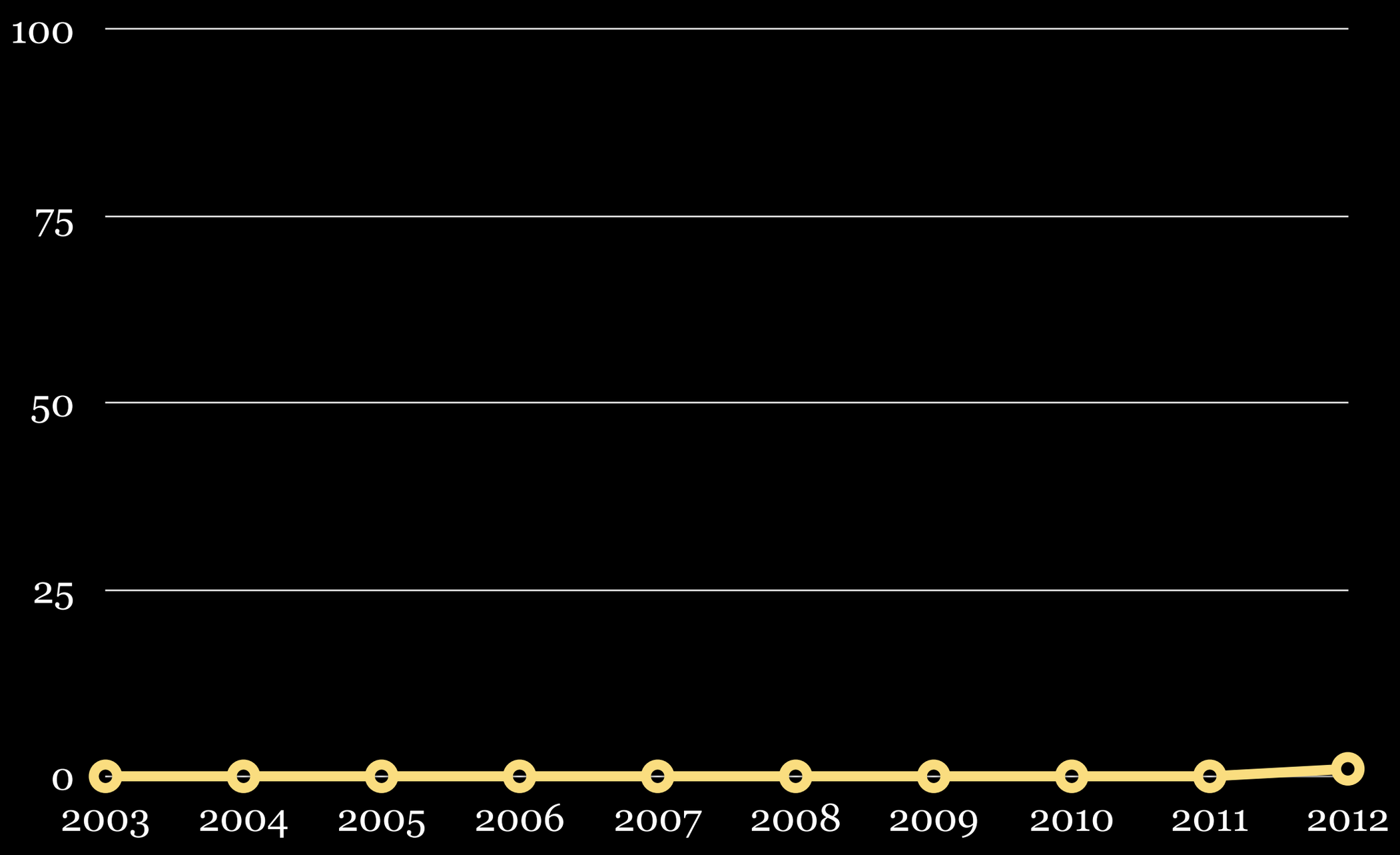
Post-burnout presenting

IPv6 takeup


100
75
50
25
0
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012

“Say what you’re going to say,
then say it,
then say what you’ve said.”

“Three bullet points per slide.”

“The thirteen important things to remember are…”

1: You only ever get to talk about one thing.

2: Tell a story.

2: Tell a story.
(Story > slides)

3: Rehearse, rehearse, rehearse.

1: You only ever get to talk about one thing.

2: Tell a story.

3: Rehearse, rehearse, rehearse.

How to fix wifi

Step 1: Send someone to check it out
after the lecture is already over

Step 1: Send someone to check it out after the lecture is already over

Step 2: Give up

How to fix wifi

How to fix wifi with crowdsourced monitoring

How to fix wifi

with crowdsourced monitoring

GN4 SA3T3

How to fix wifi

with crowdsourced monitoring

GN4 SA3T3

How to fix wi

wit

ring

1: You only ever get
to talk about one thing.

GN4 SA3T3

Probes

Probes

Probes

<u>Upside</u>

Measurements are objective

Reliable, comparable results

Probes

Upside	Downside
Measurements are objective	Installation cost
Reliable, comparable results	Not seeing exactly what the user sees

Probes

Upside	Downside
Measurements are objective	Installation cost
Reliable, comparable results	Not seeing exactly what the user sees

Probes

<u>Upside</u>

Measurements are objective

Reliable, comparable results

<u>Downside</u>

Installation cost

Not seeing exactly what the user sees

2: Tell a story

Has performance changed in this room over time?

Has performance changed in this room over time?

Is the problem common to this room,
or this user's device?

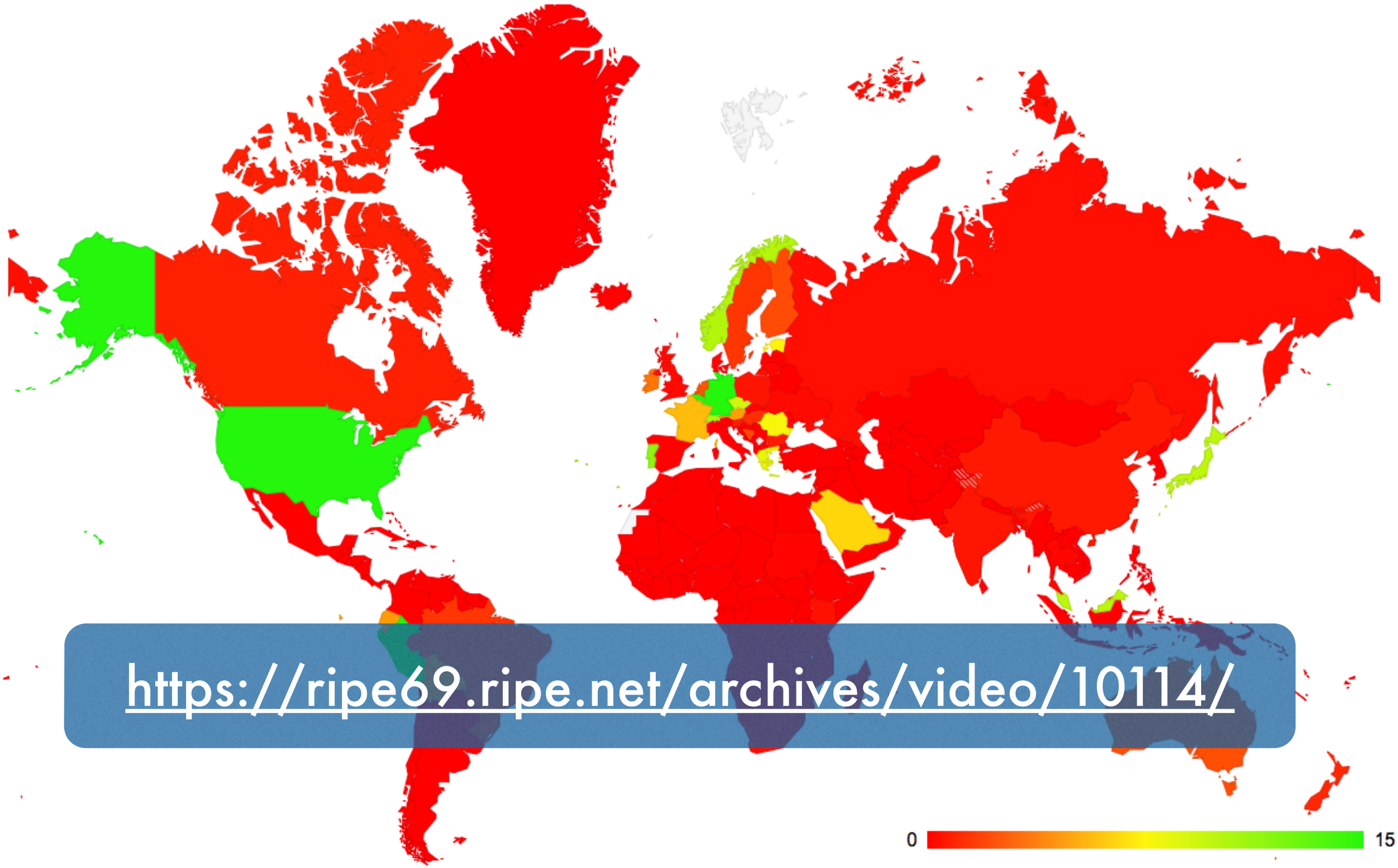
Has performance changed in this room over time?

