

LibStats: There and Back Again

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Lisa Hamlett, Applications Analyst II



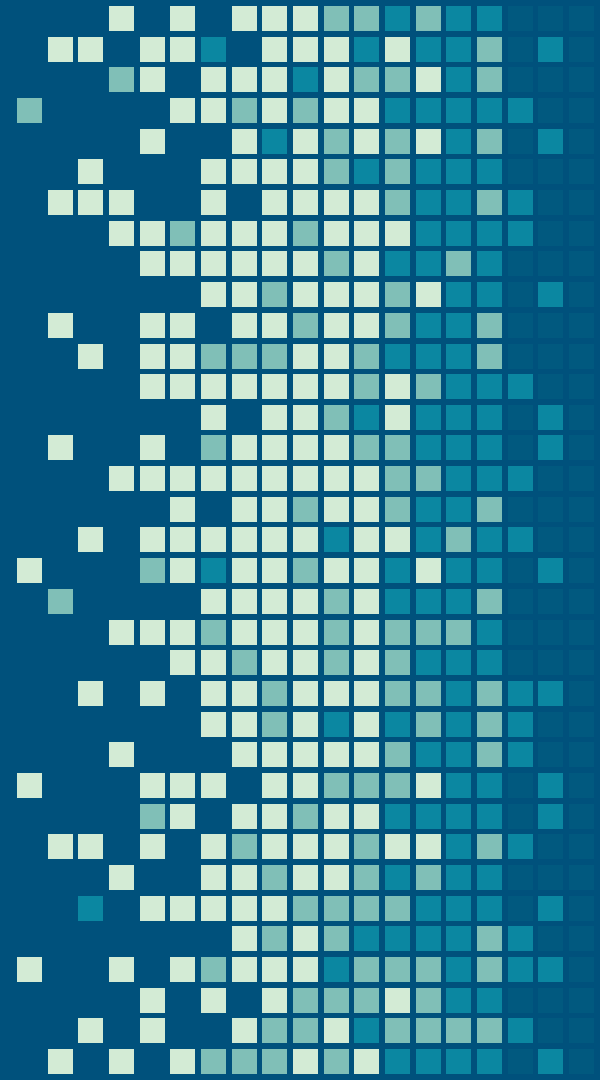
EMORY
LIBRARIES &
INFORMATION
TECHNOLOGY

Road Map

- **Introduction**
- **Part I:**
 - **Why this project?**
 - **How did we start it?**
- **Part II:**
 - **Engaging With the ezPaarse Open Source Community**
 - **Making ezPaarse Your Own**
- **Part III:**
 - **Using Tableau to compile and present your unique data**
 - **Some examples of our data**

Part 1. Beginning the journey

Origin, project management, and architecture



The Origins of LibStats

Have

- COUNTER
- Unparsed proxied logs
- Proxy both on & off campus

Need

- Data from resources without COUNTER
- Easier way to visualize stats
- Way to match access with demographic data for a more well-rounded view

ezPAARSE

Project Management

- Multiple moving components
 - Setting up ezPaarse
 - Architecting data loads
 - Designing & Implementing database
 - Setting up Tableau
 - Ensuring communication with stakeholders
 - Prioritization
 - etc
- Use GitHub to track everything
 - Private repo for initial setup and changes/tweaks to architecture
 - Public repo forked from ezpaarse-platforms

Navigation: <> Code | 1 Issues 5 | Pull requests 0 | **Projects 2** | Wiki | Insights | Settings

Ezstats initial setup
Updated on Feb 13

Filter cards

+ Add cards | Fullscreen | Menu

0 To Do

-

2 In Progress

- Become familiar with Tableau / training** #19 opened by eipeele
configuration in progress installation
- Meet with stakeholders to determine tableau setup** #21 opened by eipeele
backlog database setup

