Off The Beaten Path

Observability Focus: From Service, To Customer



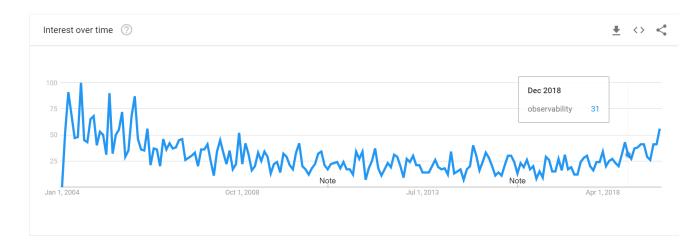
Mohit Suley (he/him)



You're Probably Not Alone

- Why call it monitoring? That's not sexy enough anymore.
- Observability, because rebranding Ops as DevOps wasn't bad enough, now they're devopsifying monitoring too
- Is that supposed to be like the second coming of DevOps? Or was it the Second Way? I can't remember. It all felt so cultish anyway.

https://medium.com/@copyconstruct/monitoring-and-observability-8417d1952e1c → Recommended Reading

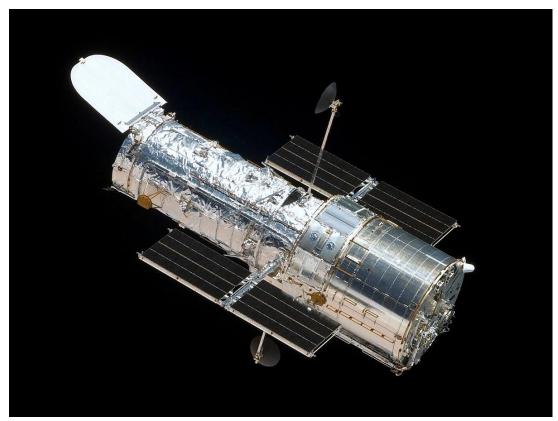






Observability, for the next 20-30 minutes

- Monitoring
 - Alerting
- Debugging
 - Distributed Tracing
 - Log Aggregation
- Testing
- Insights
- And more...



https://en.wikipedia.org/wiki/Hubble_Space_Telescope





Observability Focus



CC: http://www.themindfulword.org/wp-content/uploads/2015/03/PREFERENCES-learning-to-live-in-the-moment.jpg













