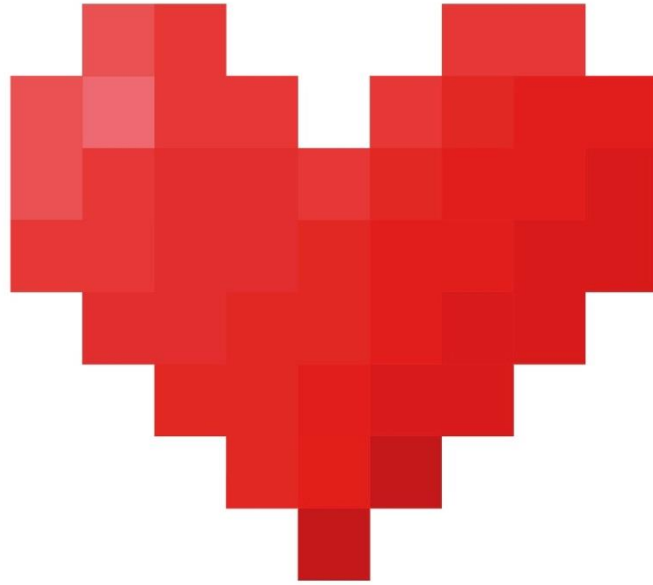
Pushing #WebPerf Limits



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Airfix | No. A11006 | 1:48



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

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Number:	A11006
Scale:	1:48

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New releases (Helicopters in 1:48)

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[1:48 Airfix Westland Sea King HAS.1/HAS.5/HU.5](#)
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[1:48 Airfix Westland Sea King HAS.1/HAS.5/HU.5](#)
[1:48 Airfix Westland Sea King HAS.1/HAS.5/HU.5](#)
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[1:48 Airfix Westland Sea King HAS.1/HAS.5/HU.5](#)
[1:48 Airfix Westland Sea King HAS.1/HAS.5/HU.5](#)
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48-101 Sea King uplift kit #1



Tail rotor (5 w/ 6 blades)

Weighted wheels

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AIR-0001

Telling the Sea King story...properly.

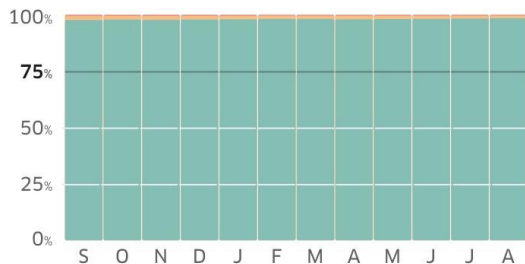
Hot kits (Helicopters in 1:48)

● Largest Contentful Paint CWV ⓘ

0.6_s



Good ≤ 2.5s 98.5% Need Impr. 1.1% Poor > 4.0s 0.5%



● Cumulative Layout Shift CWV ⓘ

0



Good ≤ 0.1 99.8% Need Impr. 0.1% Poor > 0.25 0.1%

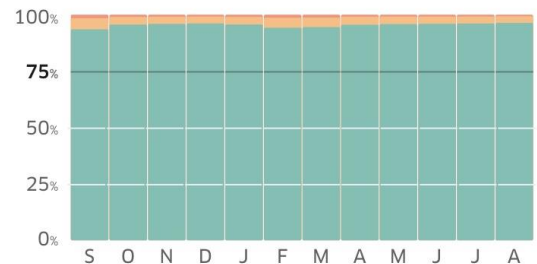


● Interaction to Next Paint CWV ⓘ

50_{ms}



Good ≤ 200ms 96.4% Need Impr. 3% Poor > 500ms 0.7%



Why bother?



CORE WEB VITALS



GOOD ENOUGH?



GOOD ENOUGH?



SEO: Yes!

GOOD ENOUGH?



SEO: Yes!

UX: Noooooo!

How to get here?



How to get here?



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 3 rd parties
.woff2	Remove unused ...	Reduce DOM Elements
Reduce JS	Use srcset	...

1.
COMMON
PRACTICES

97

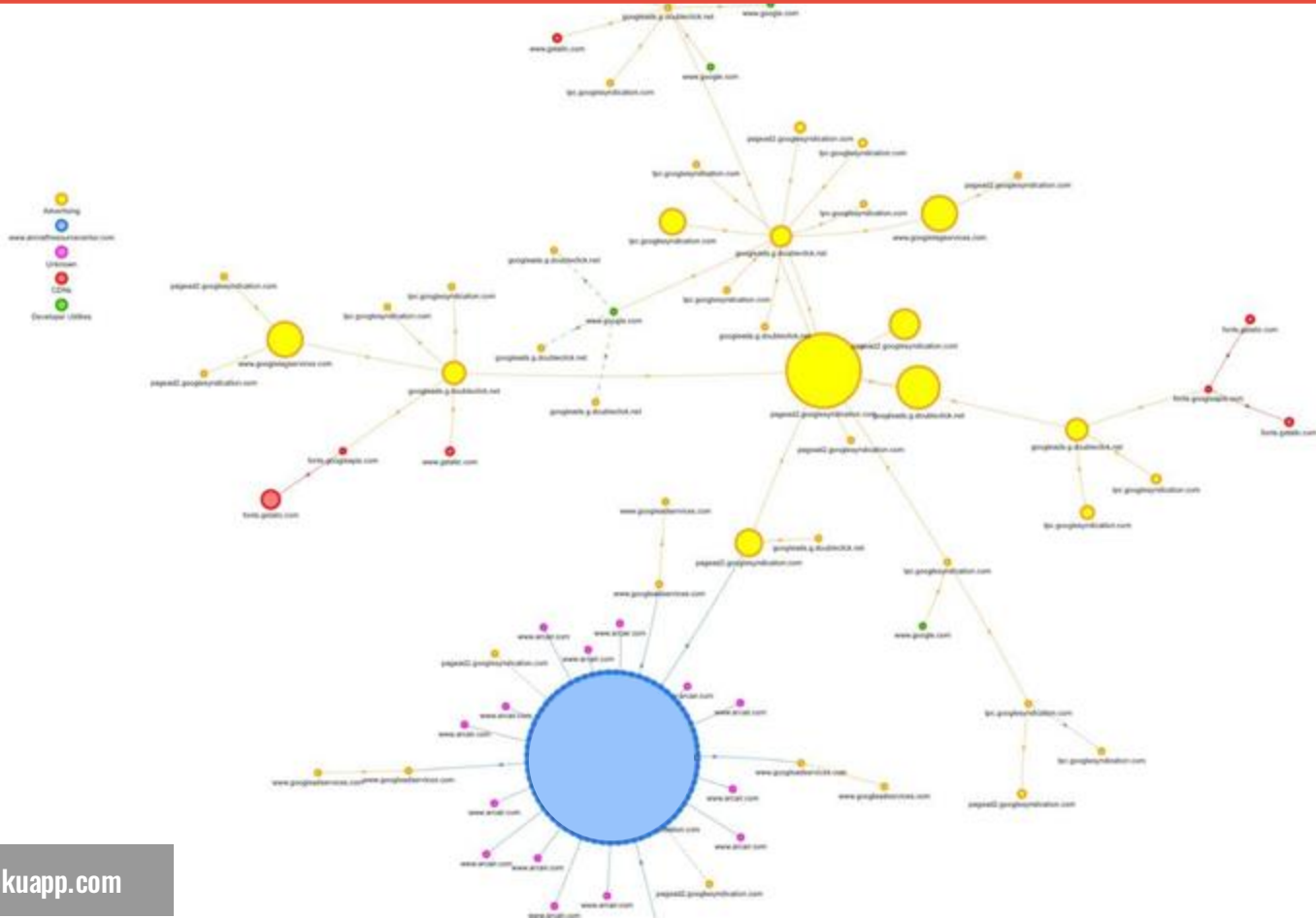
1.
COMMON
PRACTICES

2.
DESIGN
CHOICES

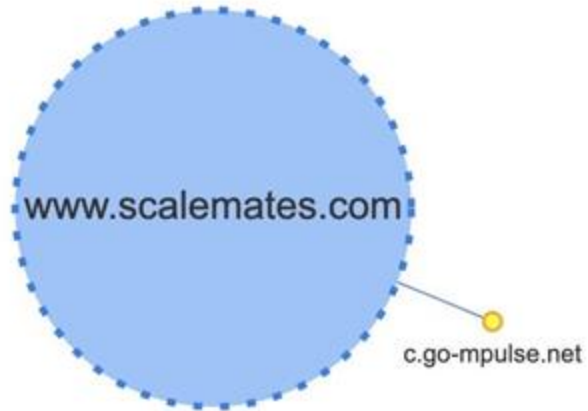
3.
FRESH
TECHNIQUES

Pushing the limits
Design Choices

2011



2024



2011



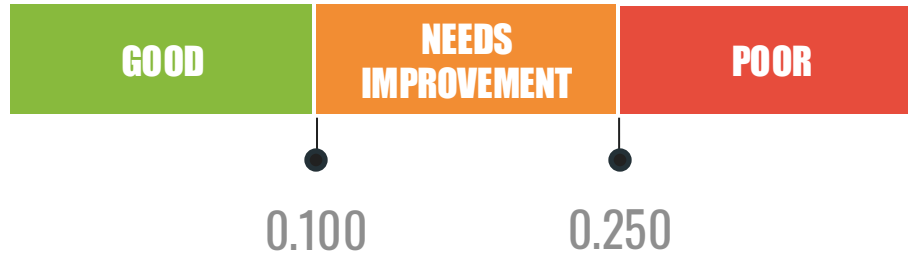
MPA

2024

php

MPA

Pushing the limits CLS



CLS



CLS

0.002



Consolidated B-24H Liberator

Airfix | No. A09010 | 1:72

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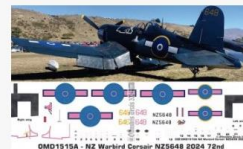
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1:72 CONSOLIDATED B-24[®] H LIBERATOR[®]

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New releases (Propeller in 1:72)