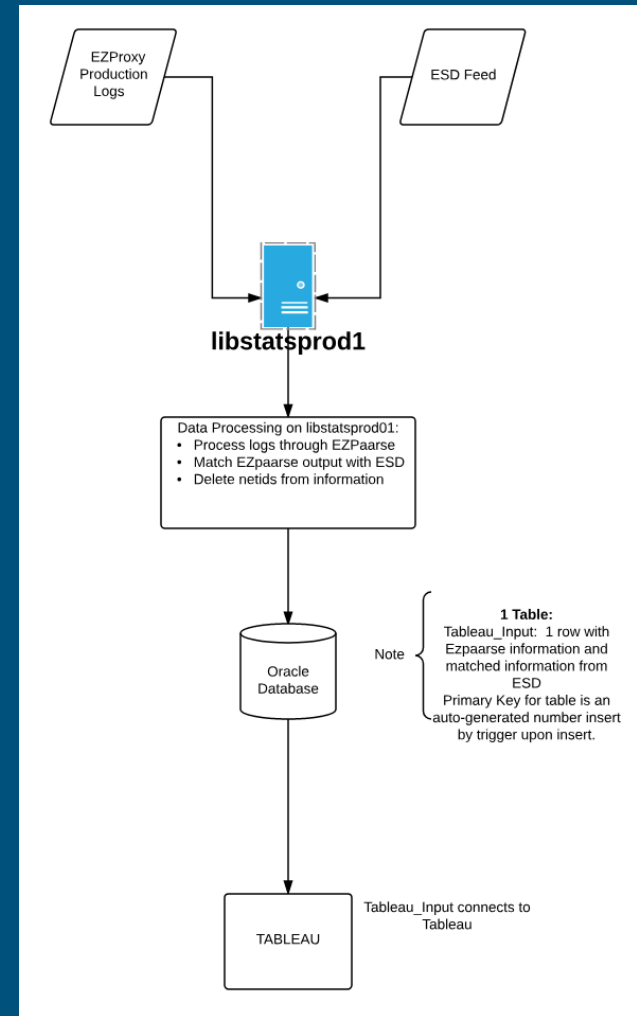
22 Done

- Contribute new domains to eZPAARSE** #25 opened by AGCooper
- Complete initial run through** #22 opened by eipeele
configuration database setup installation
- Configure how walk-in station will be included.** #24 opened by eipeele
configuration
- retrieved and anonymized ezproxy logs** #23 opened by bernardo-gomez
- configure ezpaarse to work without web portal** #6 opened by eipeele
configuration
- added code to anonymize health_id** #16 opened by bernardo-gomez
Changes approved
- Configure connection between libstatsprod server and the Oracle databases** #7 opened by eipeele
database setup integration
- Purchase Tableau license** #18 opened by eipeele
installation

Private Repo

Architecture

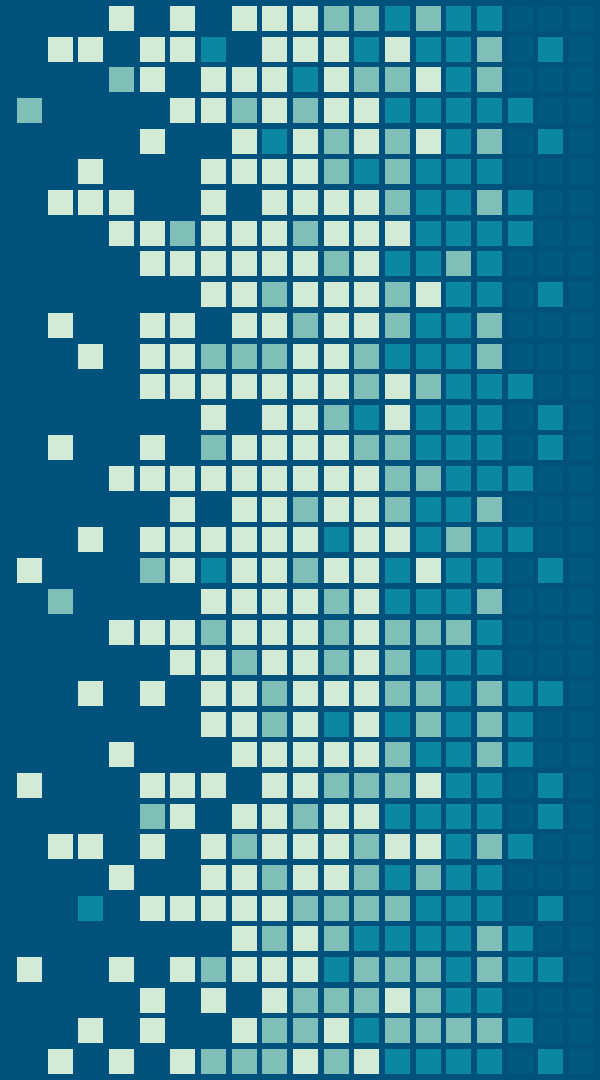
- Extract:
 - Different data sources
- Transform:
 - Filter
 - Match
 - Anonymization
 - Date transformation
- Load:
 - Oracle Database



Part 2.

On the Road

Engaging with the ezPaarse community and
making ezPaarse your own



Tracking the State of ezPaarse

- Couperin and the project members
- Trello: ezPaarse / AnalogIST
 - <https://trello.com/b/wEaLnz8d/ezpaarse-analogist-suivi-des-plateformes>
- The Couperin project AnalogIST webpage
 - <http://ang.couperin.org/>

Contributing to ezPaarse Part 1

- Analyze your EZProxy logs
- Create a Trello card for the platform
- Add links from the EZProxy logs to AnalogIST

Contributing to ezPaarse Part 2

- Creating your own parsers
- Use platform-init to create your platform's parser
- Modify the parser.js template to suit your needs
- Build out your test.csv
- Commit your code to ezPaarse on GitHub
 - <https://github.com/ezpaarse-project/ezpaarse-platforms>
- Since 01/2018 we have added 53 parsers locally and 35 globally
 - NOTE: We do not reparse old logs when we add a new parser