Is the problem common to this room,
or this user's device?

What should I prepare for in capacity planning?

stats.labs.apnic.net/ipv6/

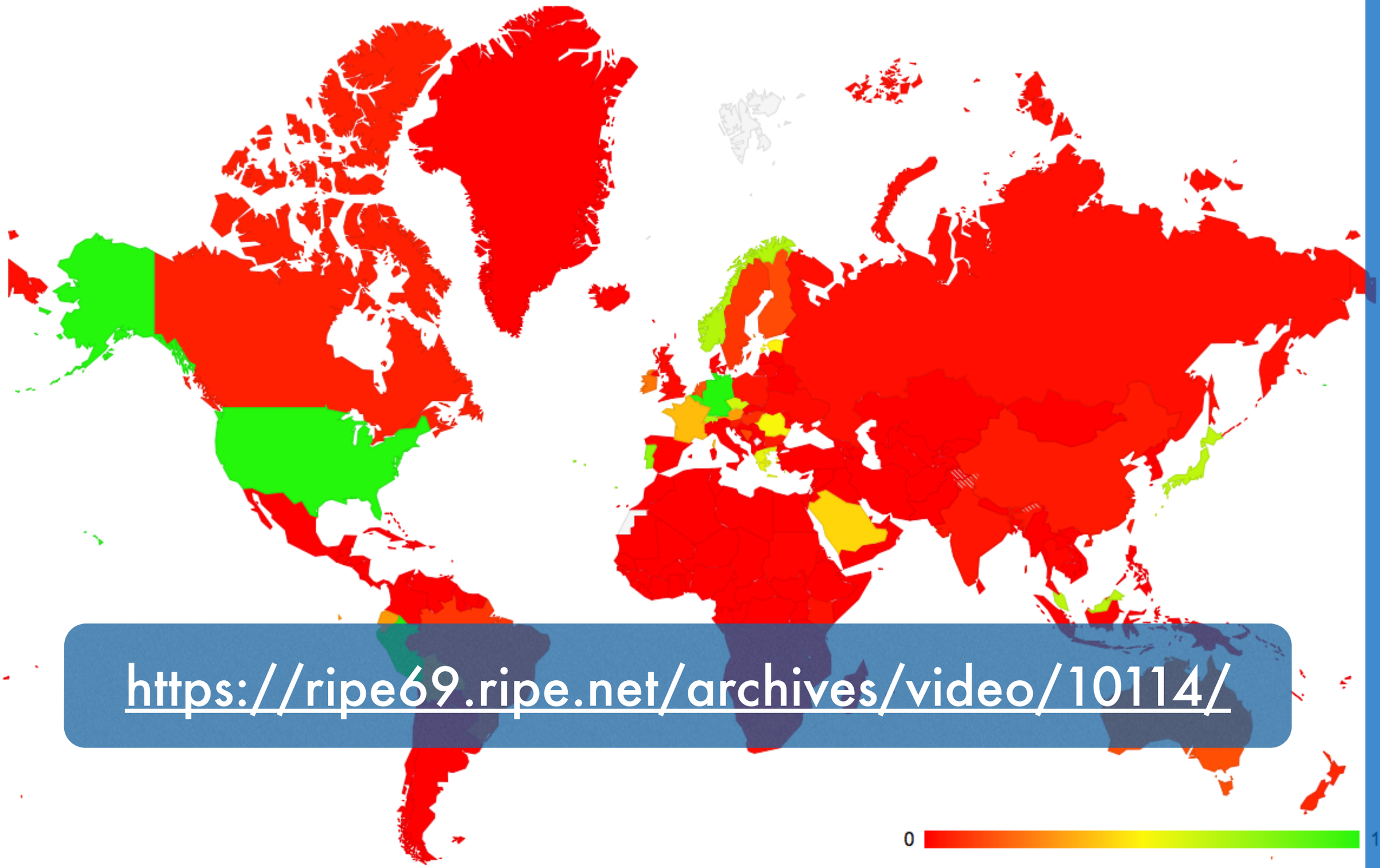
IPv6 Capable Rate by country (%)



https://ripe69.ripe.net/archives/video/10114/

stats.labs.apnic.net/ipv6/

IPv6 Capable Rate by country (%)



https://ripe69.ripe.net/archives/video/10114/

What we need
ID of access point
Performance result
Timestamp

What we need	Javascript
ID of access point	
Performance result	Performance result
Timestamp	Timestamp
	IP address

What we need	Javascript	RADIUS/DHCP
ID of access point		ID of access point
Performance result	Performance result	
Timestamp	Timestamp	Timestamp
	IP address	IP address

What we need	Javascript	RADIUS/DHCP
ID of access point		ID of access point
Performance result	Performance result	
Timestamp	Timestamp	Timestamp
	IP address	IP address

Try it out?

Try it out?

Try it out?

Web Inspector — tnc15.terena.org

Resources | Timelines | Debugger | Console | 48 | – | – | 0 | 0 | 0 | Inspect | Resource

Search Resource Content

- tnc15.terena.org
  - Images
  - Scripts
  - Stylesheets
  - Cookies — tnc15.terena.org
- Extension Scripts
- Local Storage — tnc15.terena.org
- Session Storage — tnc15.terena.org

Filter Resource List

tnc15.terena.org 〉 Source Code

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"><html
xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<title>TNC15</title><link href="/includes/tnc15/css/base.css" media="screen" rel="stylesheet" type="text/css" />
<link href="/includes/tnc15/css/home.css" media="screen" rel="stylesheet" type="text/css" />
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<meta http-equiv="Content-Language" content="en-US" /><script type="text/javascript" src="/js/jquery-ui/js/jquery.min.js">
</script><script type="text/javascript" src="/js/terena.js?v=1"></script>
<script>
  (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
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  })(window,document,'script','//www.google-analytics.com/analytics.js','ga');

  ga('create', 'UA-26252940-8', 'auto');
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</script>

<!-- wifimon - dandwidth monitoring project by Dave Wilson. Only works on TNC15 Wi-Fi networks -->
<script type="text/javascript" src="https://vm3-gn3-sa2t5.vm.grnet.gr/nettest-0.9a/js/nettest-swfobject.js"></script>
<script src="https://vm3-gn3-sa2t5.vm.grnet.gr/nettest-0.9a/js/jquery-1.11.2.min.js"></script>
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</head>
<body>