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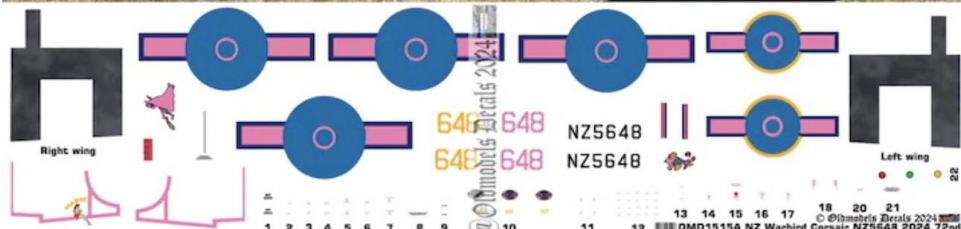


1:72

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

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



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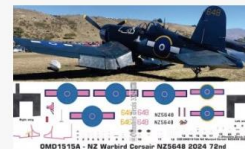
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New releases (Propeller in 1:72)



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

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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

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Hot hits Helicopters in 1:48)

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

FIGURA • MODEL KIT • MASCHETTE • MONTA • MODELBAUSKIT • MODELLO A SCALA • JOUJOUKIEL • MODELO PARA MONTAR • PLASTICSET • KITSMODEL • MODELLO PARA COSTRUIRE • MODELBAUSKIT • ZINNOBONFIGURON MONTEN

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



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300x250

Hot hits 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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Facts

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



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Hot kits (Helicopters in 1:48)



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```
▼<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

```
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    ▶ <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>  
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</style>
```

Extra Wrapper

```
▼ <section class="av">
```

```
</section>
```

```
<style>  
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</style>
```


HTML Streaming

FCP

scalemates

EN

All sections ▾

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All sections ▾

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✓ All sections

Kits

» Reviews


» Inst

```
<!DOCTYPE html>
<html lang="en">
  <head> ... </head>
  <body class="bgl">
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      <a href="/?l=1" class="h0 db pr" id="lc"> ... </a>
      <form class="hrspb" action="/search.php?l=1">
        <nav id="ub"> ... </nav>
        <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>  slot
```

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

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

✓ 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"> ... </a>
    ▼ <form class="hrspb" action="/search.php?l=1">
      ▶ <nav id="ub"> ... </nav>
      ▼ <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
```




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Harry Roberts

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0:01 / 45:45



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```
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Google Search Console

```
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  <xhtml:link rel="alternate" hreflang="ja" href="https://www.scalemates.com/ja/kits/tamiya-24345-mercedes-amg-gt3--1093631"></xhtml:link>
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9 lines, 1009 bytes

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<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>
```



```
<!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)





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	731	89	12.18%
	Edge/85	0.49	111	89	80.18%
	Edge/89	0.00	0	0	0.00%
	Edge/98	0.00	0	0	0.00%
	Edge/90	0.00	0	0	0.00%
	Edge/92	0.00	0	0	0.00%
	Edge/87	0.00	0	0	0.00%
	Edge/117	0.00	0	0	0.00%
	Edge/95	0.00	0	0	0.00%
	Edge/97	0.00	0	0	0.00%
	Edge/18	0.00	0	0	0.00%
	Other - Edge	0.00	620	0	0.00%
Total		0.00	731	89	12.18%

Pushing the limits

LCP



LCP

<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">

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<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">

</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">

</picture>



CDN Efficiency

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

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

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

RESKIT



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](#)
[BAGGIE](#)
[BOMBER](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)
[BOULEVARD](#)

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)
Packaging:	Rigid box (Top opener)
Topic:	Sikorsky S-61 + Helicopters (Aircraft)

Markings

Login

Register

95.000+ plastic modelers use us

New releases (Helicopters in 1:48)



View more >

48-101 Sea King uplift kit #1


 Full set, 11 or 4 limited
 limited editions
 \$2499 + P&H @ our 18 page

[Telling the Sea King story, properly](#)

Hot kits (Helicopters in 1:48)





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

Airfix | No. A11006 | 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:	2023 New tool
Barcode:	5063129001018 <small>(EAN)</small>
Packaging:	Rigid box (Top opener)
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Markings

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New releases (Helicopters in 1:48)



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48-101 Sea King uplift kit #1



Full color, 11 or 4 limited
Registered wheels
\$23.99 + P&H @ our 18 page

Telling the Sea King story... properly.

Hot kits (Helicopters in 1:48)





Porsche 911 GT3 RS

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



Facts

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

Product timeline



[Full history »](#)

Marketplace

Online shops

gpmödeling

€ 0.00

Logon

€ 198.00

[Login](#)

[Register](#)

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New releases (Cars in 124)



[View more »](#)



A NEW CONCEPT IN THE ART OF MODELLING

Hot kits (Cars in 124)



LCP Candidate

Porsche 911 GT3 RS

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



Facts

Brand:	Alpha Model
Title:	Porsche 911 GT3 RS
Number:	AM02-0037
Scale:	1:24
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Topic:	Porsche 911 (991) » Cars (vehicles)

Product timeline

[Full history »](#)

Marketplace

Online shops

gpmödeling

€ 0.00

[login](#)

€ 198.00

[Login](#)[Register](#)

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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)



Late discovered = SLOW

Porsche 911 GT3 RS

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



Facts

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

Product timeline



[Full history »](#)

Marketplace

Online shops

gpmödeling

€ 0.00

Log in or create account

€ 198.00

[Login](#) [Register](#)

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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)



SpotModel
Cars, Motorcycles, Trucks...
1:24
Shop now

Porsche 911 GT3 RS

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

PORSCHE 911 GT3 RS(2016)

1/24 Scale Full Detail Kit
AM02-0037



ALPHA MODEL

Login Register

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New releases (Cars in 1:24)



View more >

DioramaMag
A NEW CONCEPT IN THE ART OF MODELING

Plan A: Send more bytes

Fast Fallback Banner

Porsche 911 GT3 RS

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



Facts

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

Product timeline

2022
Alpha Model

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New releases (Cars in 124)



[View more >](#)



Plan B: Fast Fallback Banner

Early discovered

Porsche 911 GT3 RS

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



Facts

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

Product timeline

2022	Alpha Model
------	-------------

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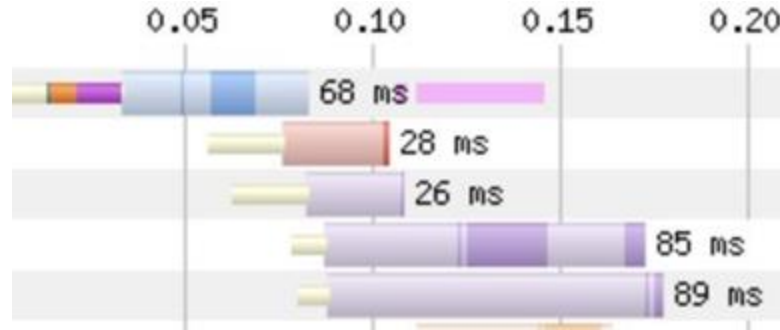
New releases (Cars in 1:24)



[View more >](#)



Early discovered



Plan B: Fast Fallback Banner

Beating Latency

Country		Waiting	
	Pageviews	Performance Budget	
United States	25011	51.0%	
United Kingdom	23251	92.9%	
Germany	20605	94.7%	
France	10380	89.4%	
Netherlands	7271	93.7%	
Poland	5984	90.7%	
Spain	5801	88.5%	
Canada	5733	56.7%	
Italy	5598	88.8%	
Belgium	5572	91.3%	
Australia	5204	12.9%	
Czechia	5032	93.2%	
Russia	4568	70.9%	
Switzerland	4024	91.0%	
Japan	2959	21.6%	
Other	40340	63.5%	
All	177333	74.7%	