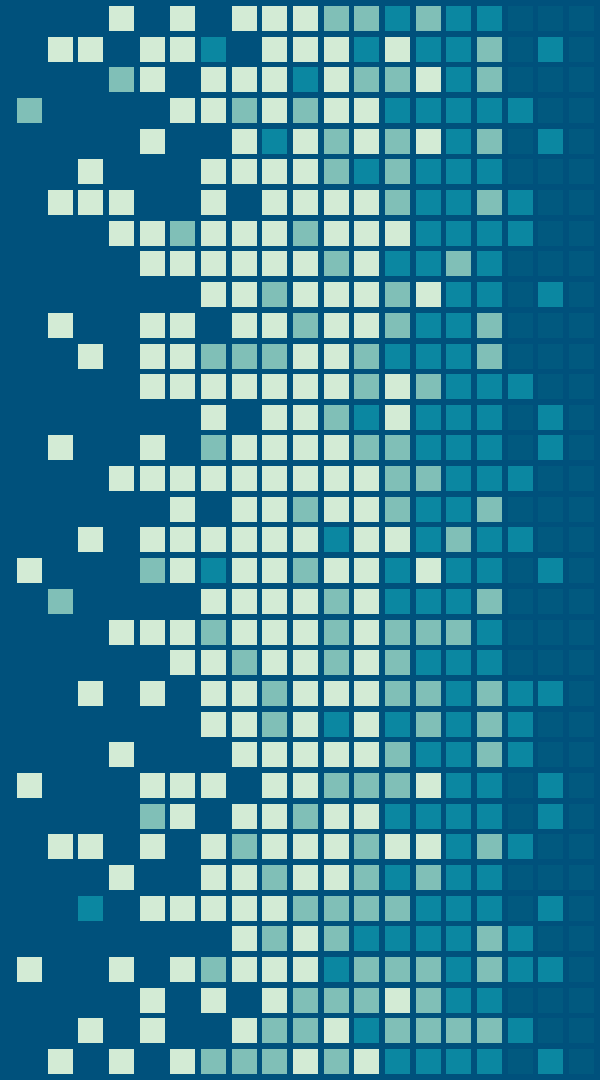
Tools

- regex
 - Tooltip: <https://regex101.com/>
- JavaScript
- ezPaarse community

Part 3.

Telling Your Story

Using Tableau to compile and present your
unique data



Preparing the Data Connection

- Tableau Public vs. Tableau Desktop
 - Same functionality, but access to data in Tableau Public cannot be restricted and Tableau owns the data
- Connect Tableau Desktop to Tableau Server
- Connect Tableau Desktop to Database with Tableau Connector
- Publish data source to Tableau Server
- Schedule a regular extract (not a live connection) of the data source
- Create a workbook connected to data source
 - Pro tip: You can connect multiple workbooks to a single data source from the server
- Publish workbook to Tableau Server


LibStats vs. COUNTER

- LibStats is *not* a replacement for COUNTER reports
 - COUNTER data describe *what* resources are being accessed
 - LibStats data describe *who* is accessing the resources
- LibStats data for resources is inconsistent
 - Every website handles links and resources uniquely
 - Parser writers have different ideas of what constitutes a certain type of resource
- Both LibStats and COUNTER reports are needed to get a full picture of collection usage