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    <div id="nav-main">
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                                <li id="Login"><a href="https://tnc15.terena.org/core/user/login">Sign in</a></li>
                            </ul>
    </div>
    <div id="section_bg">
        <div id="logo">
            <a title="Visit the GEANT website" href="http://www.geant.org"><img id="terena"
src="/includes/tnc15/gfx/logos/geant_header.png" alt="GEANT logo" /></a>
```

Type

MIME Type	text/html
Resource Type	Document

Location

Full URL	https://tnc15.terena.org/
Scheme	https
Host	tnc15.terena.org
Path	/

Request & Response

Method	–
Cached	No
Status	–
Code	–
Encoded	–
Decoded	–
Transfered	–
Compressed	No

Request Headers

No Request Headers

Response Headers

No Response Headers

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"><html
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Console

Inspect

tnc15.terena.org › Source Code

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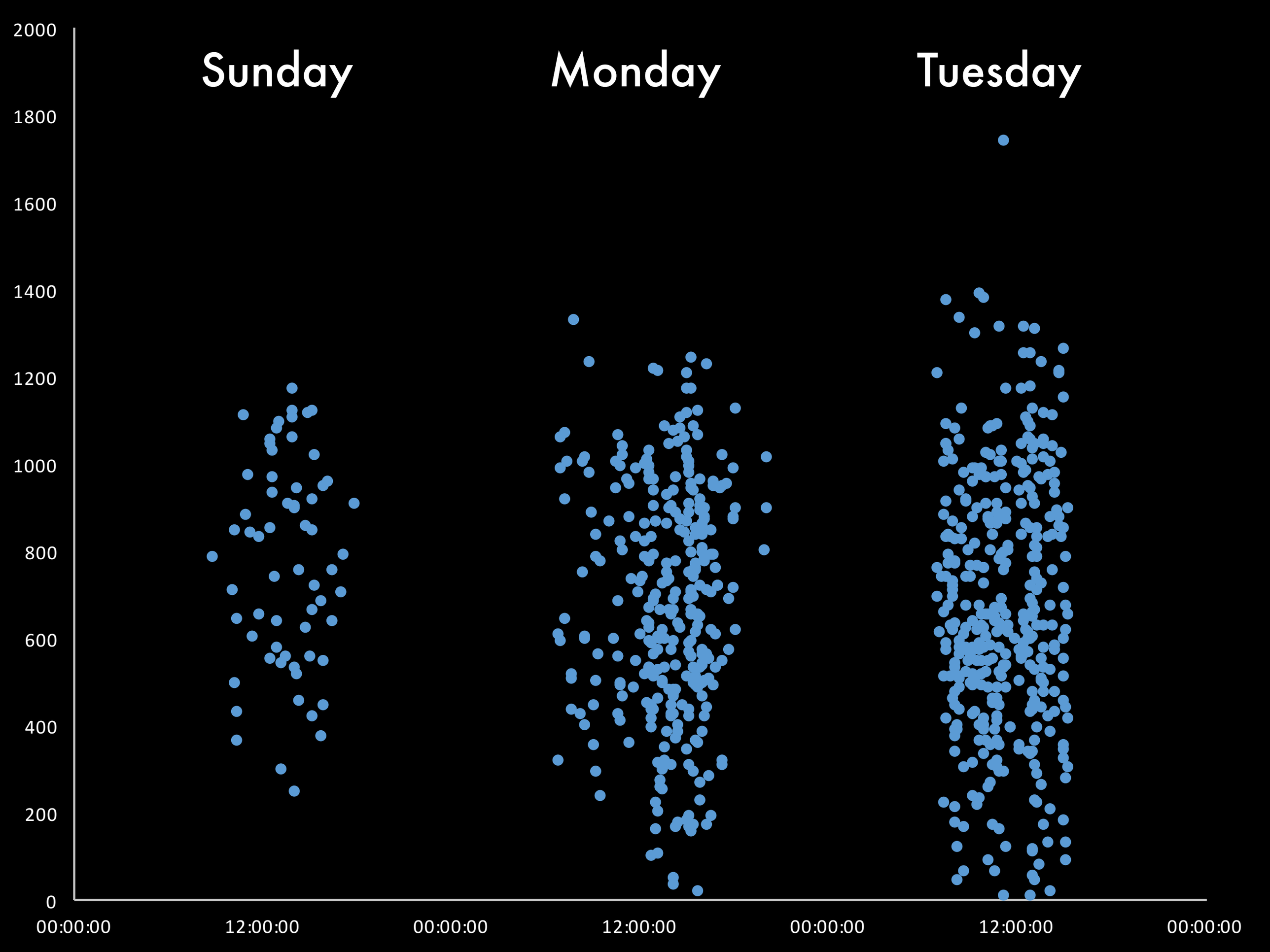
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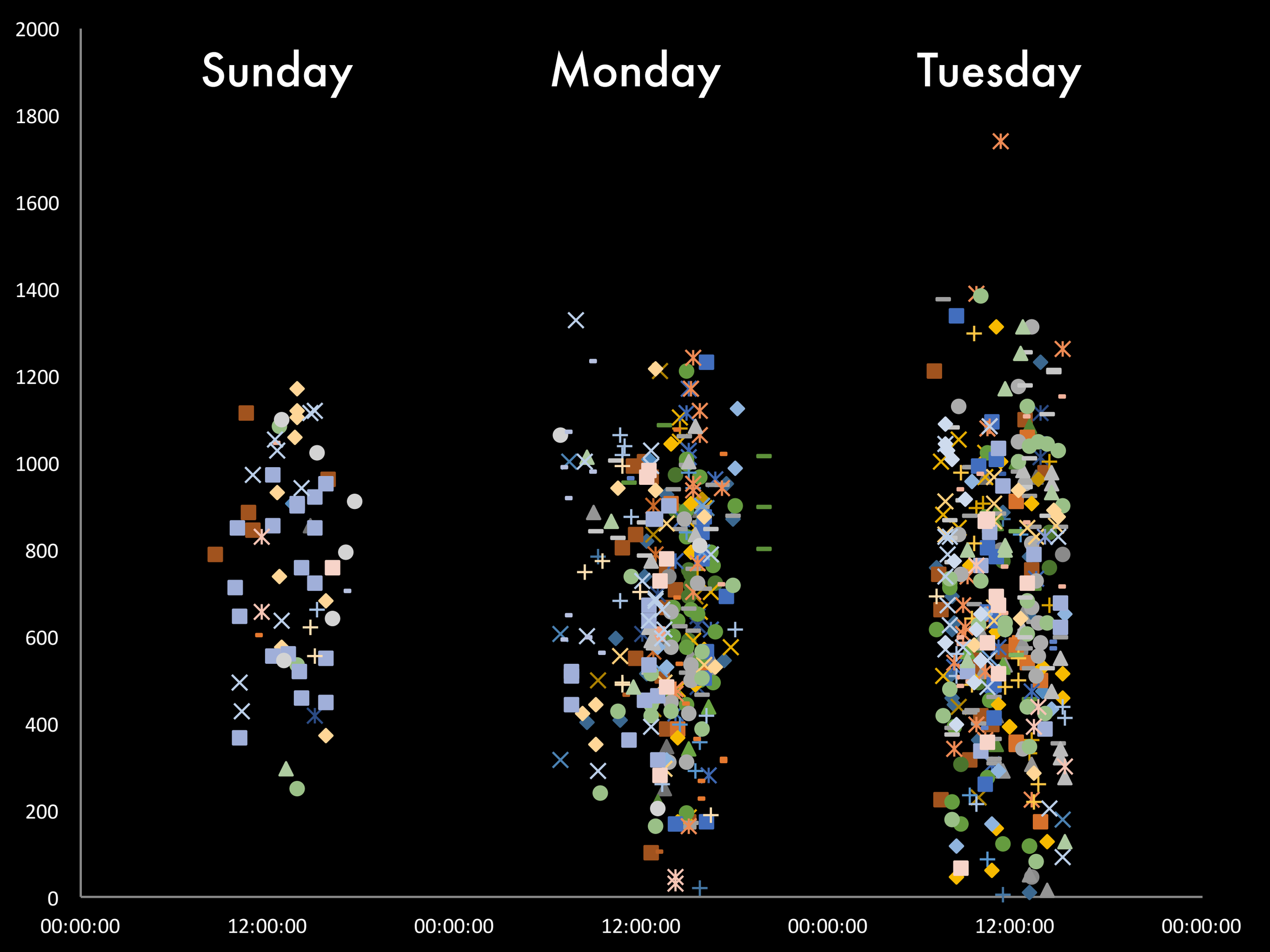
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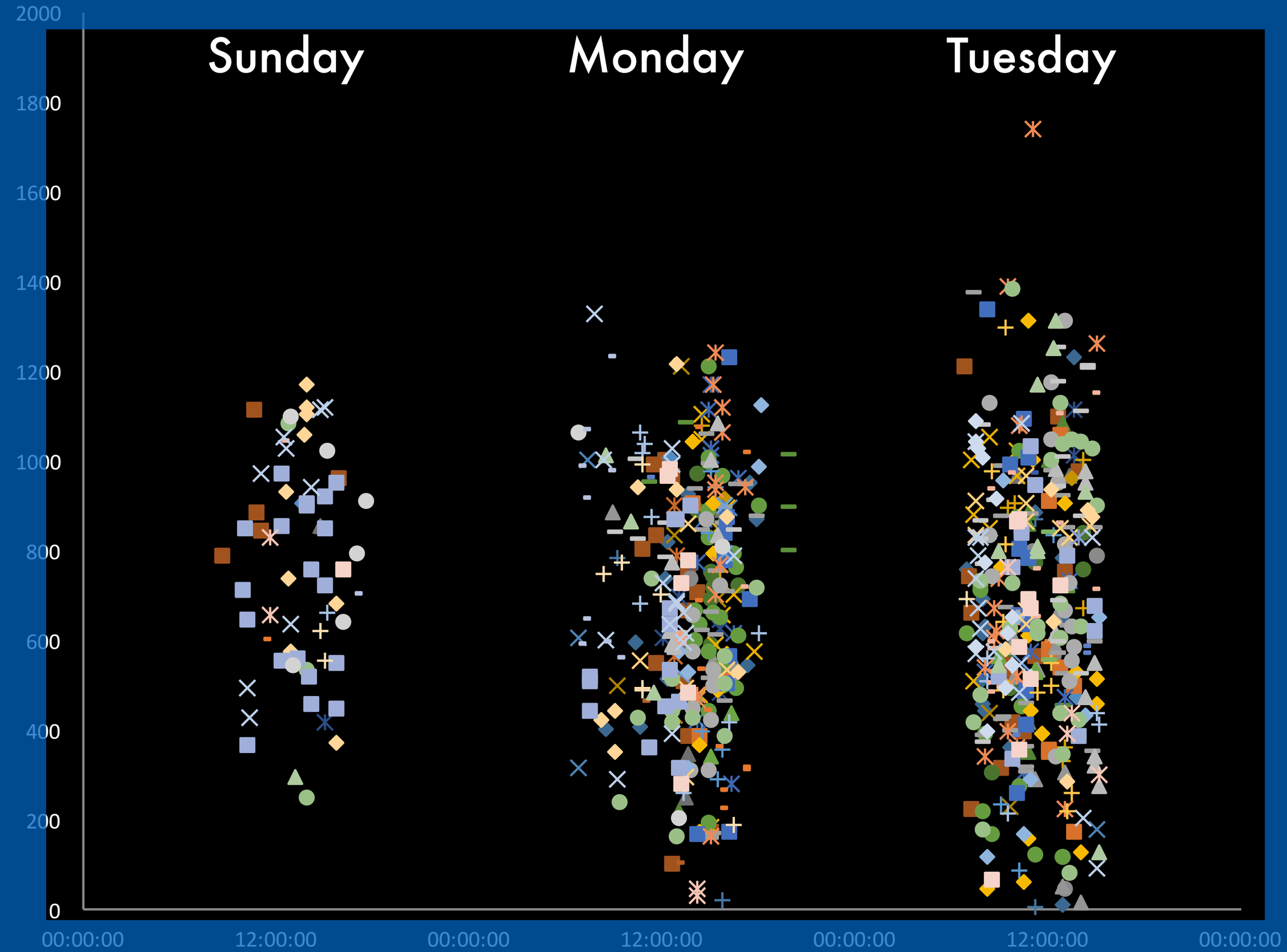
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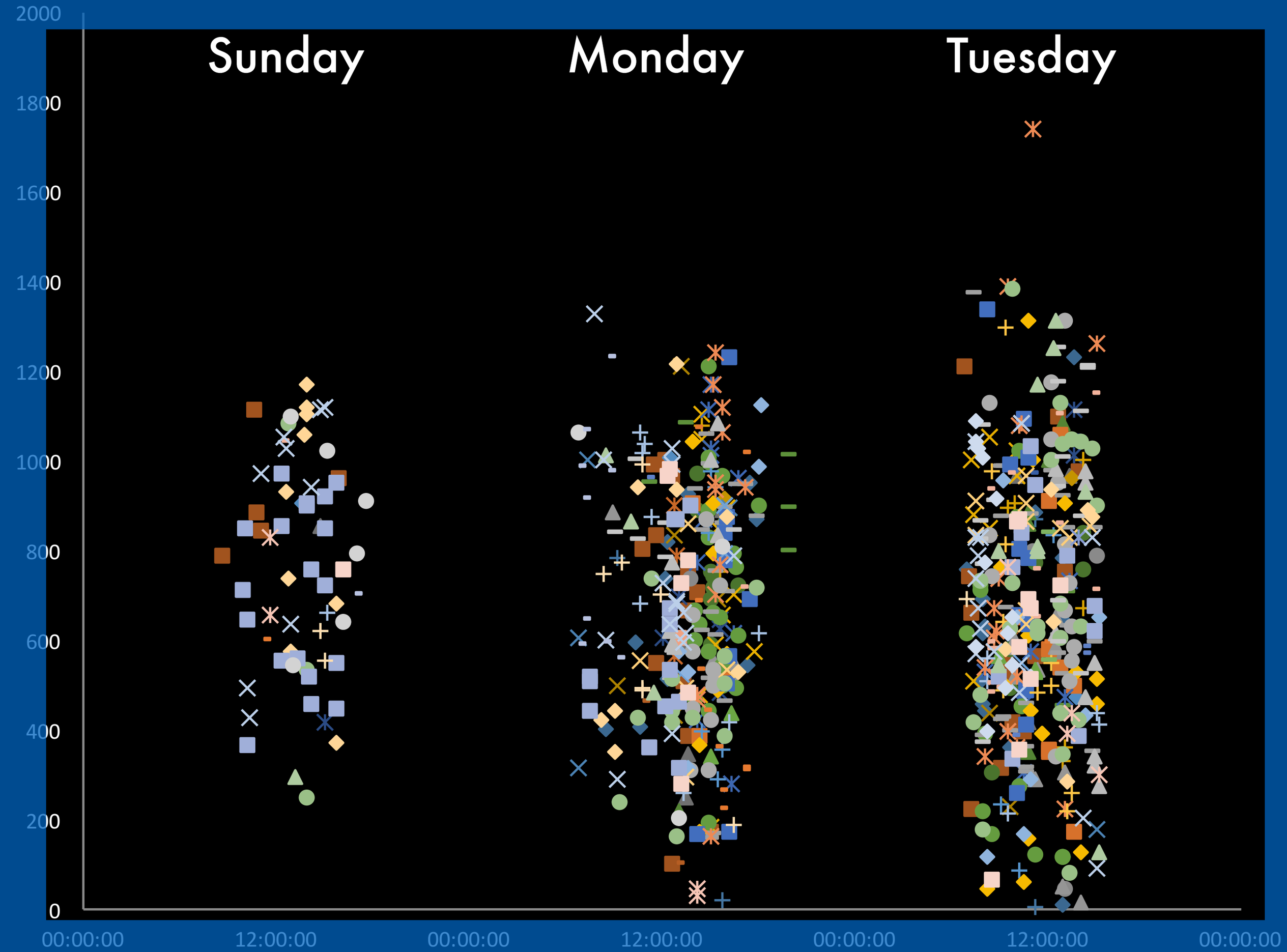
Agenda

- Why measuring wifi is so difficult
- Other methods of monitoring
- Our technical approach
- Results from this event
- Conclusions and next steps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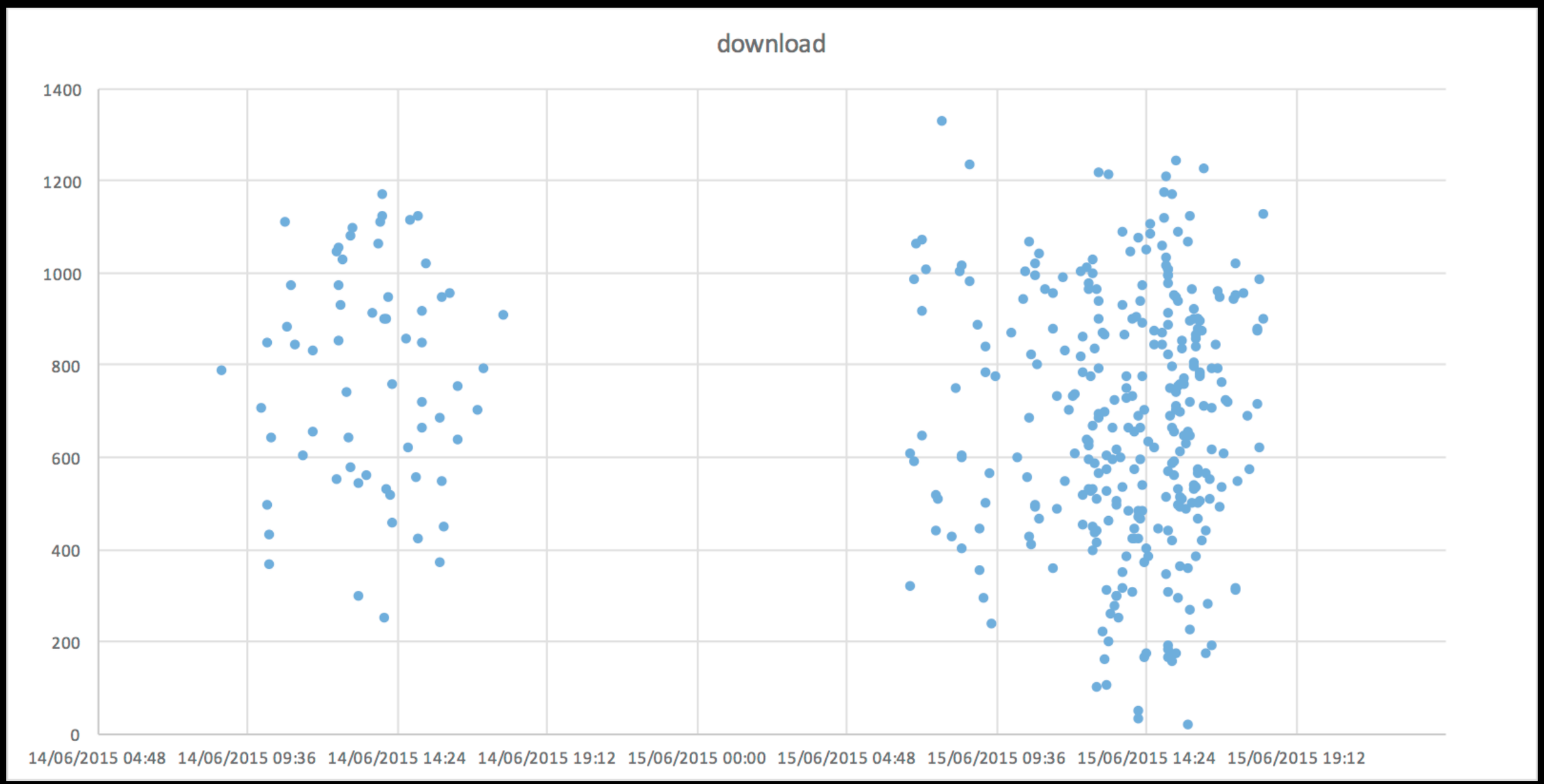
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800
600
400