High Latency





Old School



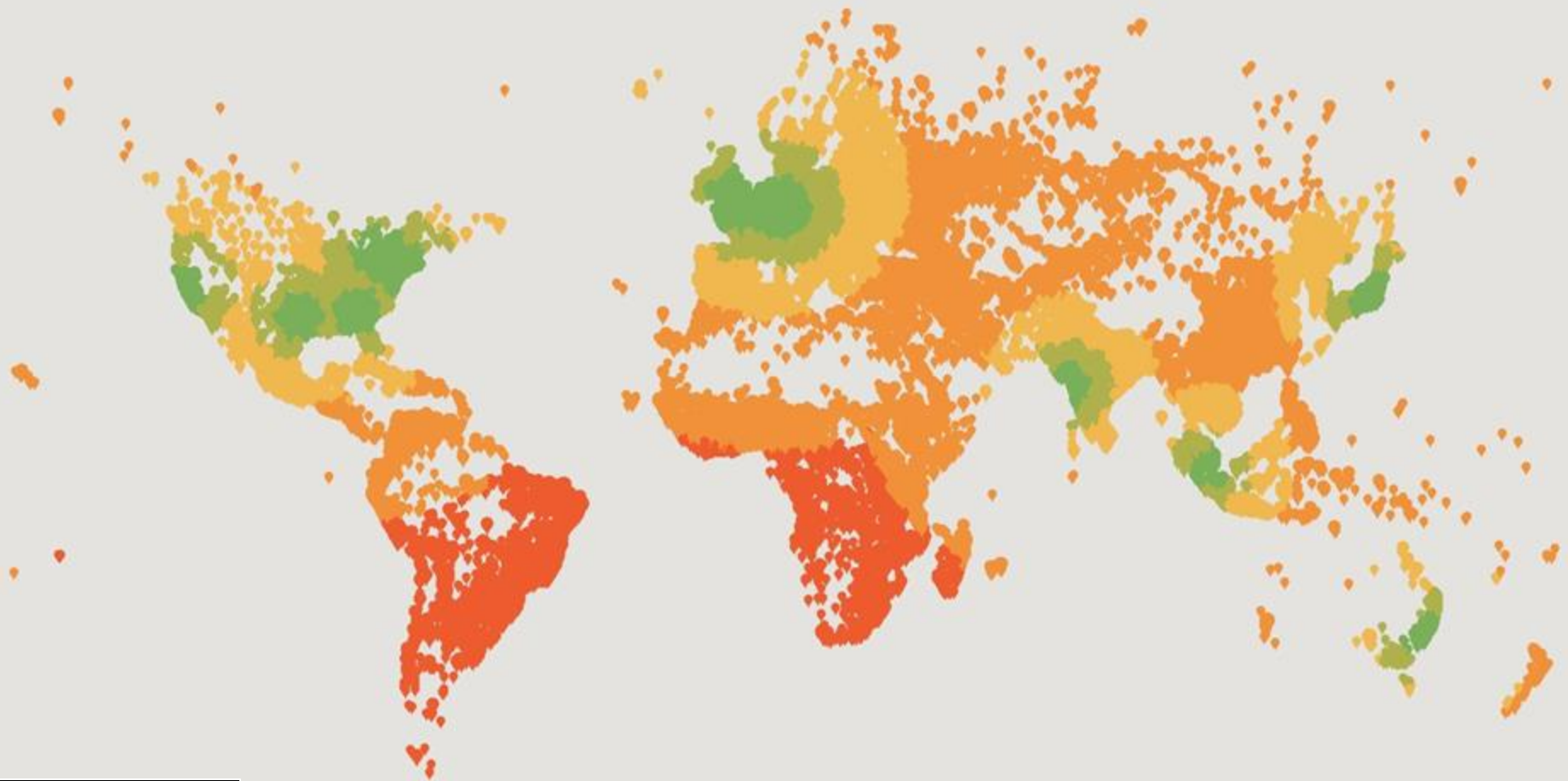
Old School



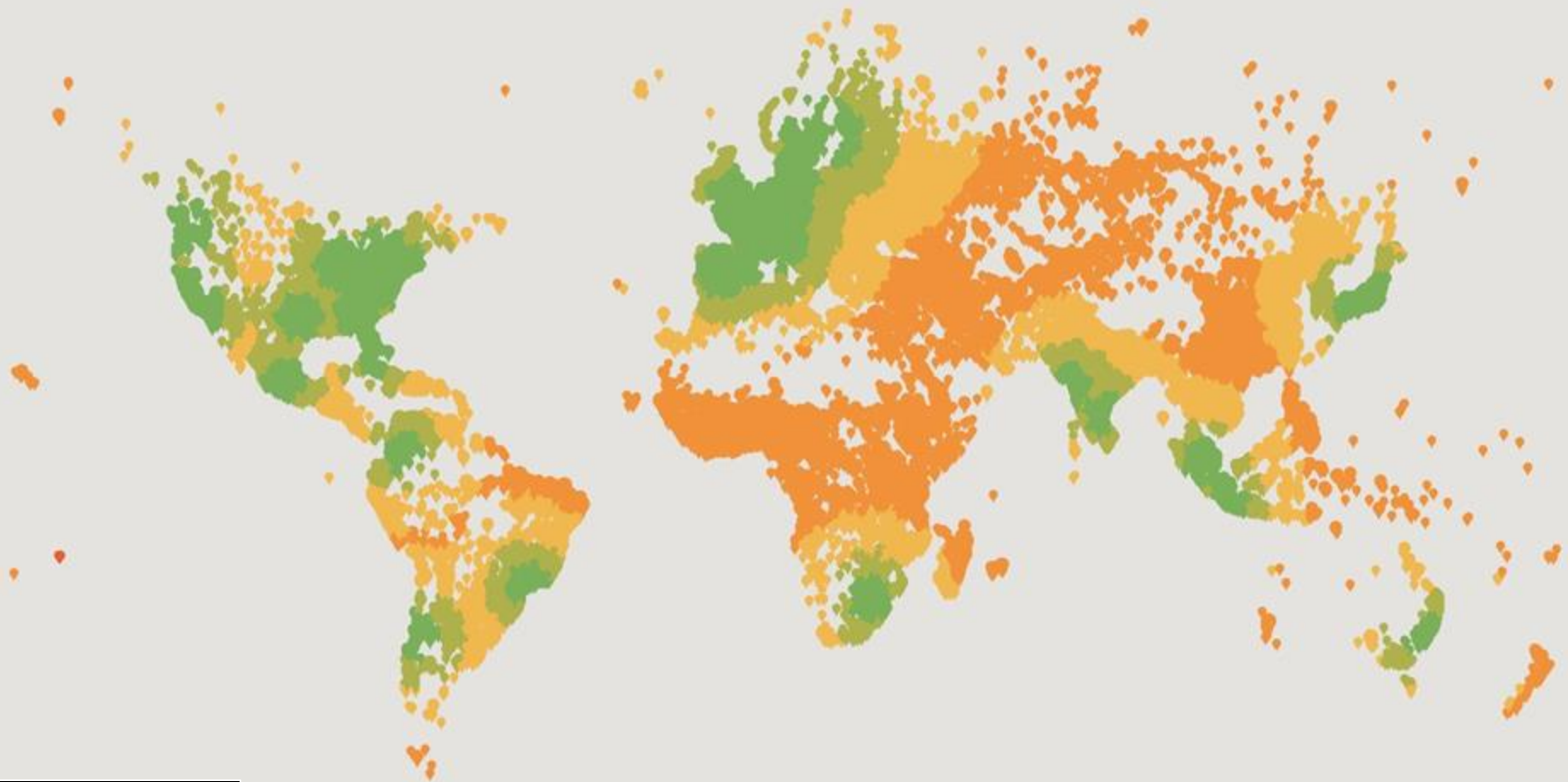
A world map visualization showing the results of a replication test. The map is composed of numerous small, semi-transparent colored dots. The color scale ranges from green (highest replication) to red (lowest replication). A prominent green cluster is visible in Europe, particularly in the northern and central regions. Other green and yellow-green areas are scattered across Asia, including parts of China and India. Red and orange dots are densely packed across North America, South America, Africa, and Australia. Dark grey dots are concentrated in South America (primarily Brazil and Chile) and Southeast Asia (including Indonesia and the Philippines). The overall distribution suggests a higher success rate in replication tests in Europe and parts of Asia, and a lower success rate in North America, South America, and Africa.

Replication Test

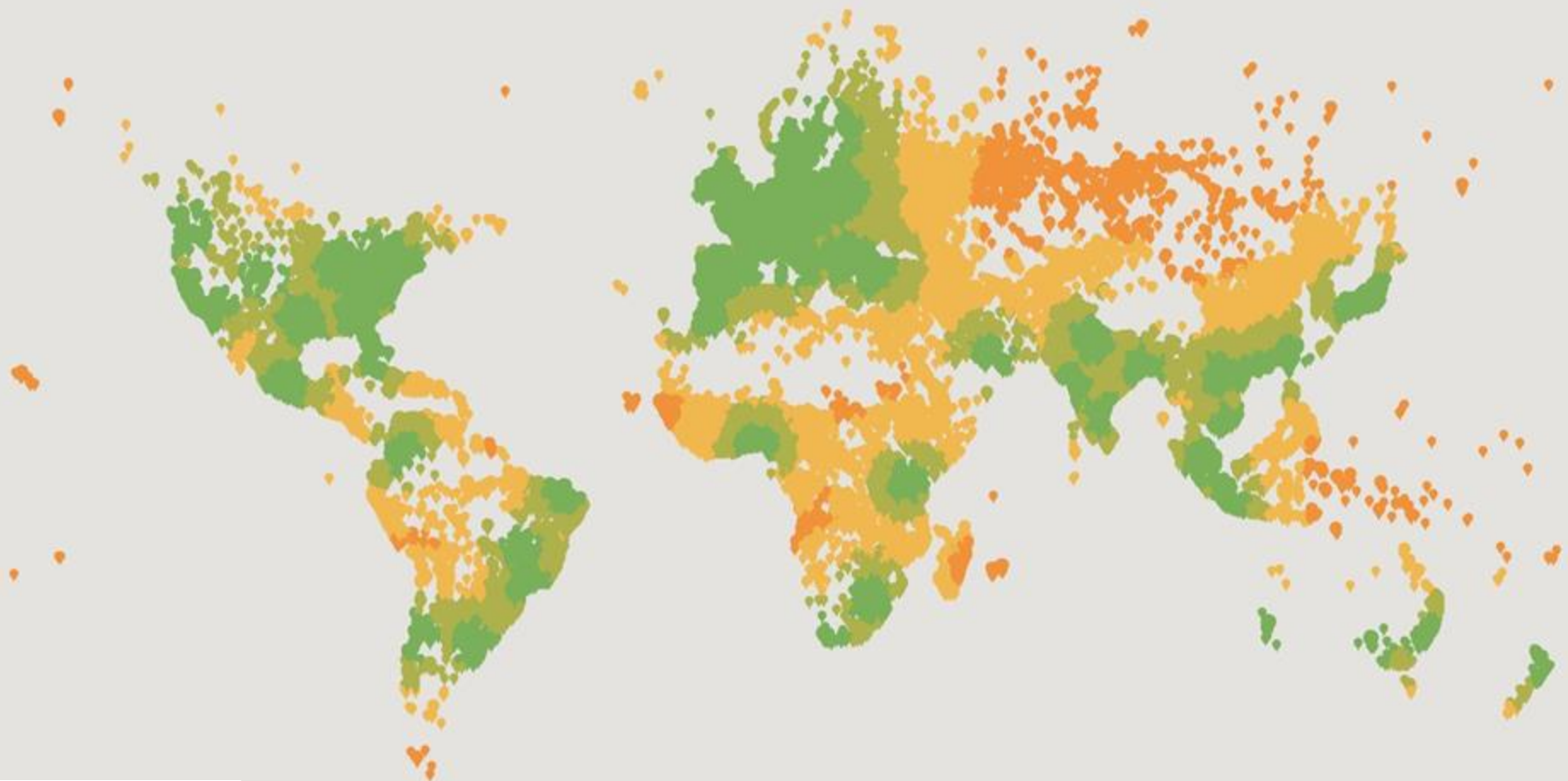




Q1 2023



Today



Potential

Total crawl requests

23.5M



Total download size (Bytes)

274B



150 ms faster

Milliseconds

300

200

100

0

10/12/22

10/23/22

11/3/22

11/14/22

11/25/22

12/6/22

12/17/22

12/28/22

DE-FRA

US-EWR

US-SFO

Search Facets Performance

▼ Scale (60)