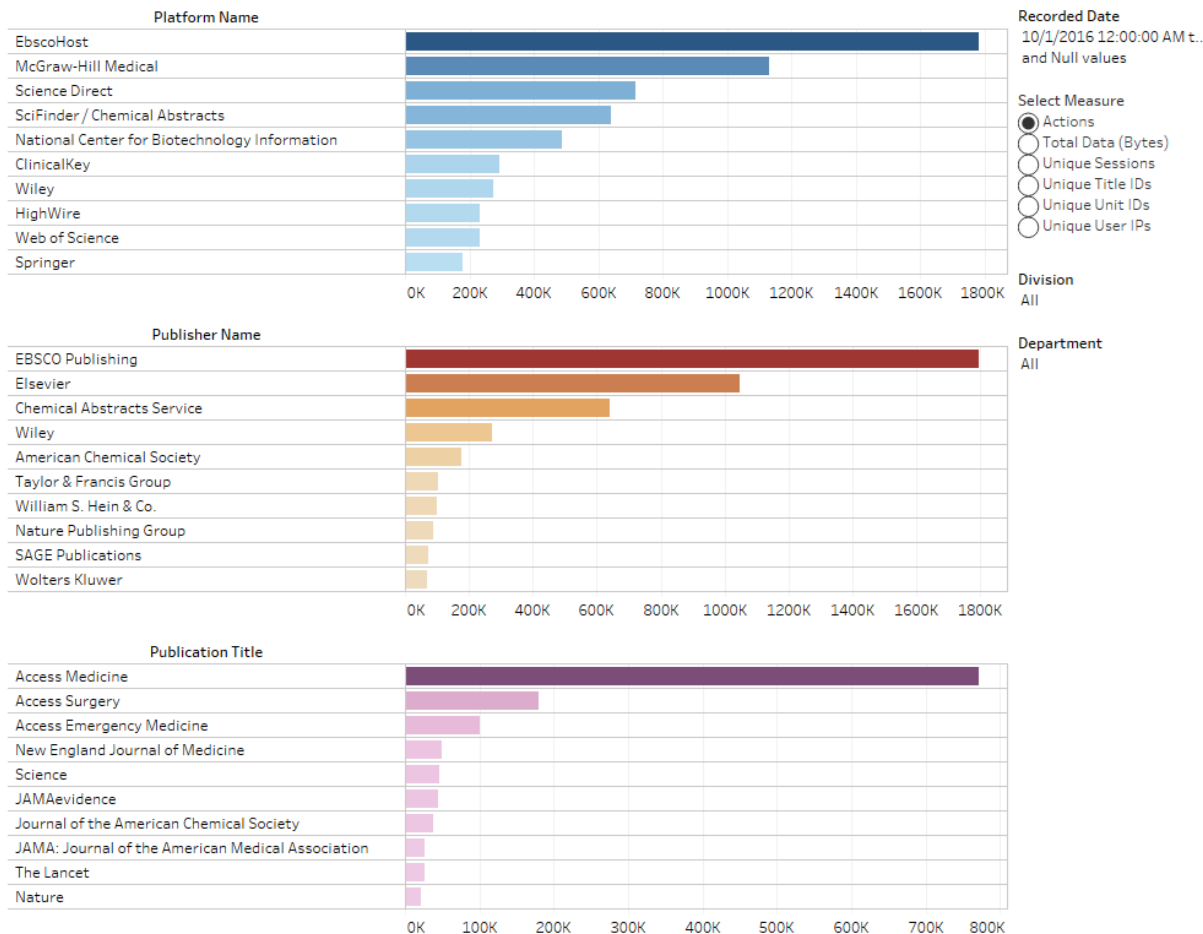
LibStats Data

- LibStats looks at these specific data:
 - Actions, Data (Bytes), Unique Sessions, Unique Title IDs, Unique Unit IDs, & Unique User IPs
- Some data is incomplete because many parsers only show initial access
- The most useful data defined
 - Actions: Anything a user does (click, open a file, view a TOC, etc.)
 - Unique Sessions: Number of unique logins into ezProxy
 - Unique User IPs: Number of unique IP addresses that have been logged into ezProxy

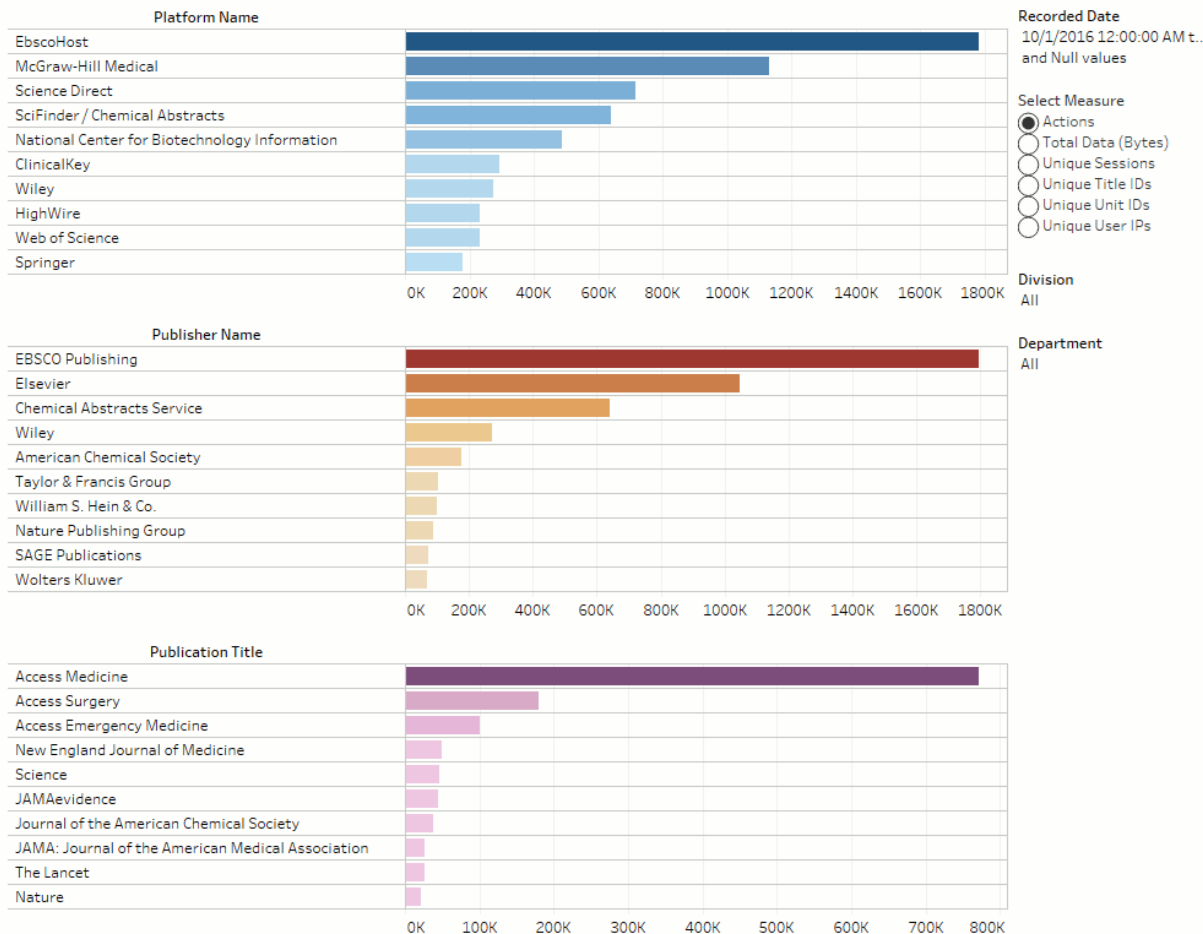
That's nice and all...
But let's see the data!