200
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14/06/2015 09:36
14/06/2015 14:24
14/06/2015 19:12
15/06/2015 00:00
15/06/2015 04:48
15/06/2015 09:36
15/06/2015 14:24
15/06/2015 19:12

Monday

Tuesday

2000
1800
1600
1400
1200
1000
800
600
400
200
0

12:00:00
18:00:00
00:00:00
06:00:00
12:00:00
18:00:00

plenary1 plenary2 plenary3 plenary4 plenary5 plenary6 plenary7 plenary8 plenarystage1 plenarystage2

Monday

1400
1200
1000
800
600
400
200
0

09:00:00 10:00:00 11:00:00 12:00:00 13:00:00 14:00:00 15:00:00 16:00:00 17:00:00 18:00:00 19:00:00

posters1 posters2 posters3 posters4 posters5 posters6 posters7 posters8

Monday

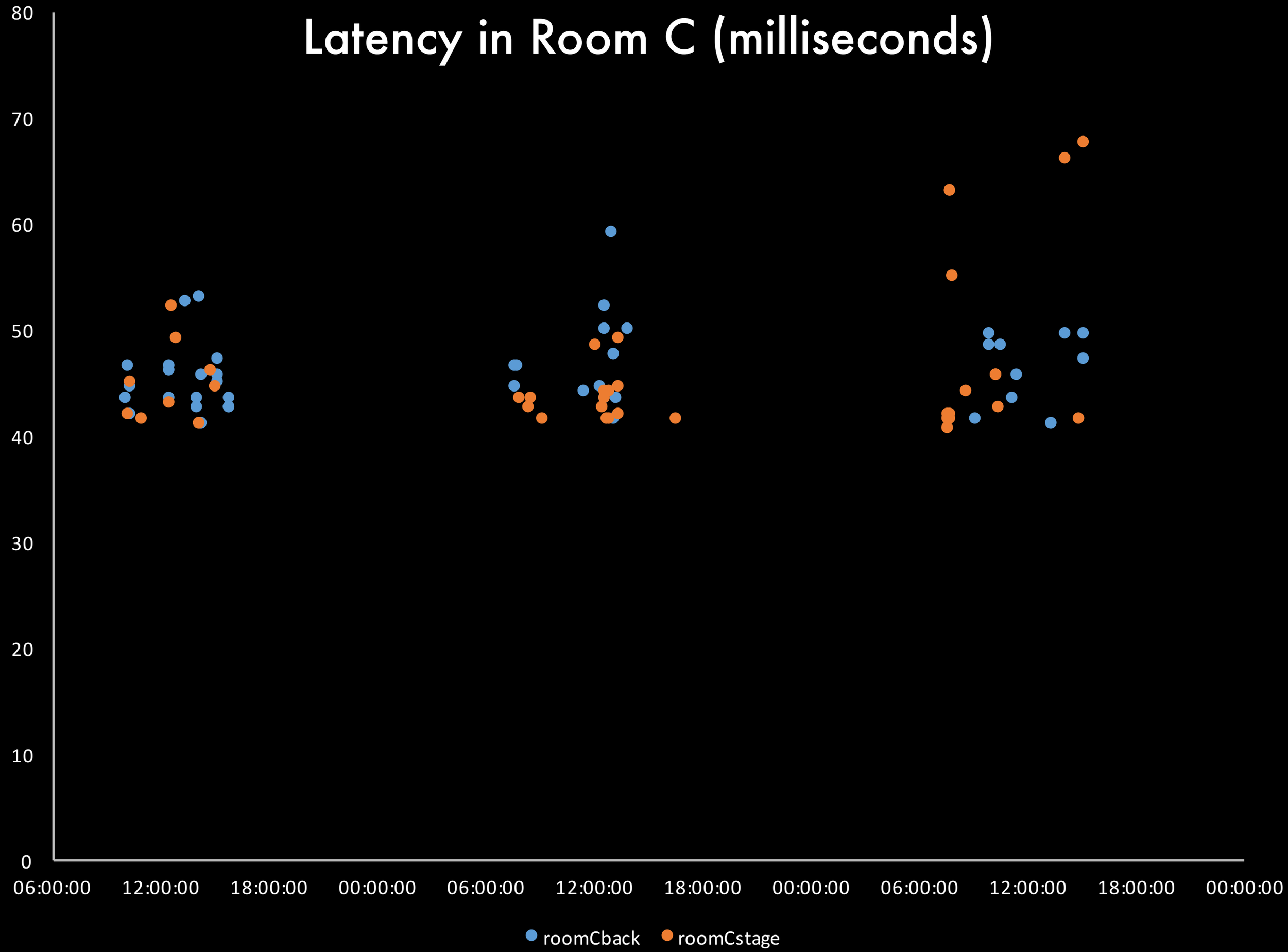
1400
1200
1000
800
600
400
200
0

Lunch
Break
Evening

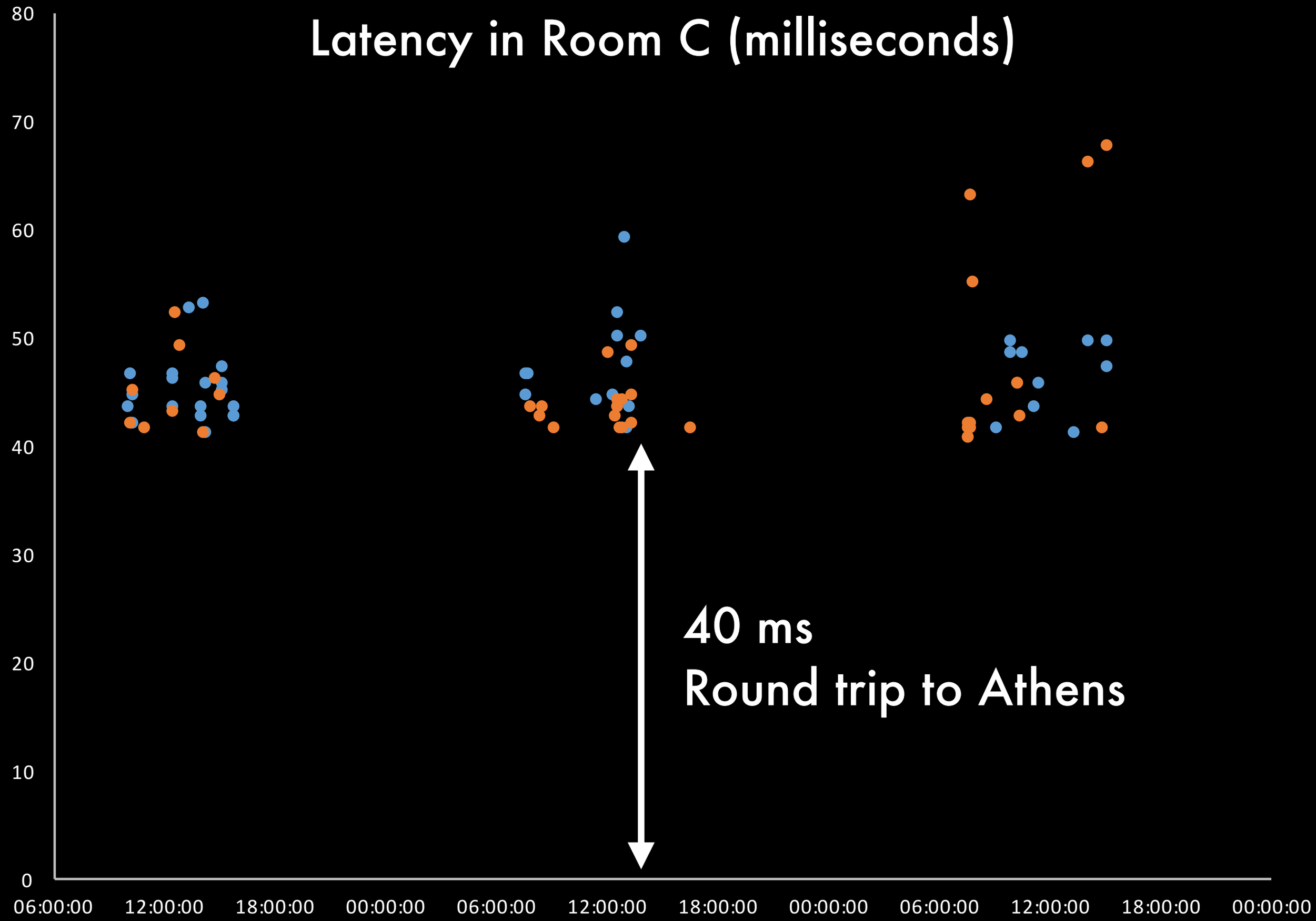
09:00:00 10:00:00 11:00:00 12:00:00 13:00:00 14:00:00 15:00:00 16:00:00 17:00:00 18:00:00 19:00:00