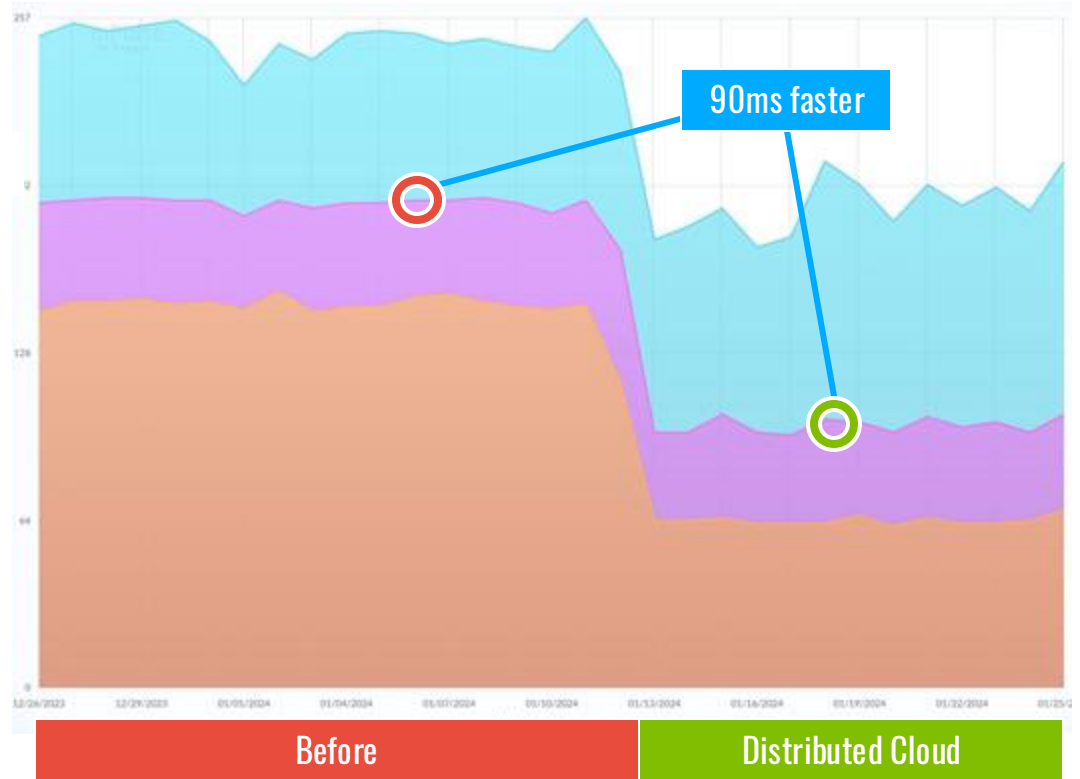
- 1:72 (171186)
- 1:48 (121042)
- 1:35 (113110)
- 1:43 (50344)
- 1:24 (47510)
- 1:32 (45394)

▼ 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!!!

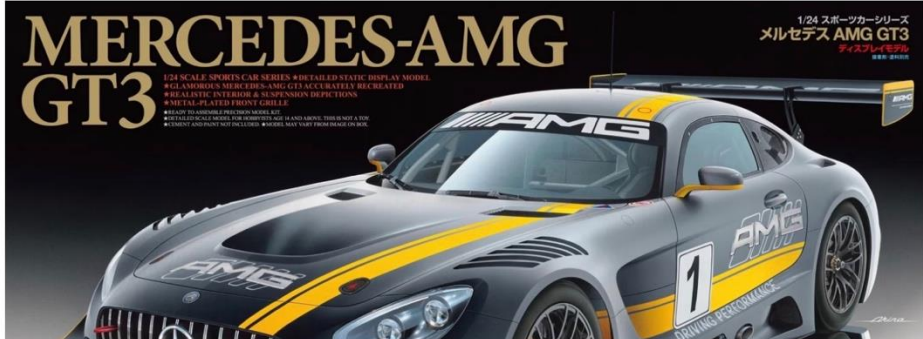
Redirect Liquidation

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

Login Register

90000+ plastic modelers use us



Request Old URL

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

Status	Type

See New URL

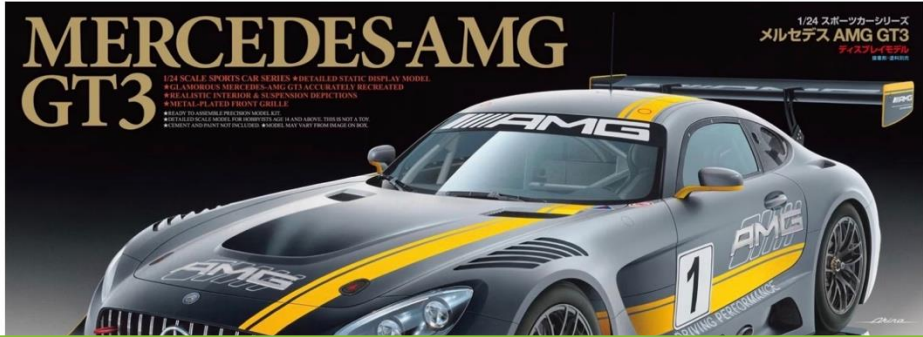
← → ↻ 🌐 scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631 ☆

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

Login Register

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MERCEDES-AMG GT3


1/24 SCALE SPORTS CAR SERIES • DETAILED SEATBELT DISPLAY MODEL
• REALISTIC INTERIOR & SUSPENSION DEPICTIONS
• REALISTIC PAINT FINISH

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



MITSUBISHI RALLIART EVOLUTION

Elements Console Sources **Network** Performance Memory Application >> ⚙️ ⋮ ✕

📶 ⬆️ ⬇️ ⚙️

Request Old URL

Status	Type
📄 tamiya-24345-old-url-amg-gt3--1093631	

See New URL

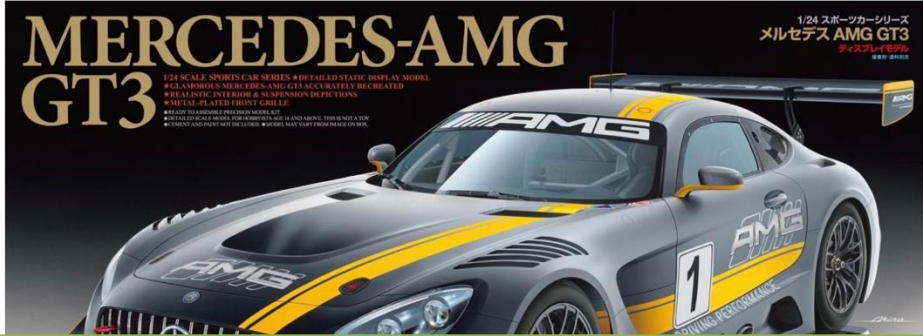
← → ↻ 🌐 scalemates.com/kits/tamiya-24345-mercedes-amg-gt3--1093631 ☆

Mercedes-AMG GT3

Tamiya | No. 24345 | 1:24

Login Register

90000+ plastic modelers use us




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
4WD DRIVEN


MERCEDES-AMG
GT3

1/24 SCALE SPORTS CAR SERIES W/RETAILED SEATBELT DISPLAY MODEL.
REGULATIONS: MERCEDES-AMG GT3 ACCURATELY RECREATED.
REALISTIC INTERIOR & SUSPENSION DEPICTIONS.
WHEELS WITH FRONT COIL-overs.
REAR W/ TRANSMISSION PROTRUSION MODEL, ETC.
REAR DRIVEN (DRIVEN FOR FRONT) AND 4-WHEEL DRIVE. THIS KIT IS A 4WD.
ASSEMBLY AND PAINT NOT INCLUDED. MODEL NOT VARY FROM IMAGE ON BOX.

New releases (Cars in 1:24)