Observability Focus – A Shift





OBSERVED









App Metrics

Our Comfort Zone

METRICS

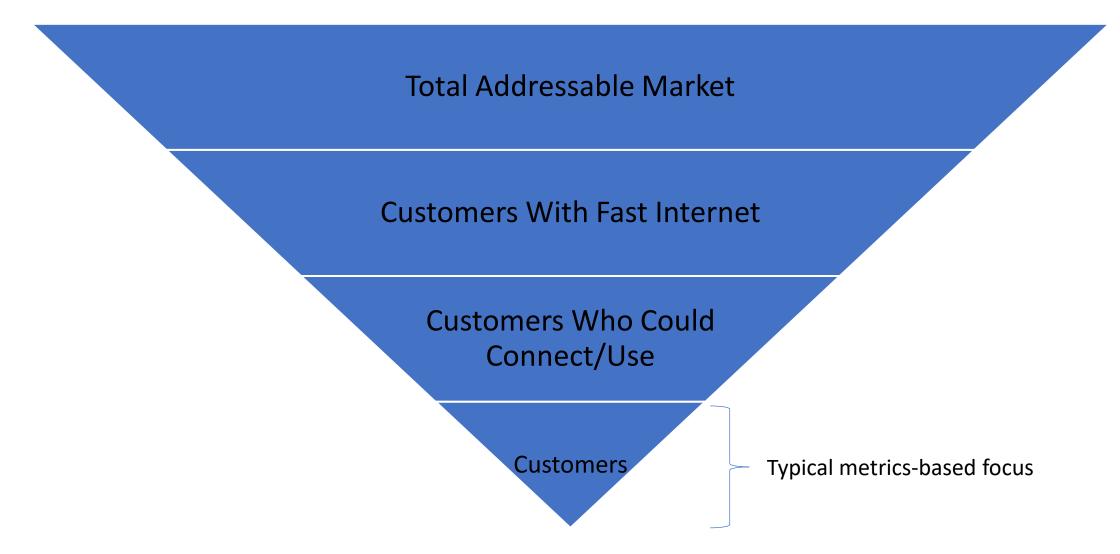








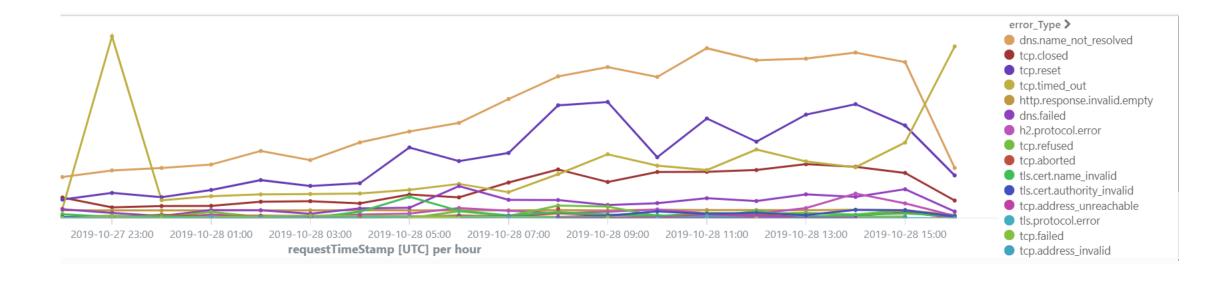
Availability: Less Than What You Think It Is







Network Error Logging

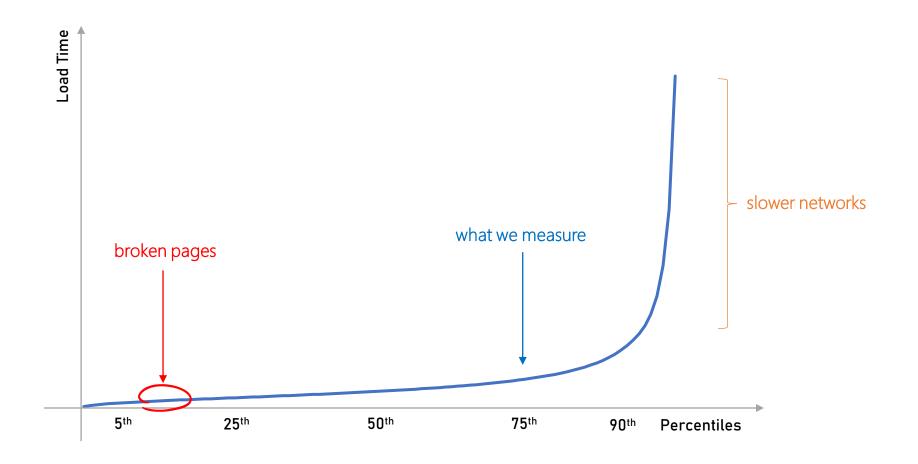


Today, application developers do not have real-time web application availability data from their end users. For example, if the user fails to load the page due to a network error, such as a failed DNS lookup, a connection timeout, a reset connection, or other reasons, the site developer is unable to detect and address this issue. Note that these kinds of network errors cannot be detected purely server-side, since by definition the client might not have been able to successfully establish a connection with the server.





Performance: More Than A Numbers Game







Usability

Is There A Way To Measure Behavior & Be Inclusive?

USABILITY

METRICS







How do you debug usability issues?



Seeing weird purple ads with Bing? (self,bing)

submitted 2 months ago by

Hi when I am searching using Bing, I receive really distracting, bold bright purple ads (like a purple rectangular background), yet on google I don't see any ads which is strange. I'm using Microsoft Edge. It only happens on one of my systems. Thanks.