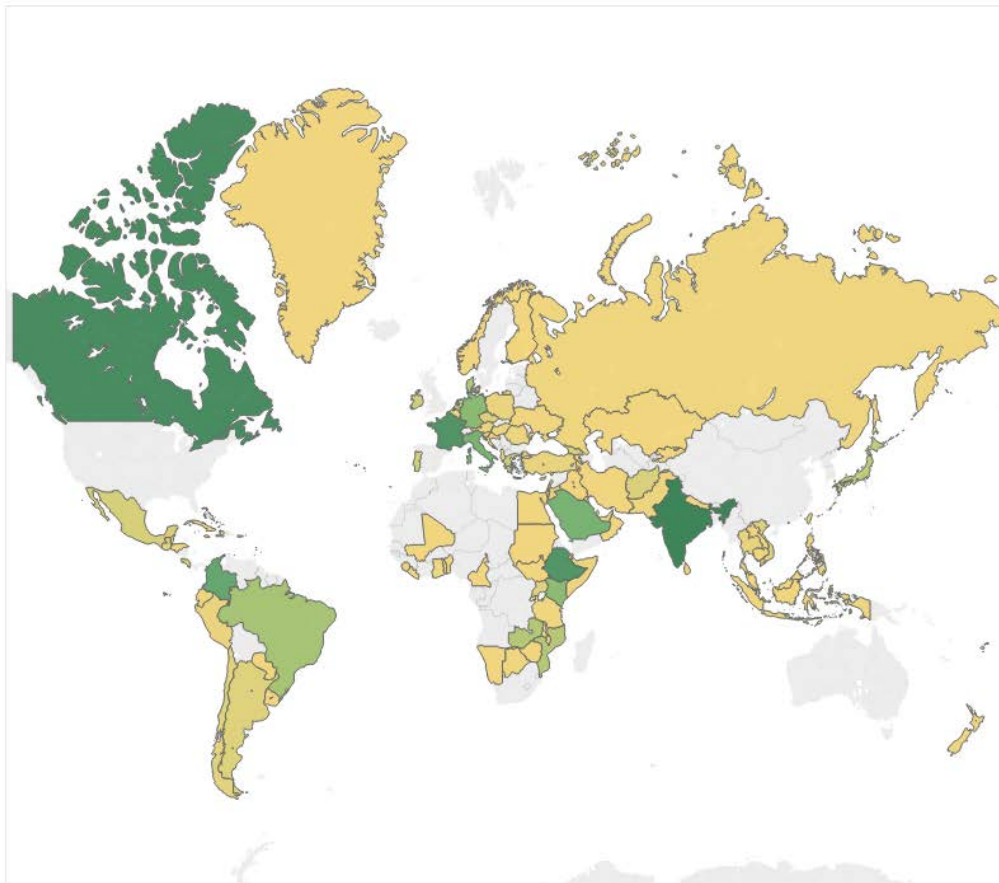
Top 10 Platforms, Publishers, and Publication Titles by Actions



Top 10 Platforms, Publishers, and Publication Titles by Actions



Click on a country either on the map or in the list to filter by that country. Click again to remove the filter.



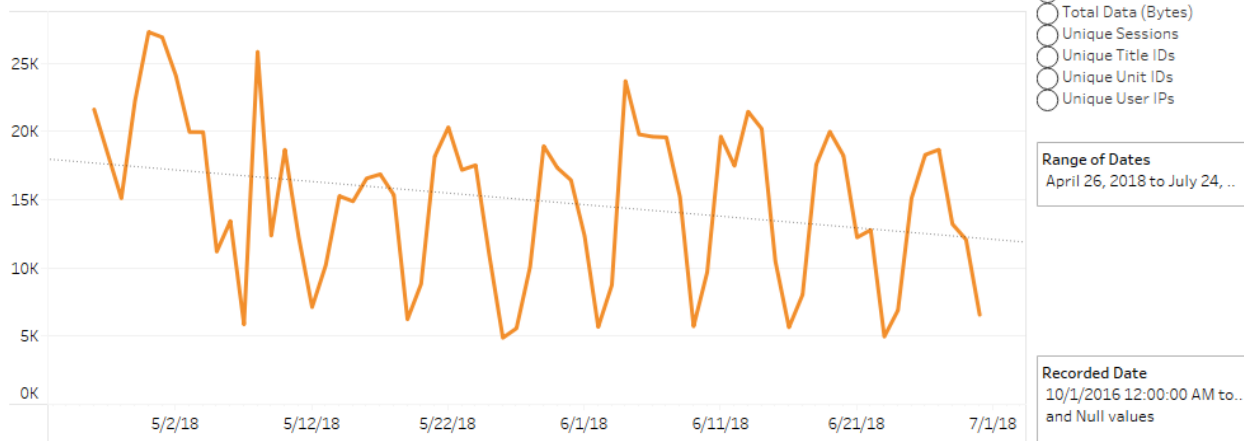
Select Measure
Actions

Country
Outside US

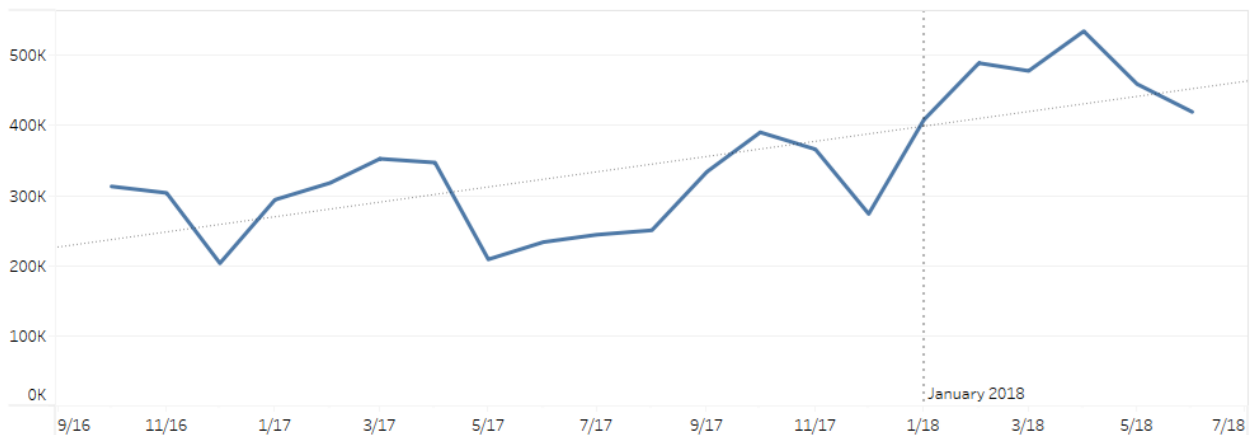
Recorded Date
10/1/2016 12:00:00 AM to 6/30/2018 12:00:00 AM
and Null values