Honda BALLADE SPORTS MUGEN CR-X PRO



MITSUBISHI GALANT EVOLUTION

Elements Console Sources **Network** Performance Memory Application >> ⚙️ ⋮ ✕

📶 ⬆️ ⬇️ ⚙️

Status	Type
200	

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

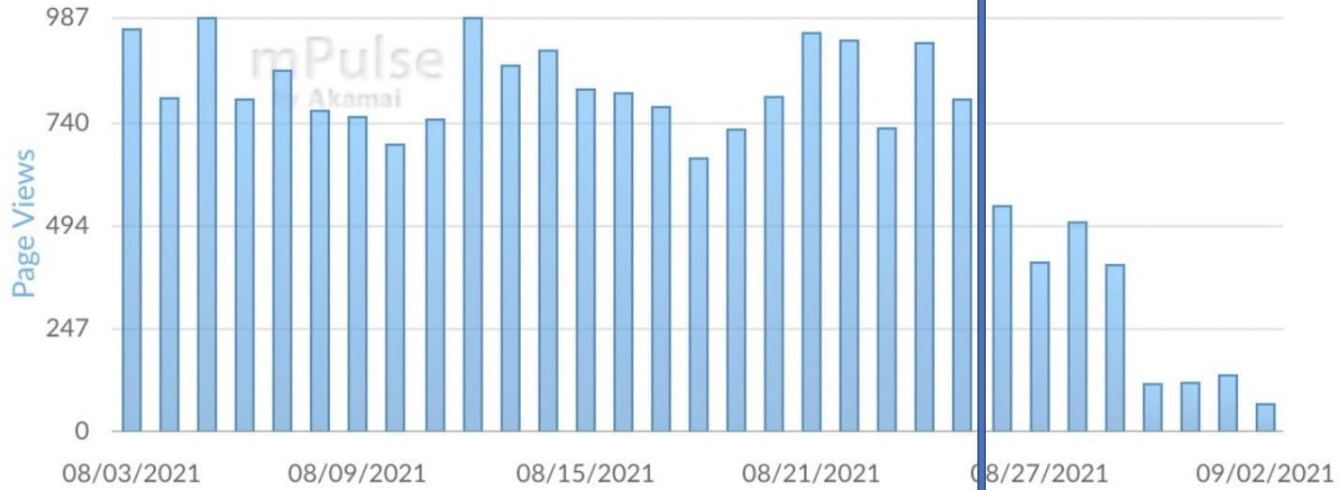
Redirect Liquidated

```
<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



Before

Partial

Full

HTML Browser Caching

#1

A
Guest

#2

B
Guest

#3

C
Guest

#4

B
Guest

#5

D
Guest

#6

A
Guest

#7

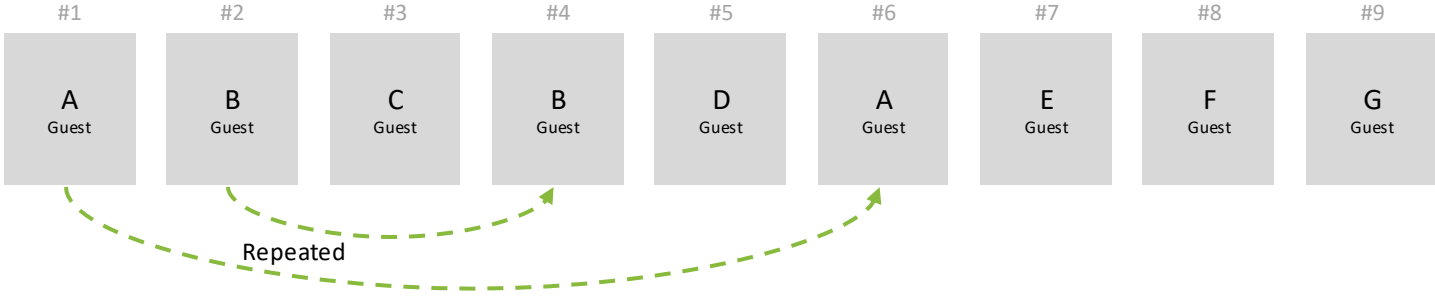
E
Guest

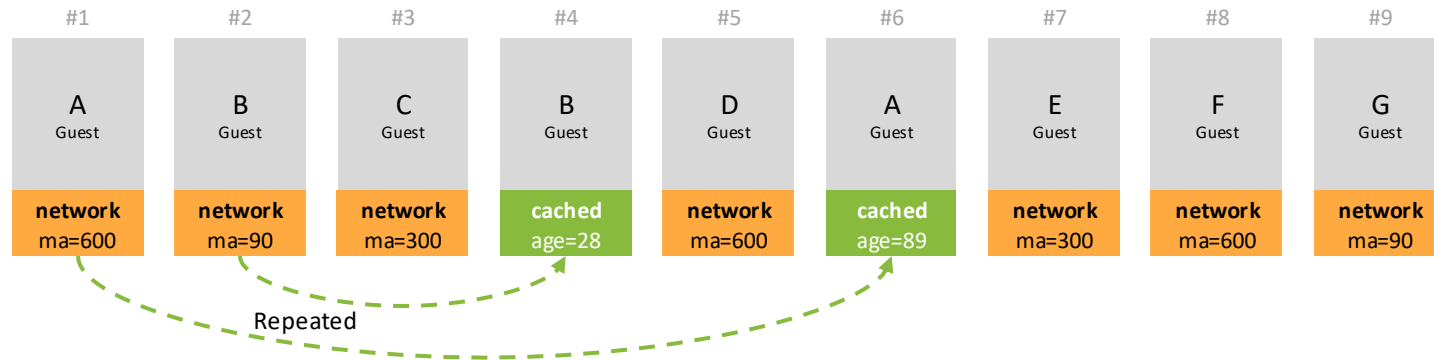
#8

F
Guest

#9

G
Guest





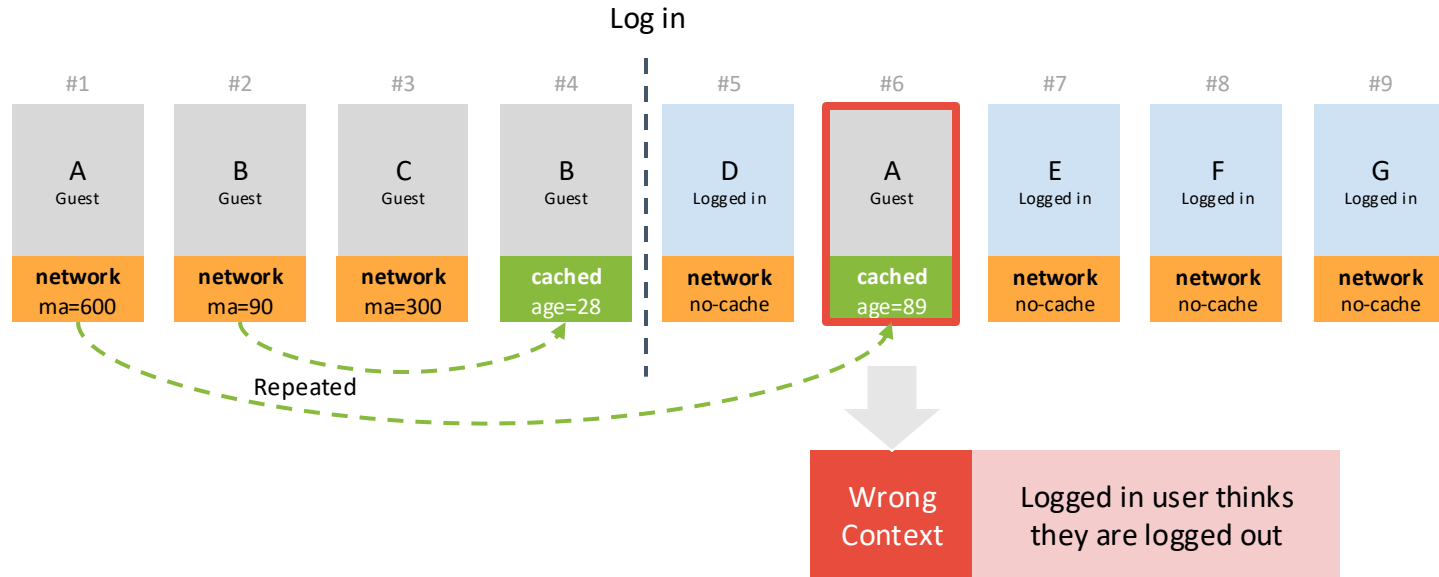
E-mail

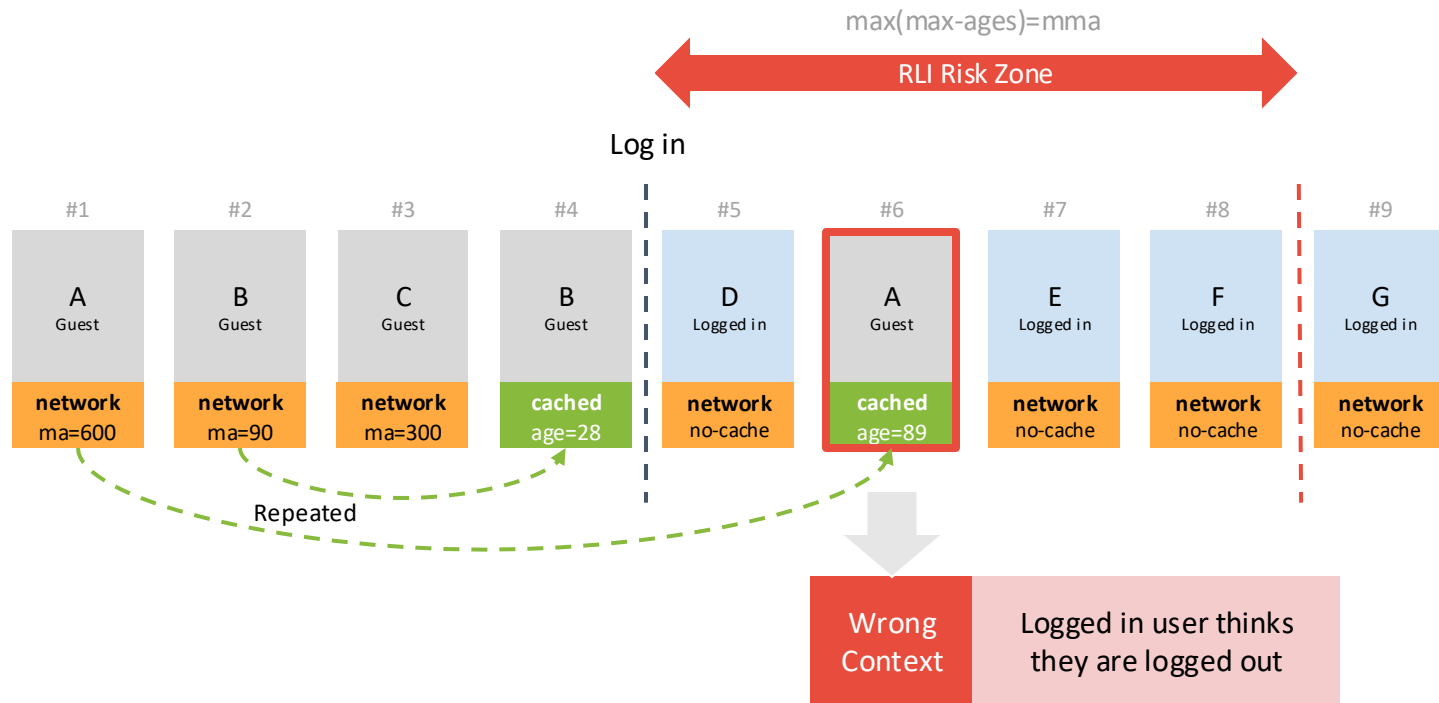
Password

Login



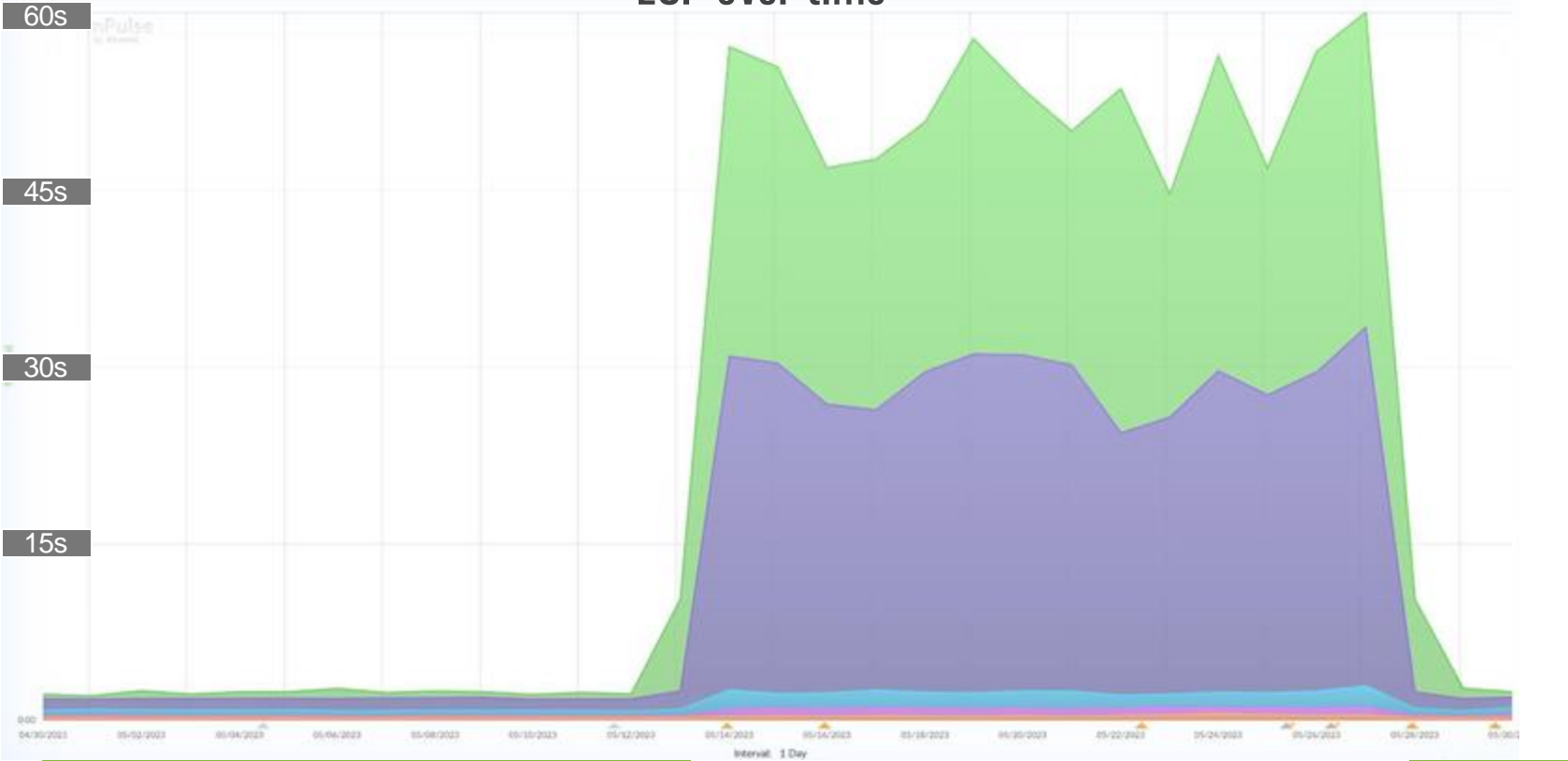
The **problem** starts
here...





Clear-Site-Data: cache

LCP over time



Before

Clear-Site-Data: cache

Reverted

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