Bing results: https://gyzzo.com/2f6789b6a71cbfbf0cf00372cb45c36c Google results:

https://gyazo.com/f288129e6feeb7b6b6f1f3bc059667d8

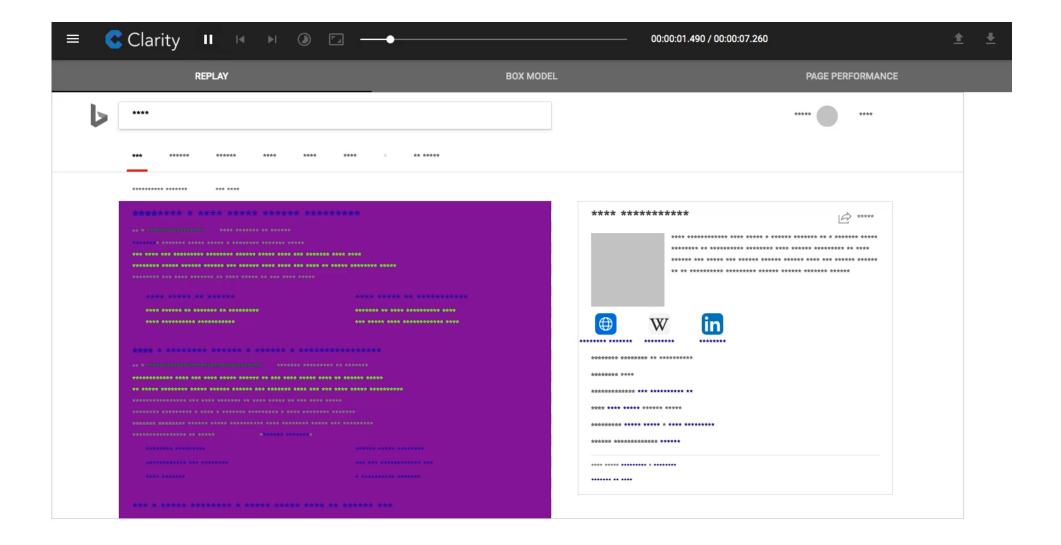
comment share size hide report

using Bing, I receive really distracting, bold bright purple ads





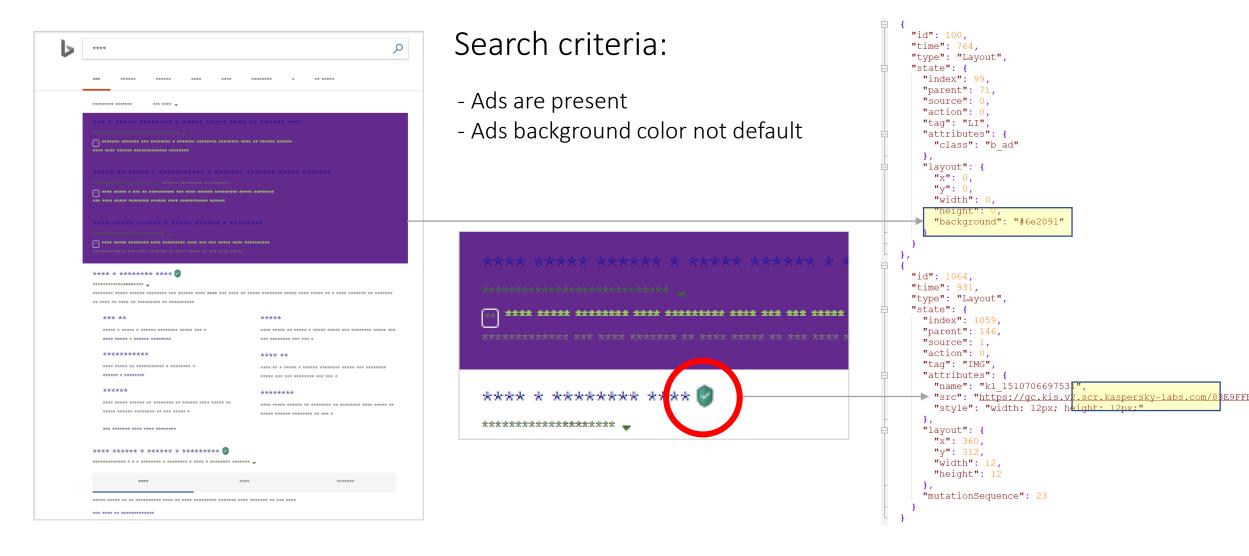
What if you could see what your user saw?