AE	349
AF	1,019
AL	21
AM	19
AR	816
AT	422
AW	2
BB	36
BE	210
BJ	50
BQ	6
BR	3,159
BS	100
BW	72
BZ	51
CA	9,461
CL	653
CM	67
CO	6,656
CR	907
CU	21
CY	4
CZ	898
DE	4,426
DJ	4
DK	2,439
EC	150
EG	72
ET	8,547
FI	21
FJ	14
FR	8,626
GD	1
GE	992
GH	117
GL	31
GR	1,627
GT	604

Actions by Day

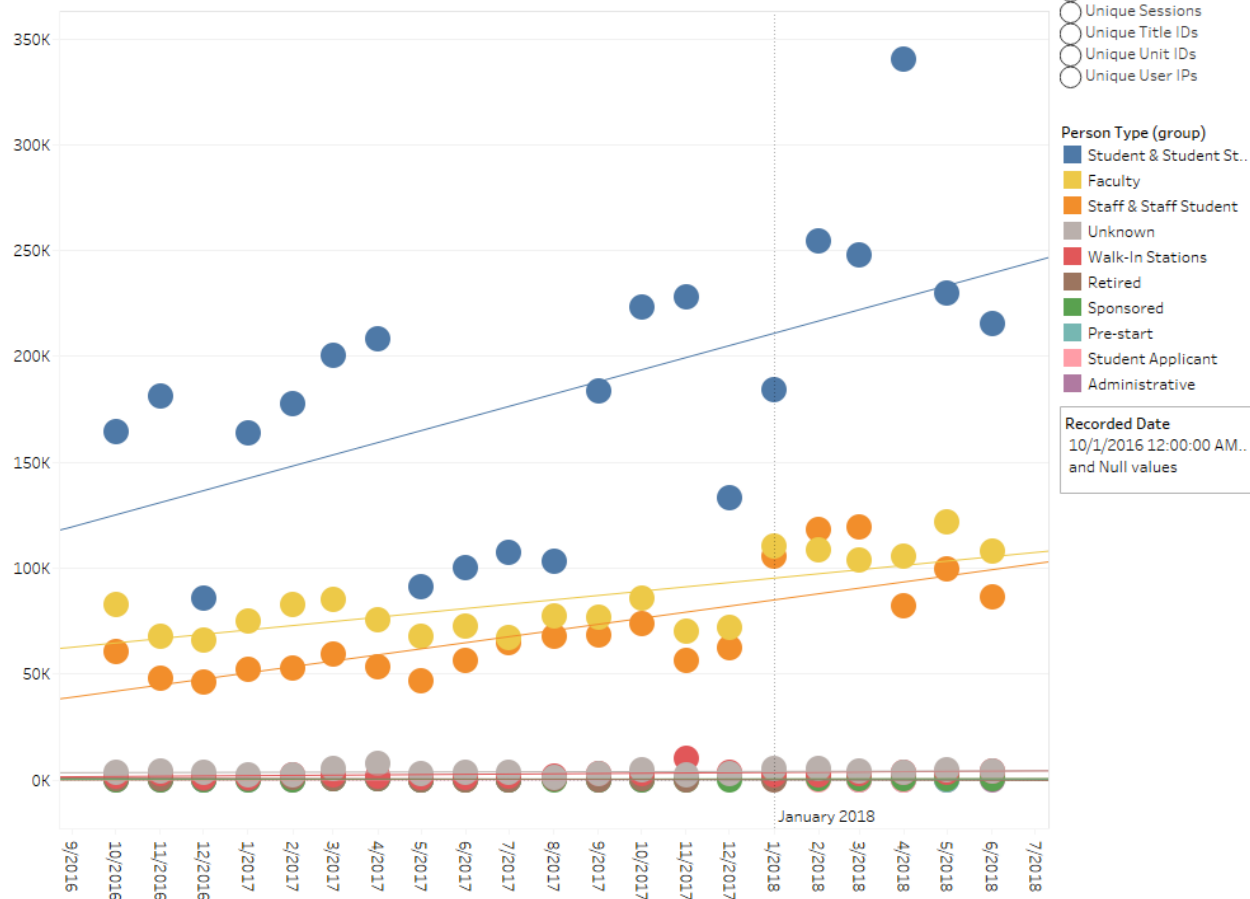