```
▼ <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 ?rli=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

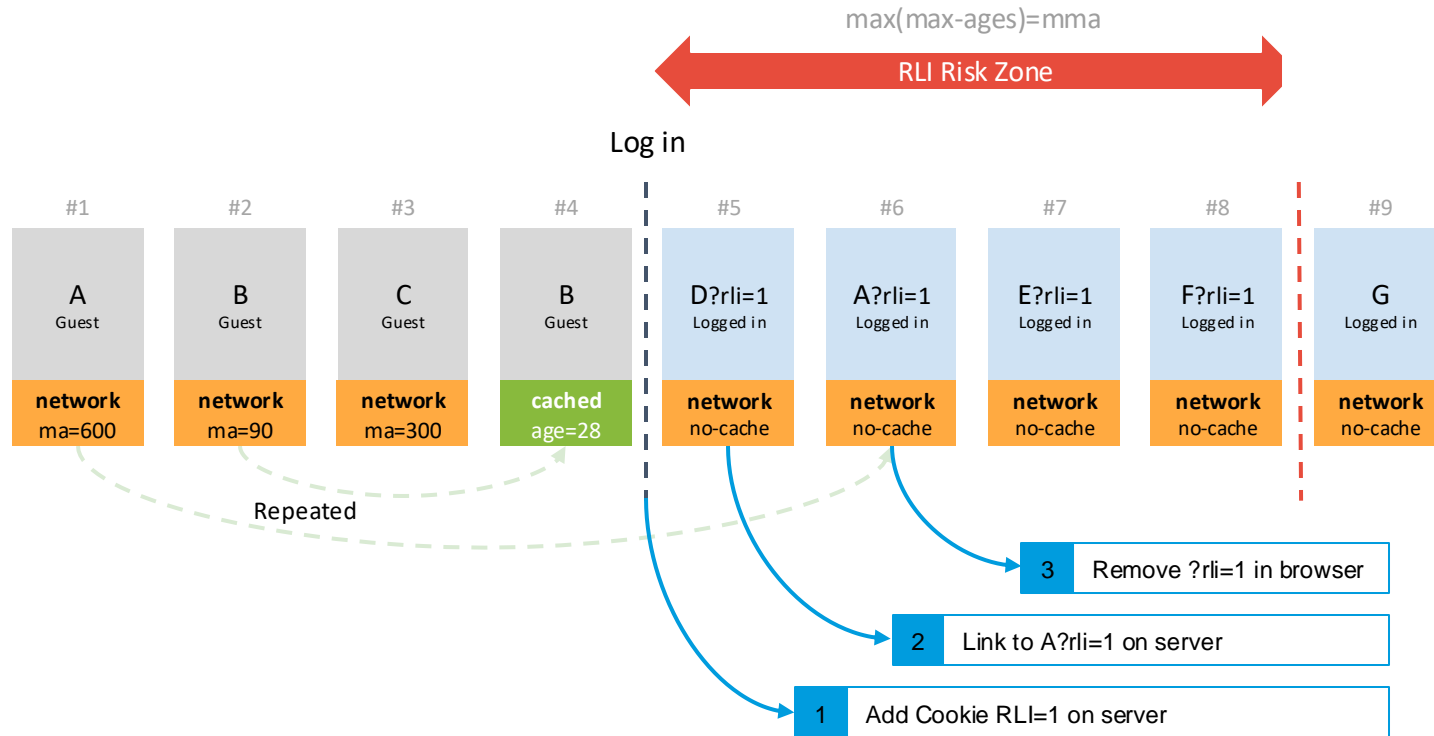
Feature requests

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> ☆ M ⋮

Speculation Rules API on Akamai

■ Dev Tips web_performance

 **Scalemates** Akamai Staff 5  Jan 29

This blog post covers how to get started with the brand new browser [Speculation Rules API](#) ⁴³ 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](#) ⁸, the largest modeling website in the world. It is powered by Akamai (lon, WAF, Image Manager) and uses [mPulse](#) ⁵ to validate performance changes.

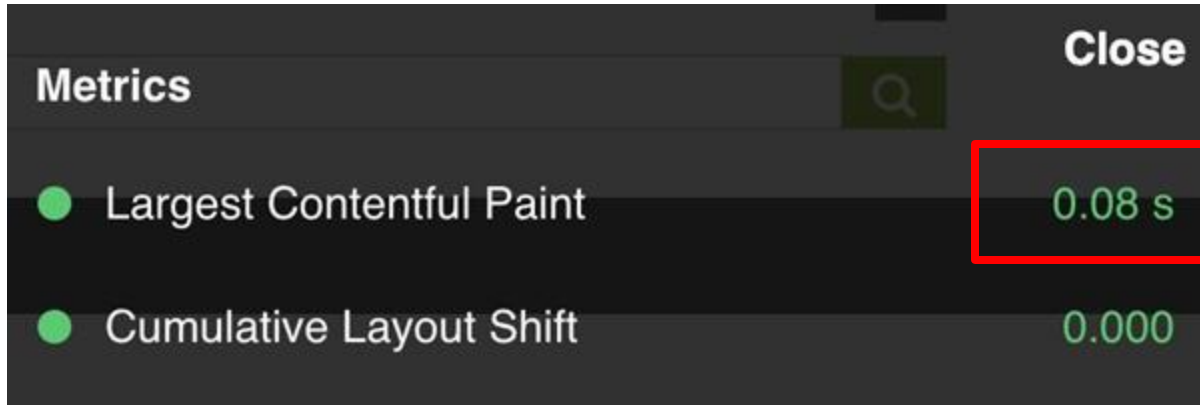
The results of this new API were impressive:

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

Results
Akamai Implementation
Options
Summary
[↓ Jump to end](#)



Nearly INSTANT performance



A screenshot of a performance metrics panel. The panel has a dark background and a 'Close' button in the top right corner. It lists two metrics: 'Largest Contentful Paint' and 'Cumulative Layout Shift'. The value for 'Largest Contentful Paint' is '0.08 s', which is highlighted by a red rectangular box. A red arrow points from the text 'Nearly INSTANT performance' to this box. The value for 'Cumulative Layout Shift' is '0.000'.