And, had the data to solve the usability issue







Clarity-JS: Measure Usability @ Scale



"tag": "DIV",

"attributes": {

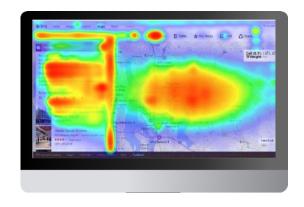
 "class": "fb_fltscol1"

},

"layout": {

 "x": 133,

 "y": 1489,



Structured Data

Behavioral Analytics





From Usability to Accessibility

Disability ≠ Personal health condition

Disability
=
Mismatched
human
interactions

Workers With Disabilities Disproportionately Impacted By Covid-19 Pandemic According to the US Labor Bureau of Statistics, in 2019, the unemployment rate for people with disabilities was at 80%. People with disabilities represented only 20% of the labor market. Since the pandemic began in March, 1 in 5 workers with disabilities lost their employment, compared with 1 in 7 for their able-bodied peers. In all, nearly one million jobs have been lost in the disabled community.

https://www.forbes.com/sites/allisonnorlian/2020/06/22/workers-with-disabilities-disproportionately-impacted-by-covid-19-pandemic/





A11y Standards









As Developers/SREs, ask:

- Do you keep accessibility in mind while writing the spec?
- Does your build workflow have A11y Compliance and Testing?
- Do accessibility bugs see light of day, ever?
- Are there forums available where you can discuss these topics?





Customer Feedback

Read 'The Feels'

FEEDBACK

USABILITY







The Ugly

If you were satisfied with your experience I would appreciate if you could complete feedback.

If you could give **ME** a **10** it would really help me out. This is my scorecard and determines how I get paid.





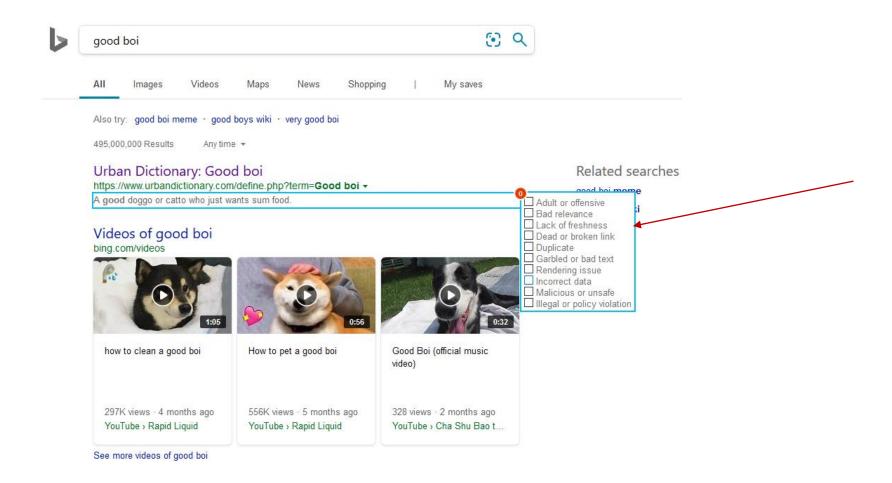
The Bad







The Better







The Best

"Email address appears to be incorrect. Looks like the name of the business has changed as well. You might want to change this." "sentimentDetection": {
 "label": "Negative",
 "score": 0.3231718112516975,
 "api": "BingSentimentDetection"

"I didn't expect you could get scores this fast!"

```
"sentimentDetection": {
    "label": "Positive",
    "score": 0.6272385030775985,
    "api": "BingSentimentDetection"
}
```





A Good Feedback System Is ...