Actions by Month



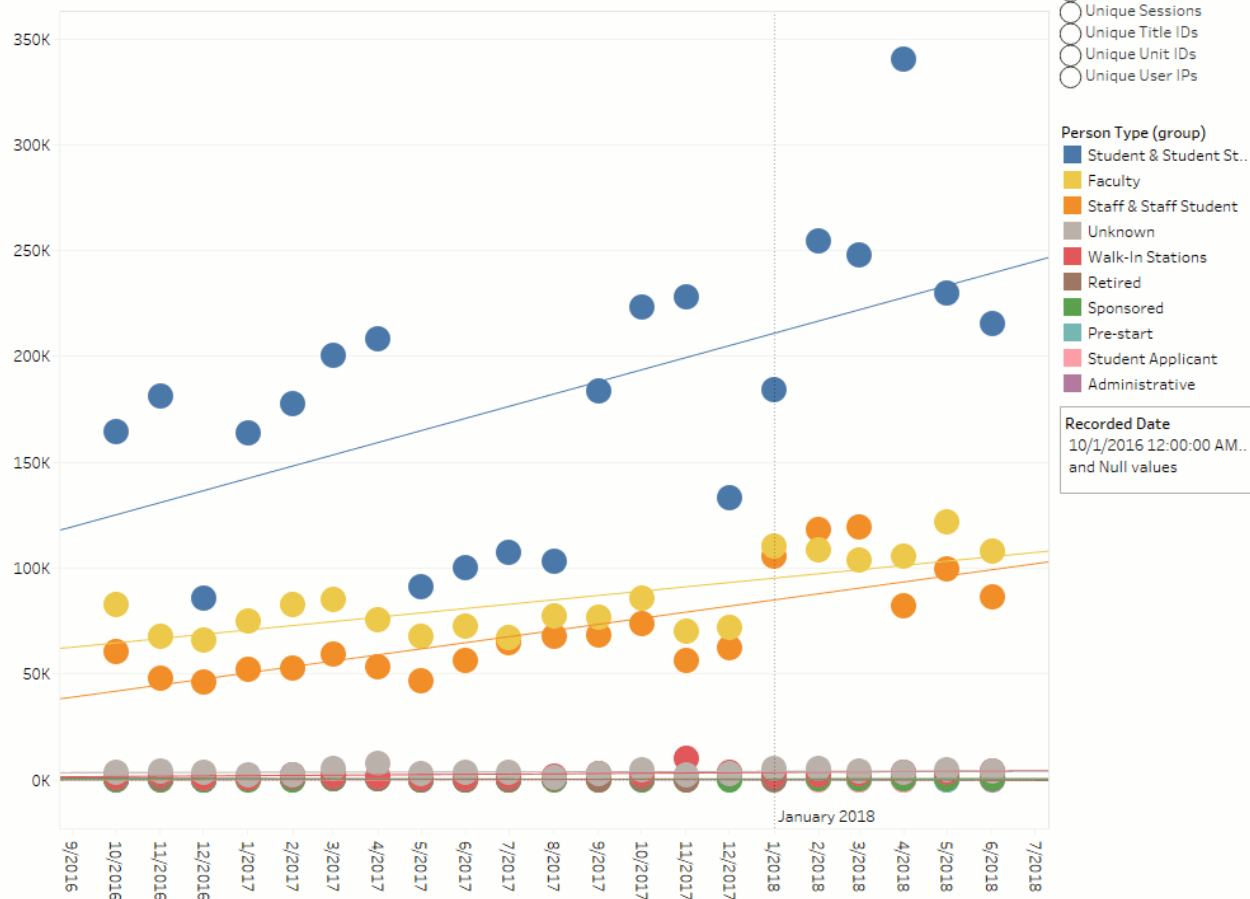
Actions by Month by Person Type

Click a person type in the legend to highlight that type only.



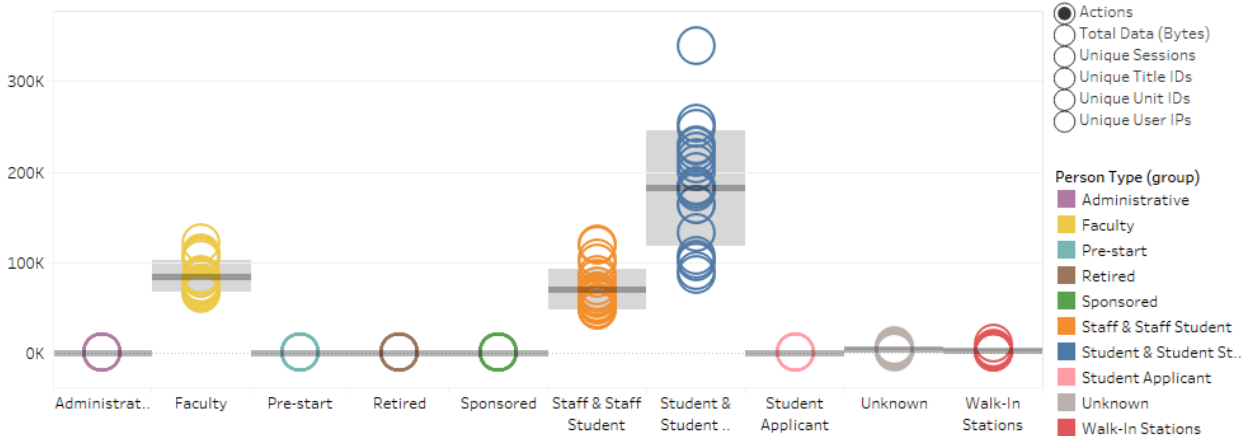
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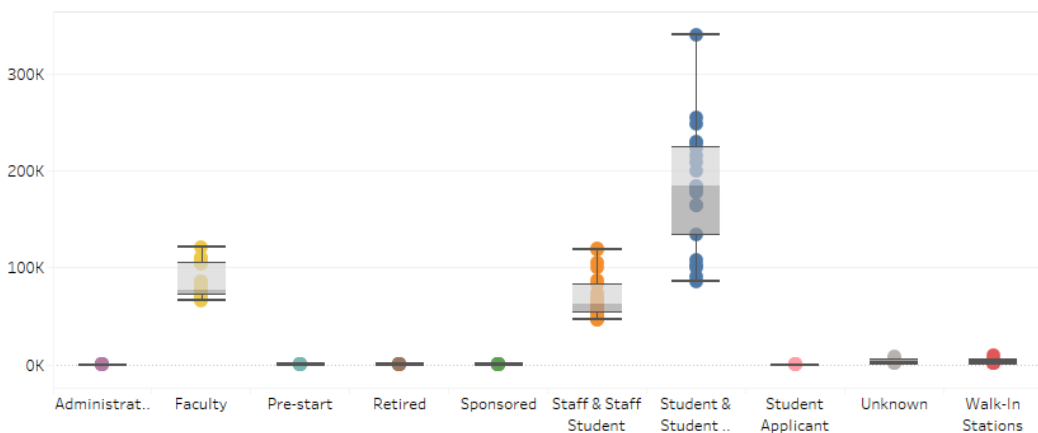