Metrics	
● Largest Contentful Paint	0.08 s
● Cumulative Layout Shift	0.000

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

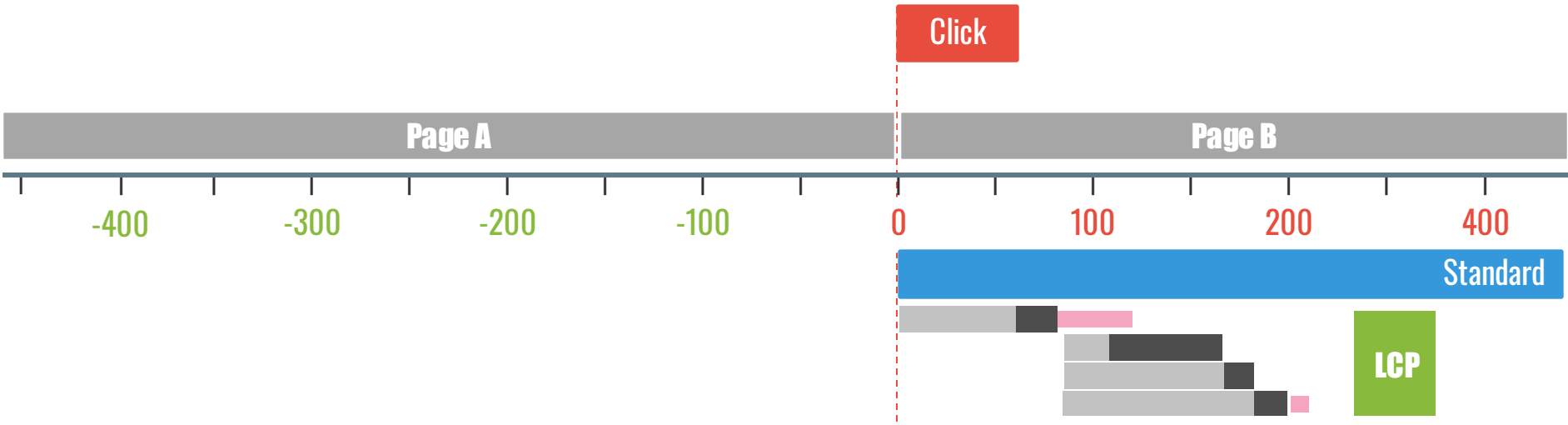

Action prerender | prefetch

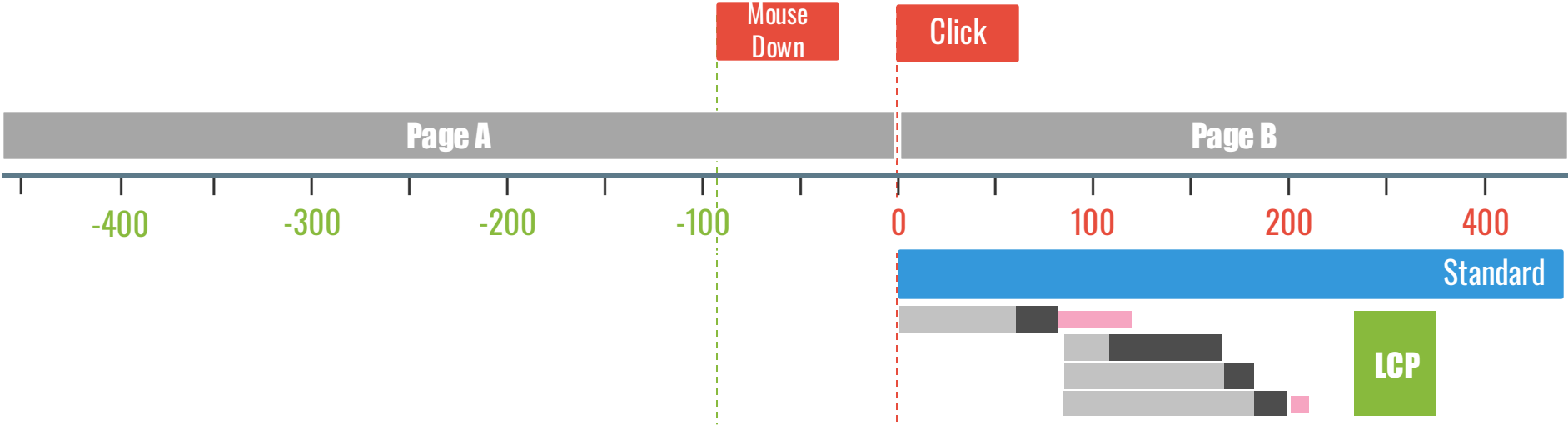
```
<script type="speculationrules">  
  {"prerender":  
    [{"source": "document", "where": {"selector_matches": "nav a, a.article"}, "eagerness": "moderate"}  
  ]}  
</script>
```

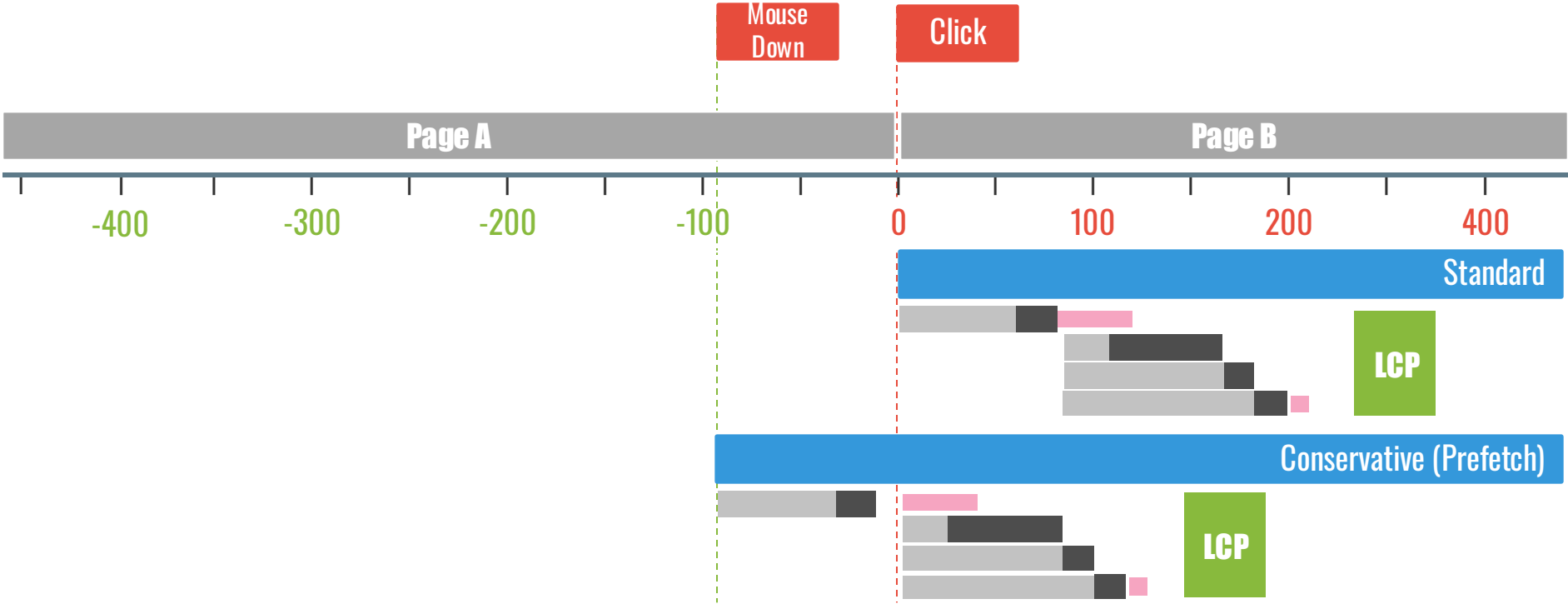
Action
prerender | prefetch

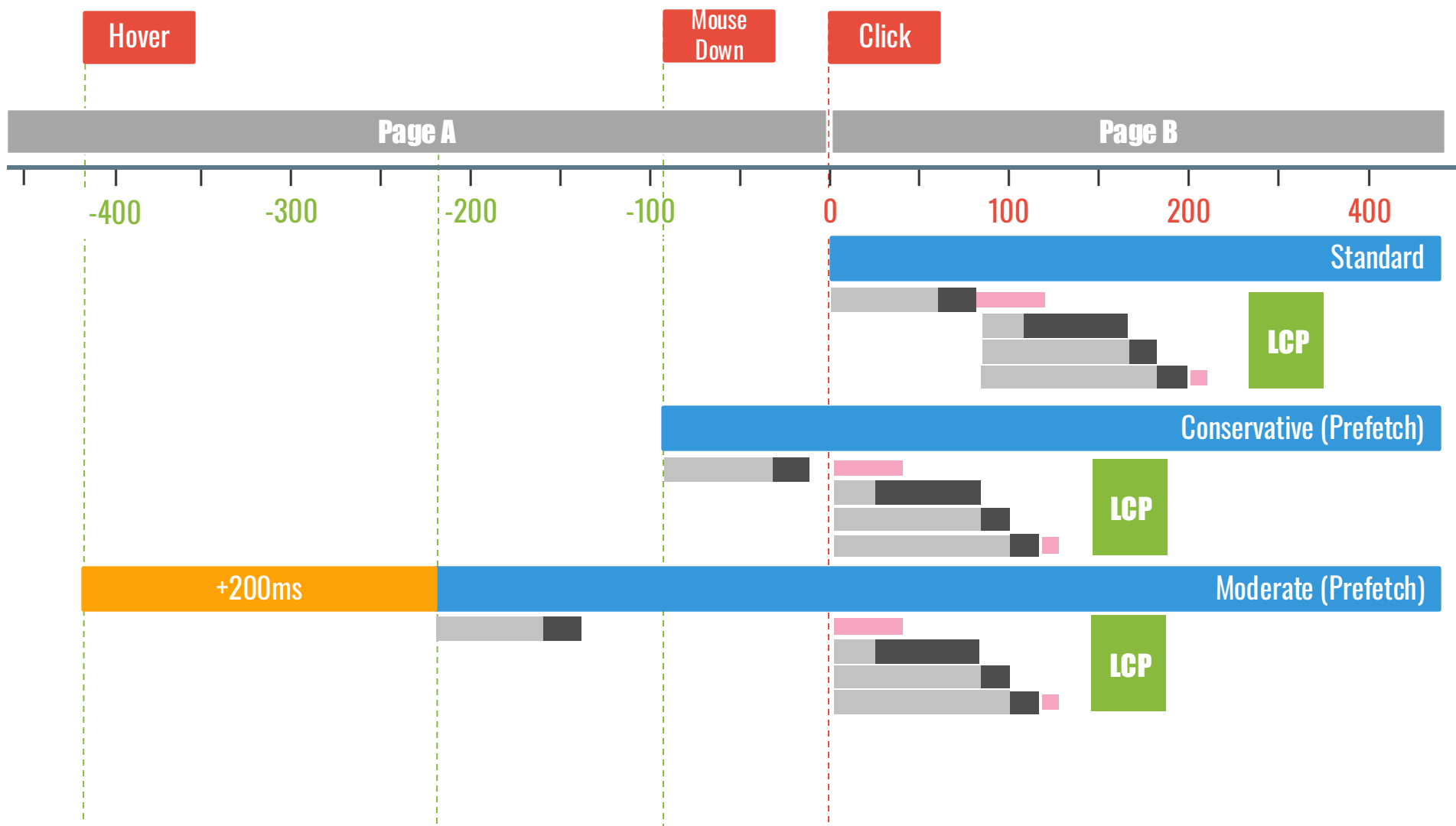
```
<script type="speculationrules">  
  {"prerender":  
    [{"source": "document", "where": {"selector_matches": "nav a, a.article"}, "eagerness": "moderate"}  
  ]}  
</script>
```