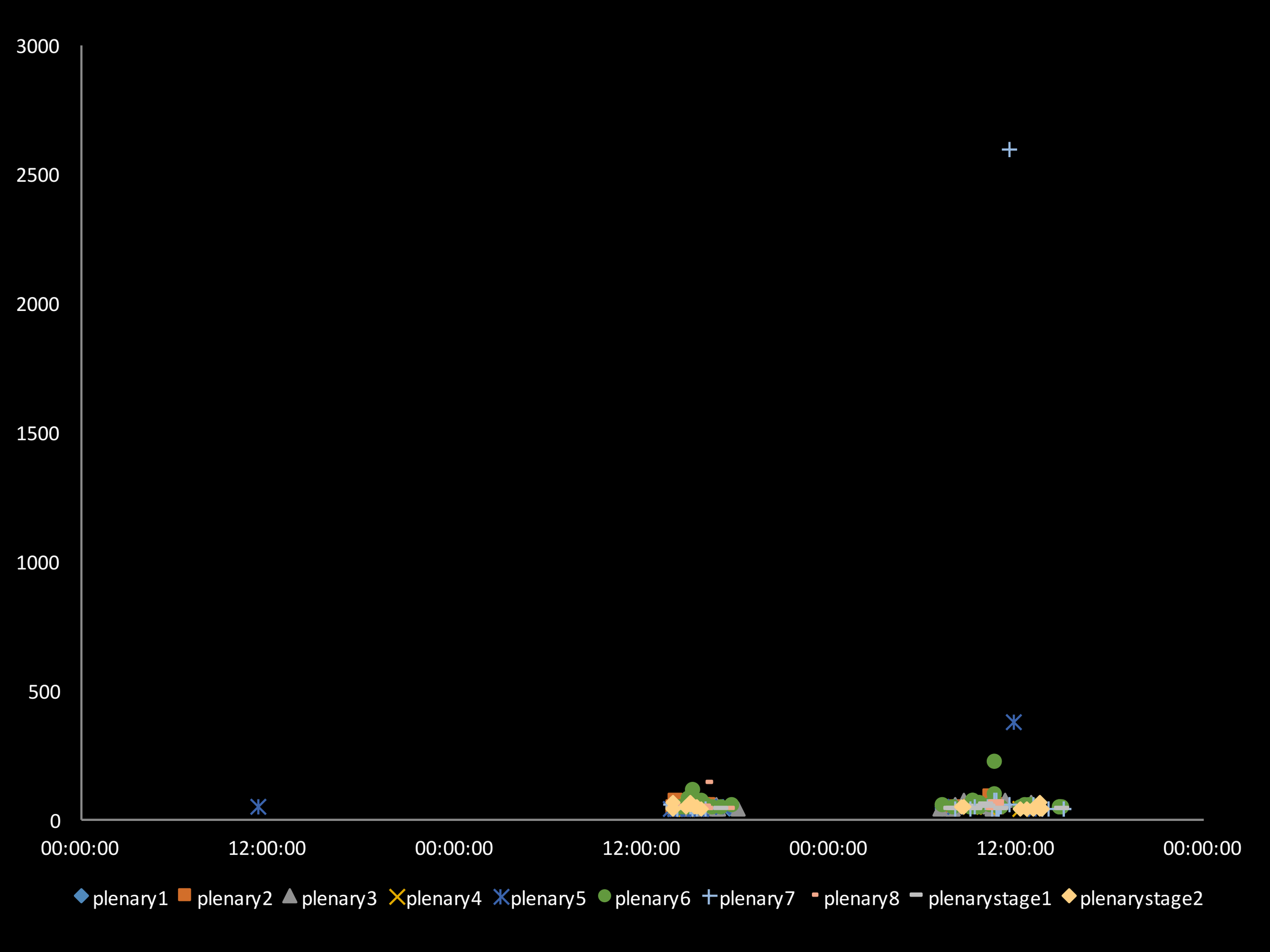
posters1 posters2 posters3 posters4 posters5 posters6 posters7 posters8

Latency in Room C (milliseconds)



Latency in Room C (milliseconds)

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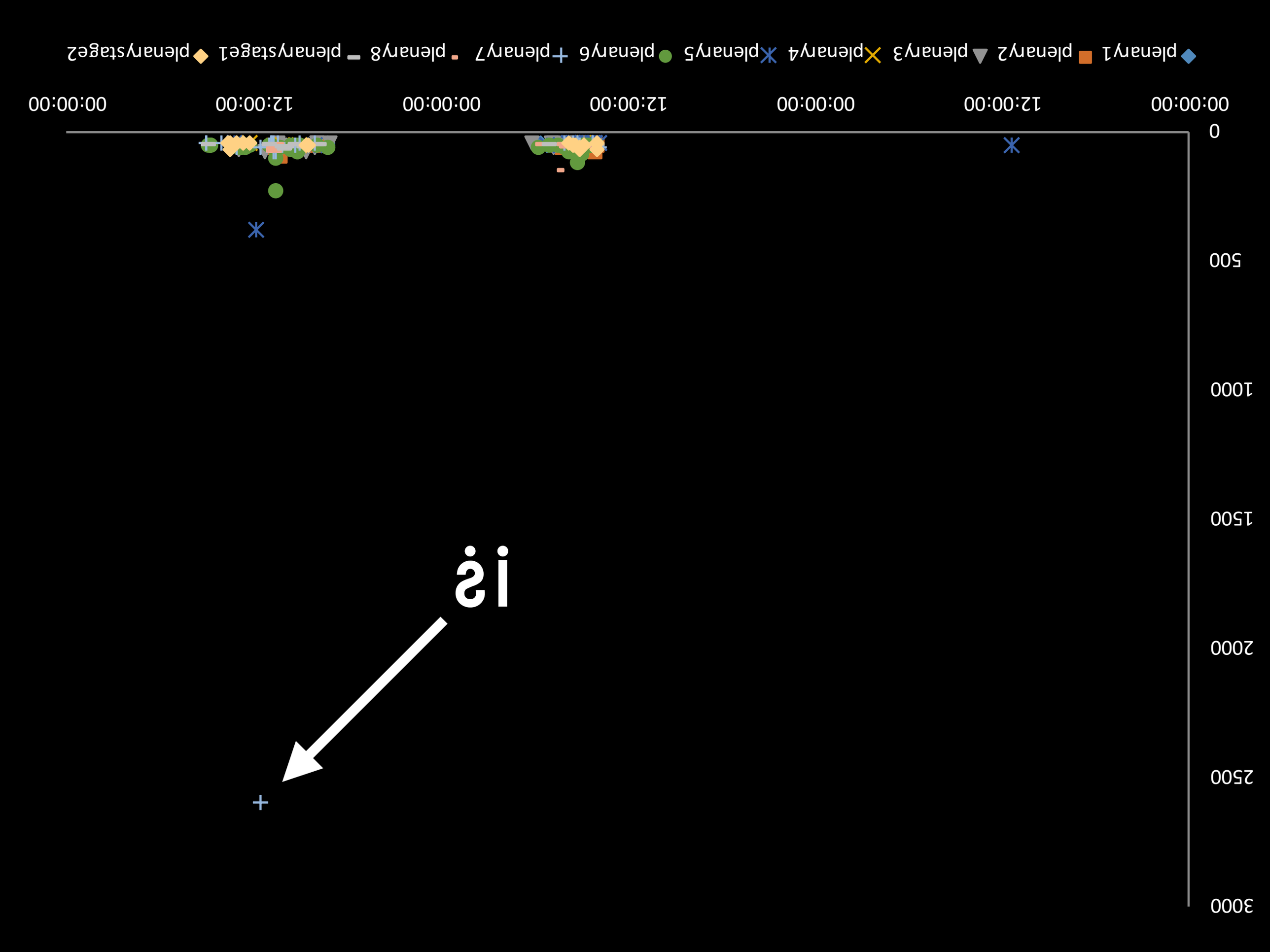
2500
2000
1500
1000
500
0
00:00:00
12:00:00
00:00:00
12:00:00
00:00:00
12:00:00
00:00:00
plenary1
plenary2
plenary3
plenary4
plenary5
plenary6
plenary7
plenary8
plenarystage1
plenarystage2


plenary1
plenary2
plenary3
plenary4
plenary5
plenary6
plenary7
plenary8
plenarystage1
plenarystage2
00:00:00
12:00:00
00:00:00
12:00:00
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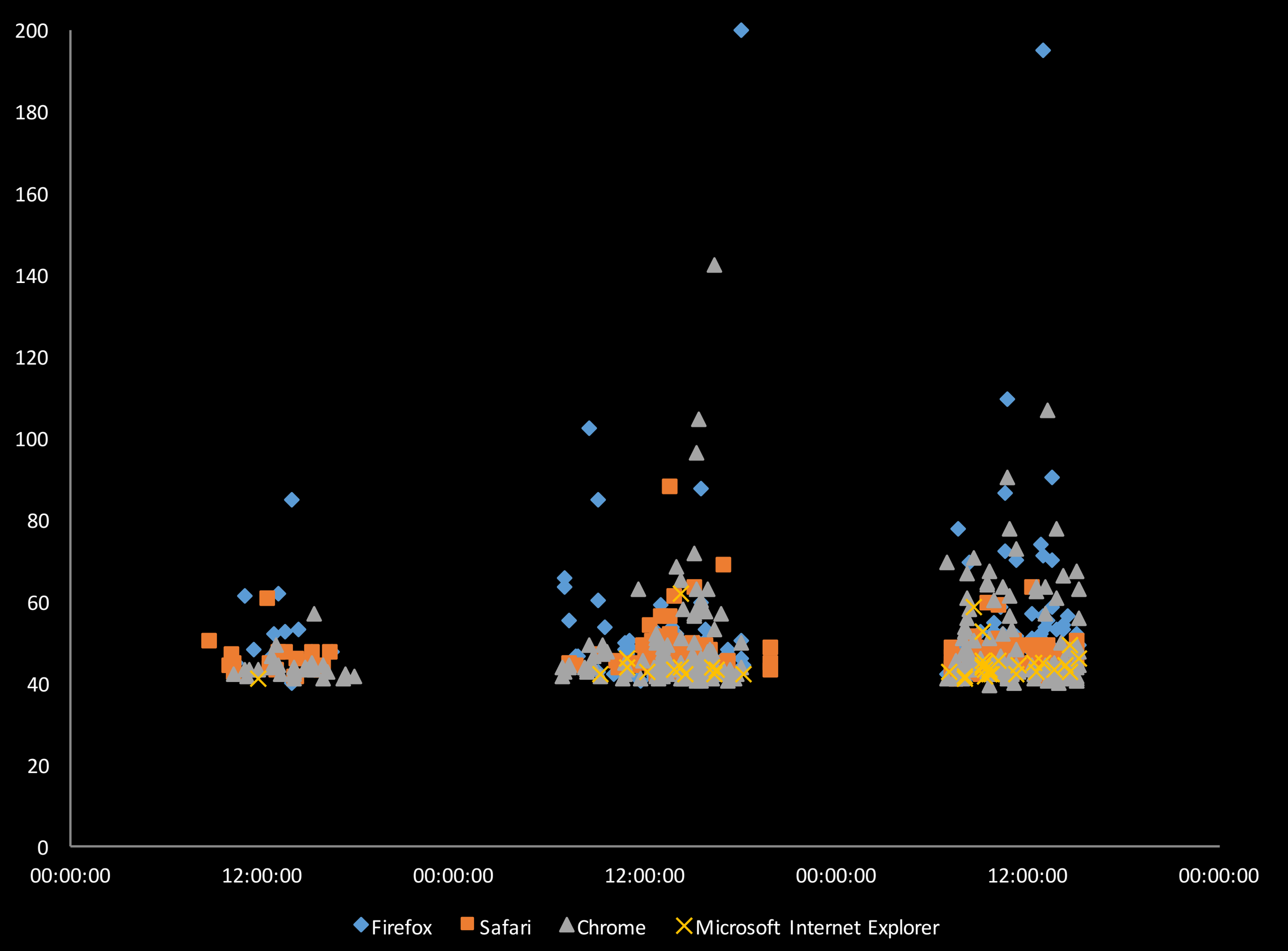
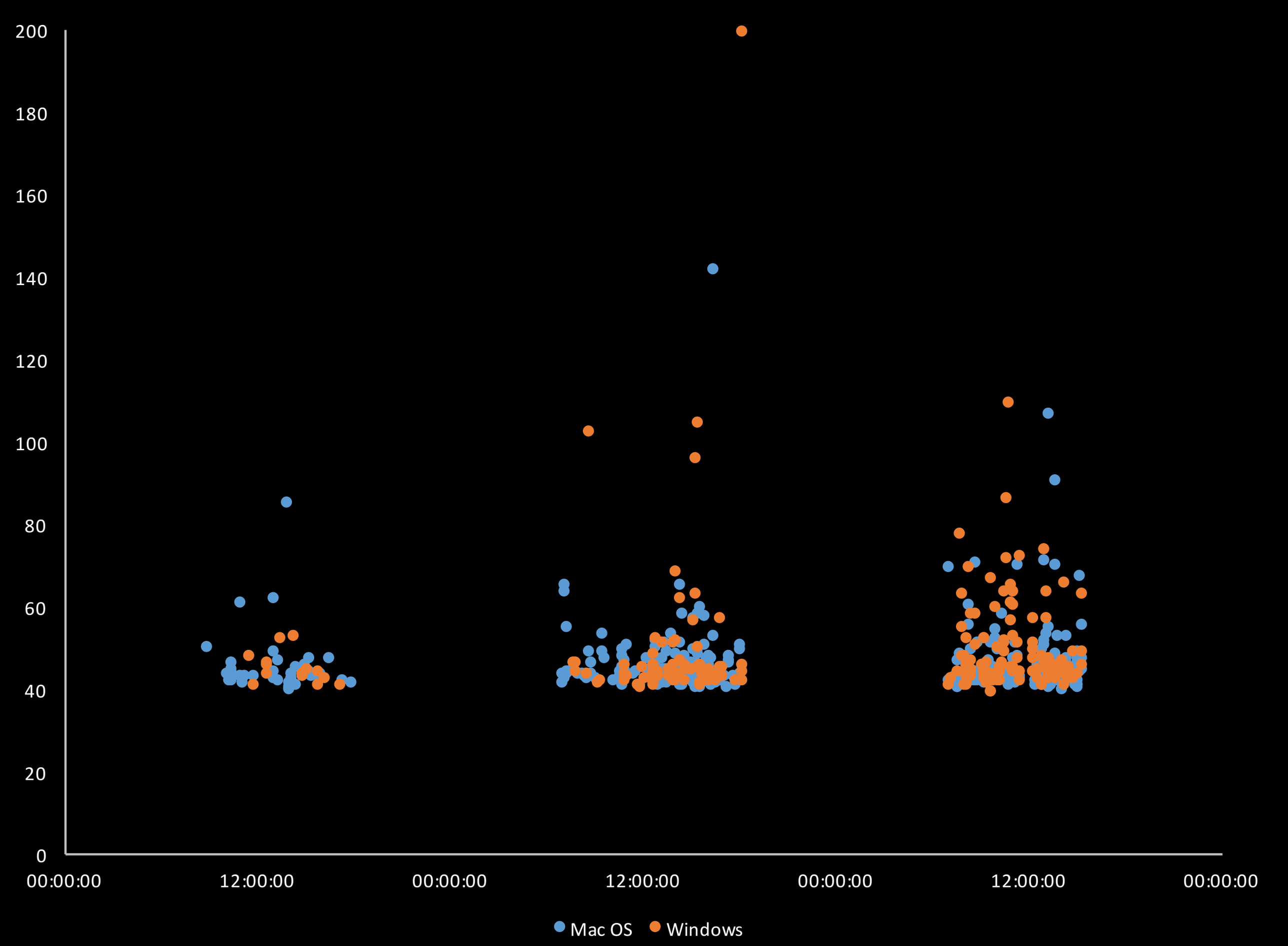
12:00:00
0
500
1000
1500
2000
2500
3000


200
180
160
140
120
100