- Context-Aware
- Accessible
- Proactive
- Capable of Sentiment Extraction
- Actionable



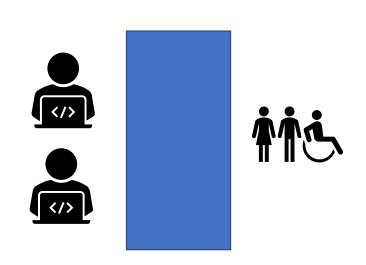


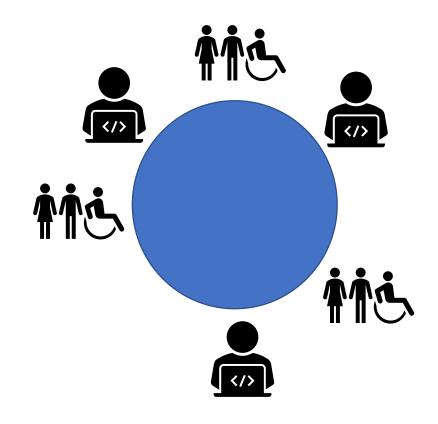
Insider Programs

Extend, Embrace ... Engage



People Want To Be Cool Too

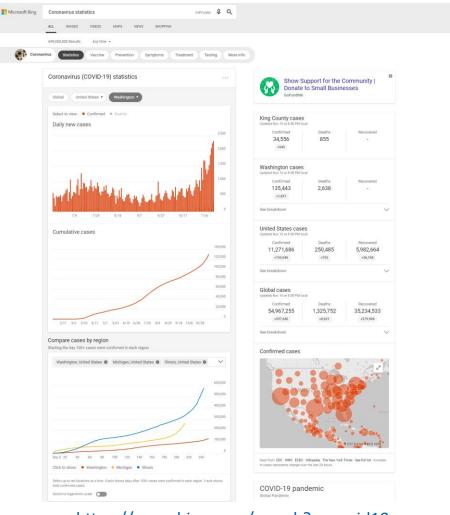








Going Beyond Experimentation



https://www.bing.com/search?q=covid19





Isn't That Dogfood?

- Dogfooding doesn't mean you're an Insider
- You might use your own product, but you're not a customer





Listening Tours

6 feet

Zero Distance To Customers

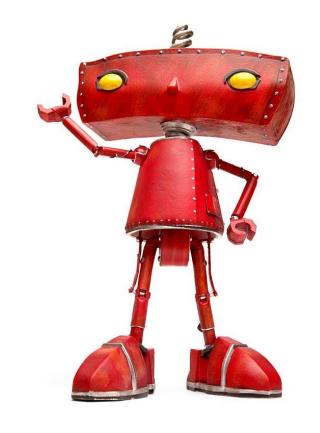






Customer, Meet Engineer





CC: http://gadgetsin.com/uploads/2011/03/limited_edition_bad_robot_collectible_figure_1.jpg

CC: https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/CashRegister.svg/670px-CashRegister.svg.png





How Does It Help Engineering?

- You realize its not all 'bots'.
- Talk To Product Fans
- Understand Diversity of Location/People





Finishing Notes

Why This Audience?







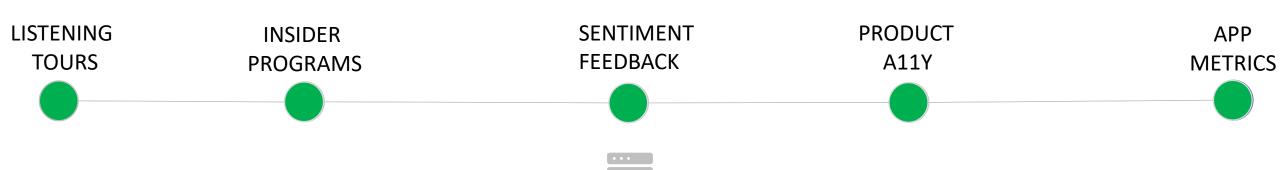
The Feature You Work On Is 'The Site'

- You Run Telemetry Platforms
- You Are The First Line of 'Help!'
- You Know Ground Reality of Systems *and* the 30K feet view





Observability: The Collective Path















Thank You!