Eagerness
eager | moderate | conservative









Hover

Mouse
Down

Click

Page A

Page B

-400

-300

-200

-100

0

100

200

400

Standard

LCP

Conservative (Prefetch)

LCP

+200ms

Moderate (Prefetch)

LCP

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 (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 (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

Hover

Mouse
Down

Click

Page A

Page B

-400

-300

-200

-100

0

100

200

400

Standard

LCP

Conservative (Progressive)

LCP

+200ms

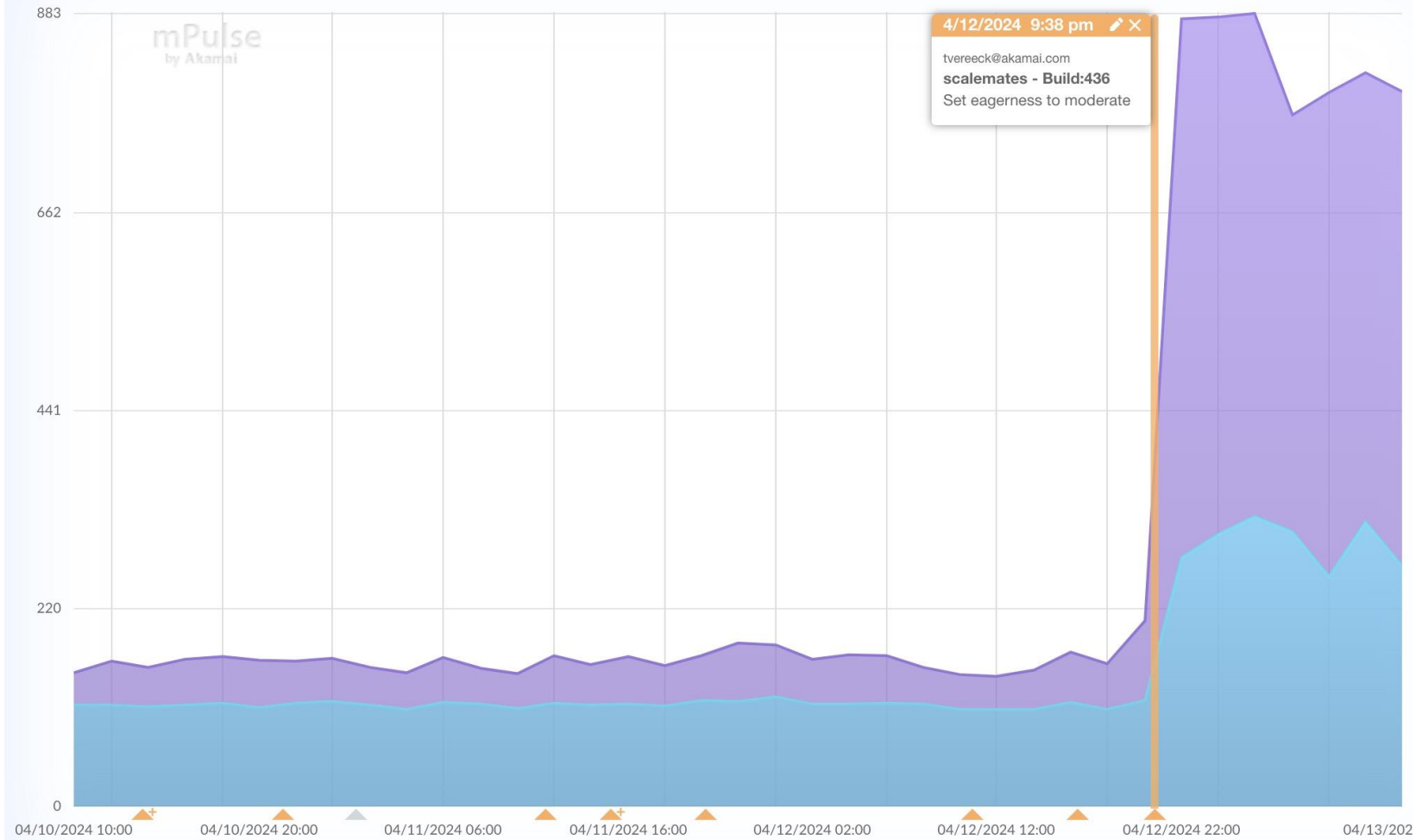
Moderate (Progressive)

LCP

1

2

ActivationStart (last 3 days)



Pushing the limits
INP

php

MPA

Beyond CWV

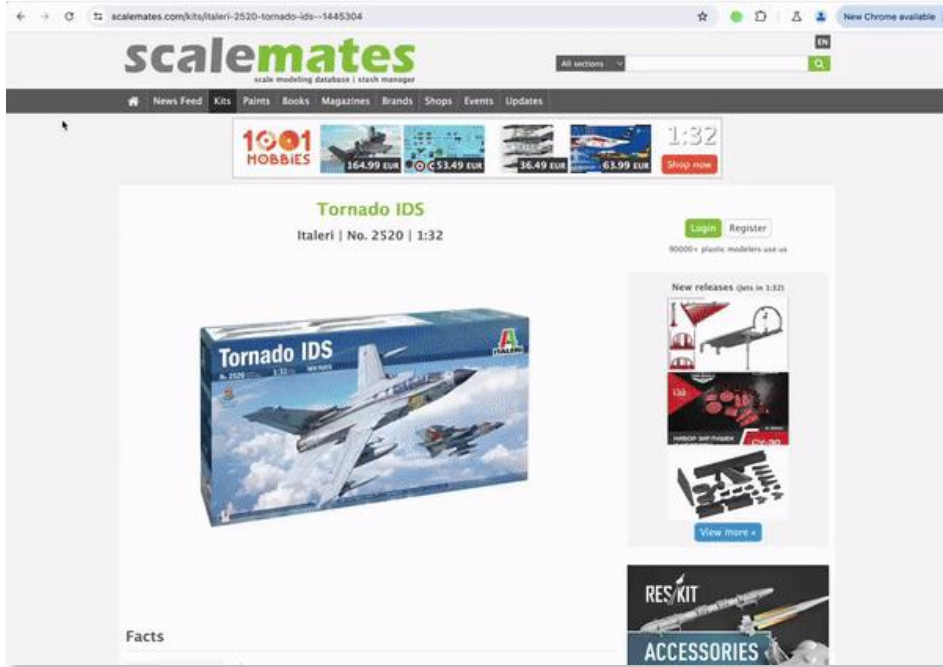
1080px



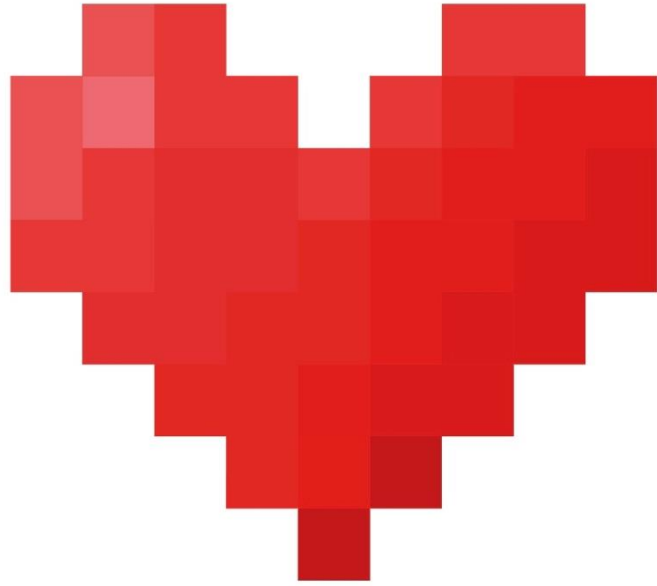
2.25x
more pixels



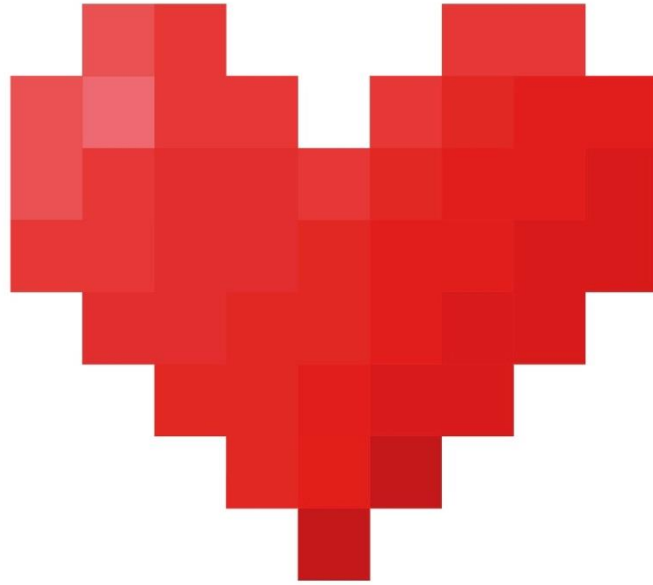
720px



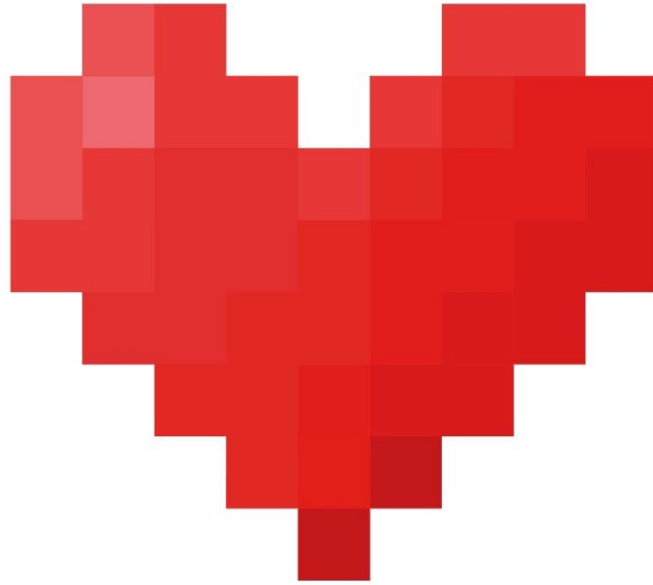
View Transitions
100ms “slower”



CORE WEB VITALS



P75



P99

Thank you!



@TimVereecke

Questions?



@TimVereecke

Past 4 Years