80
60
40
20
0
00:00:00
12:00:00
00:00:00
12:00:00
00:00:00
12:00:00
00:00:00
Firefox
Safari
Chrome
Microsoft Internet Explorer


200
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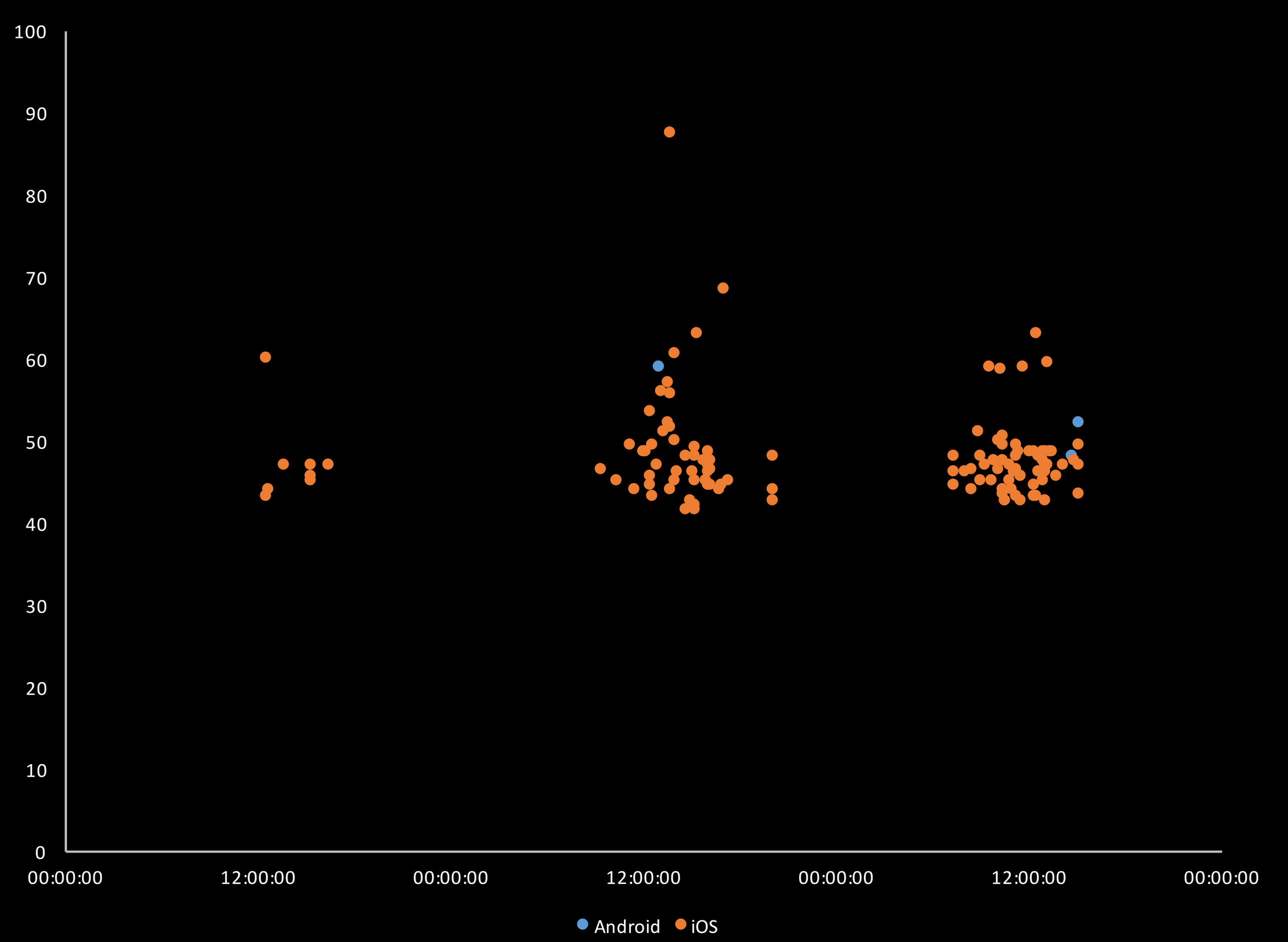
Mac OS
Windows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70
60
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40
30
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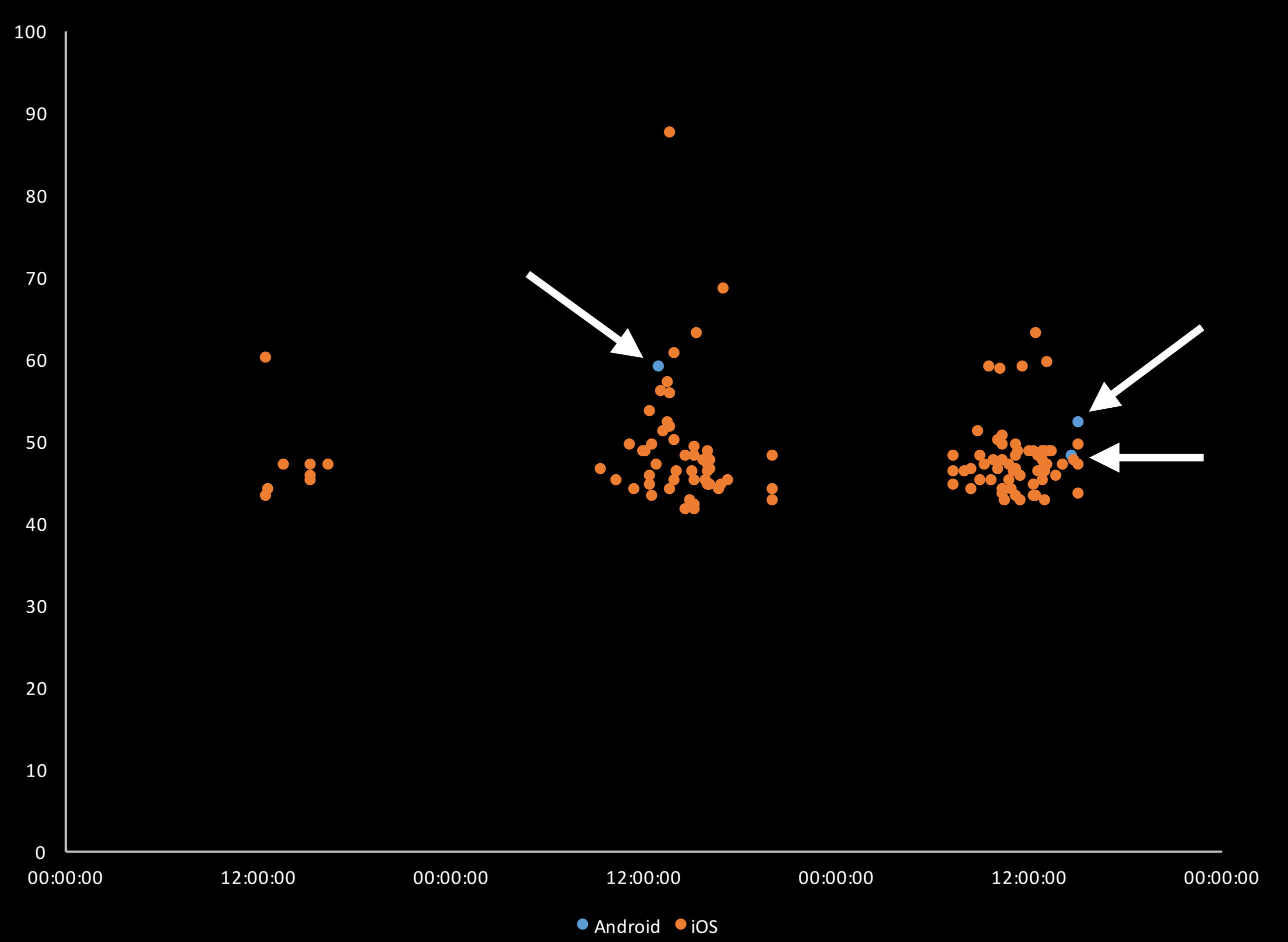
12:00:00
00:00:00
Android
iOS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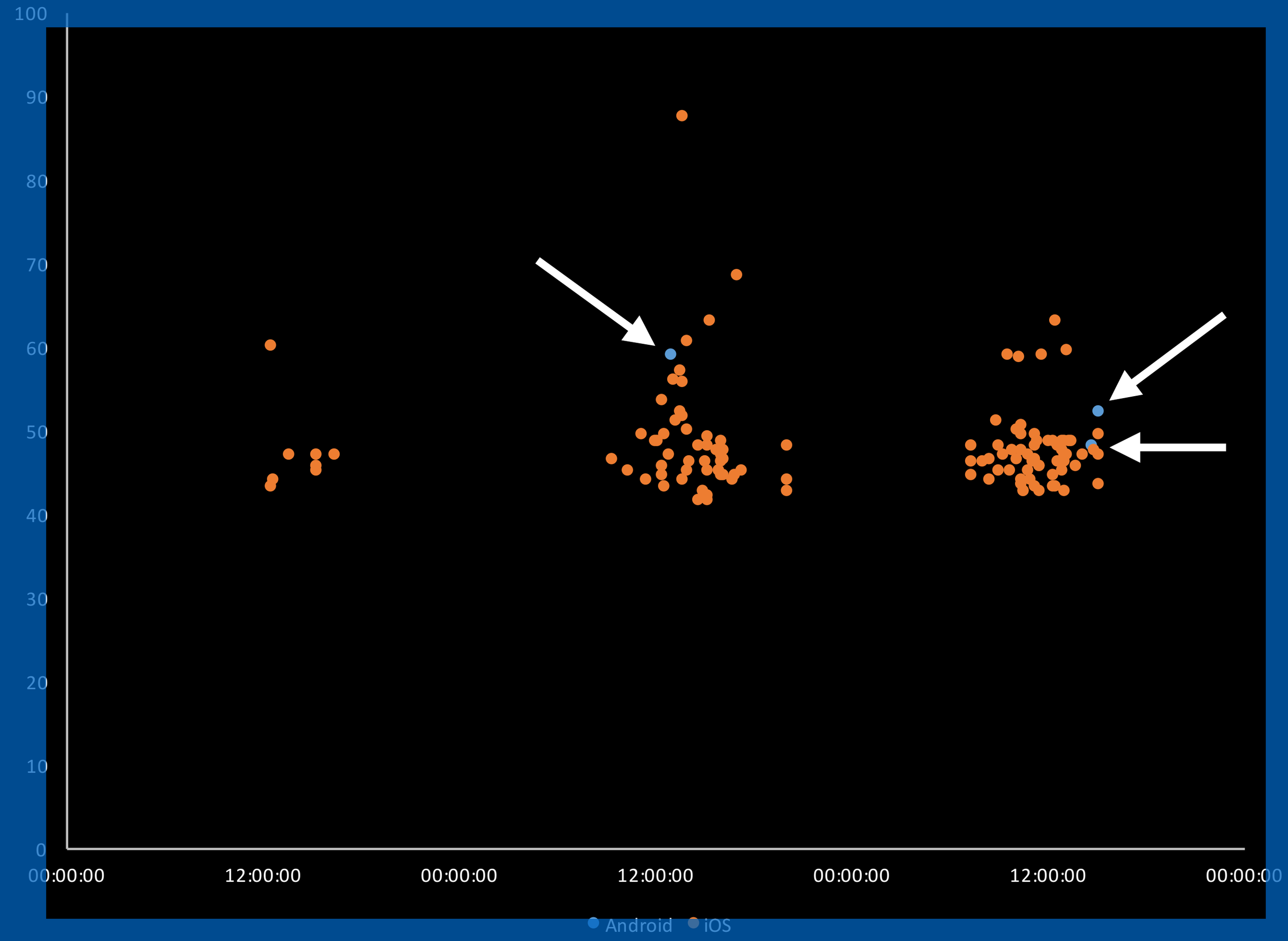
Android
iOS


100
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12:00:00
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Android
iOS

Don’t load two versions of jquery on the same site

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We can afford to be much more aggressive with testing

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Sometimes it’s quicker to try something and see

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Sometimes it’s quicker to try something and see

THANKS!

GN4	Kurt Baumann	Brian Bach Mortensen
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	Jørn de Jong	Arne Oslebo
	Nikos Kanakis	Victor Reijs
TNC	Dick Visser	Christian Gijtenbeek
	Pedro Simoes	George Almeida

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1: You only ever get to talk about one thing.

2: Tell a story.

3: Rehearse, rehearse, rehearse.

Why?

Your ideas are good.
Everyone else doesn’t know this yet.

The process of public speaking
is the process of understanding others.

Confessions of a Public Speaker
Scott Berkun

Presentation Zen
Garr Reynolds

Thank you