Actions by Person Type

Solid lines are averages and grey bands are standard deviation away from average

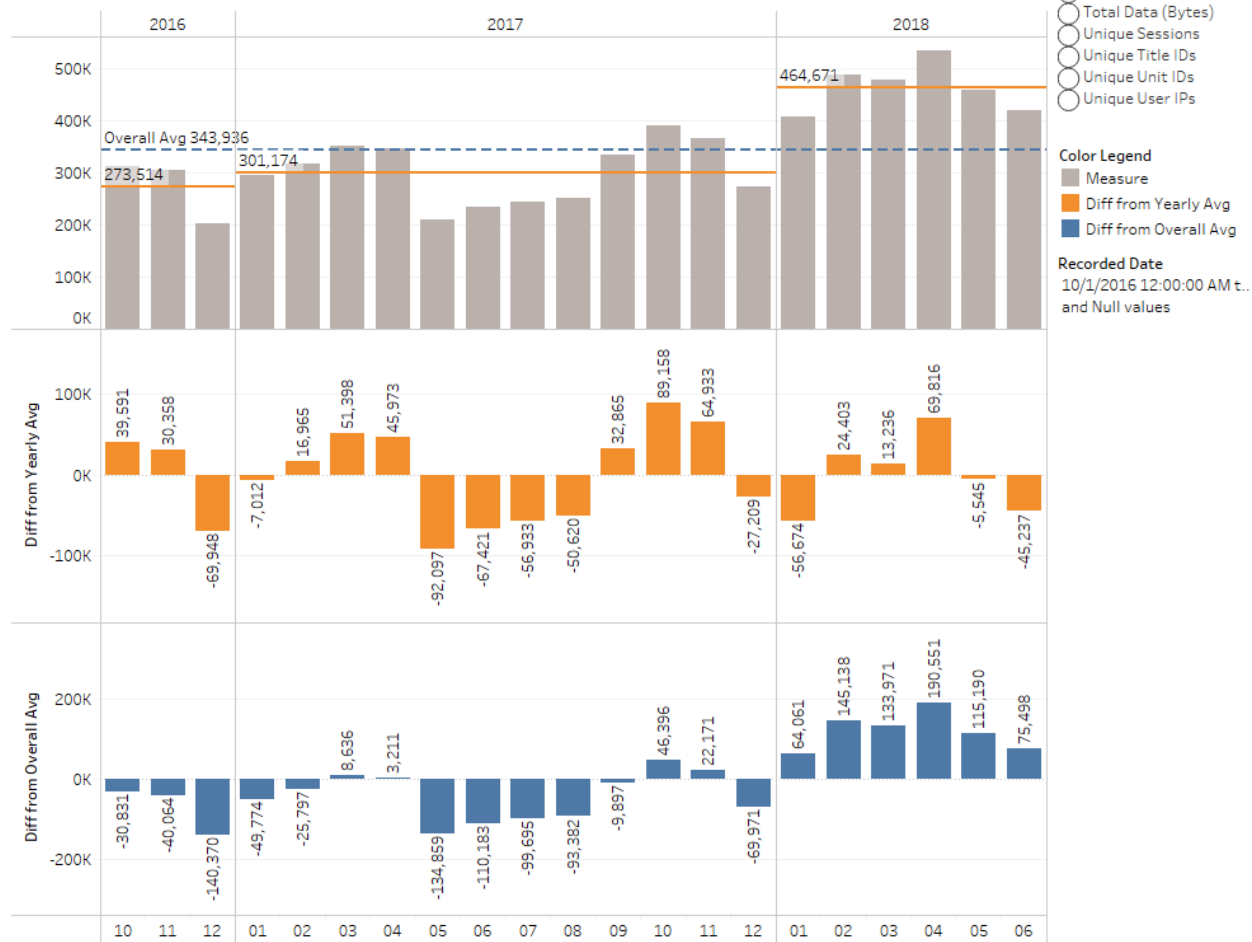


Hover over box plot to see more details



Recorded Date
10/1/2016 12:00:00 AM..
and Null values

Actions Difference From Average



Questions?

THANK YOU!

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Credits & Links

- Presentation template by SlidesCarnival
- <https://trello.com/b/wEaLnz8d/ezpaarse-analogist-suivi-des-plateformes>
- <http://ang.couperin.org/>
- <https://github.com/ezpaarse-project/ezpaarse-platforms>
- <https://regex101.com/>
- <https://github.com/emory-libraries/ezpaarse-platforms>