

LOGS, DAMN LOGS AND

STATISTICS

EDWARD MARCZAK

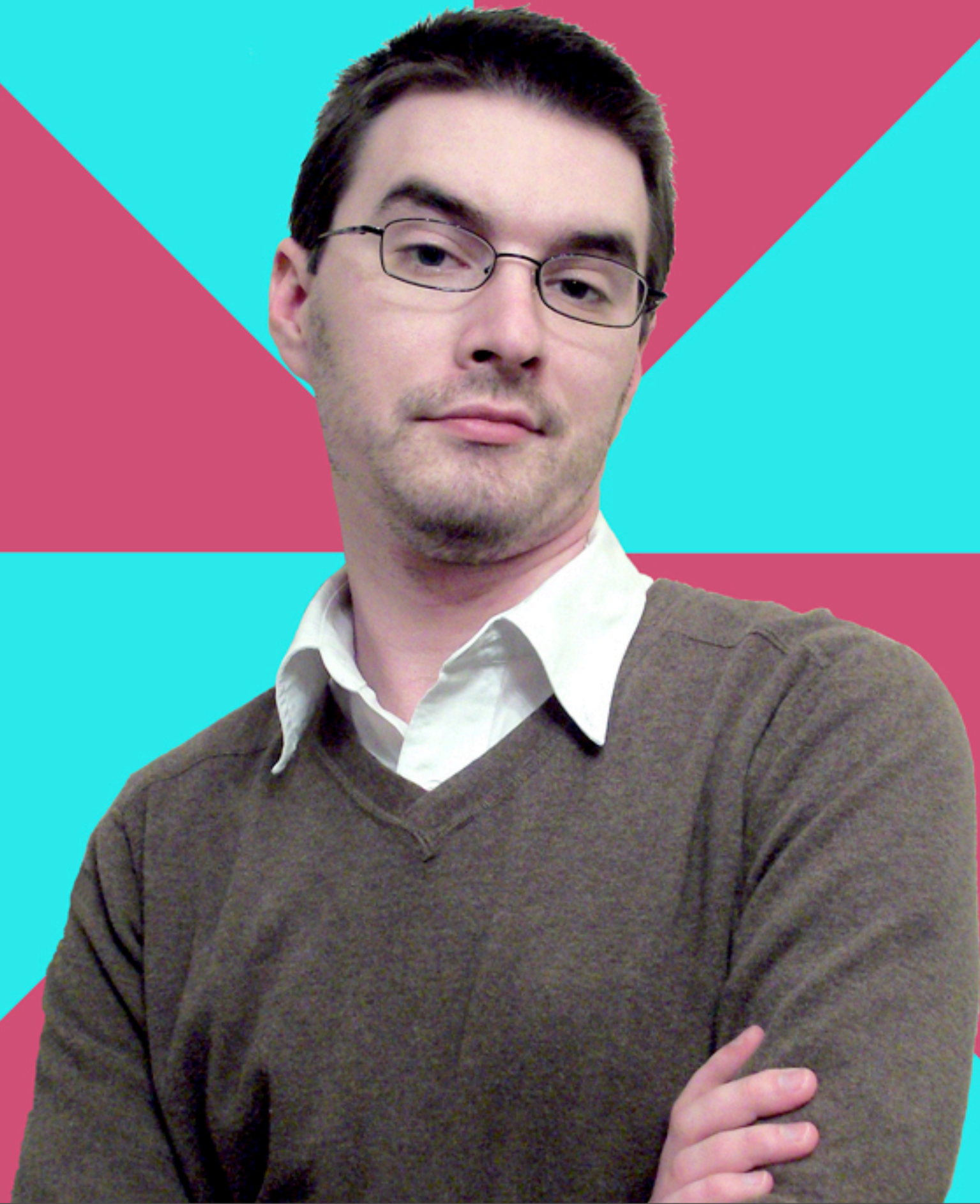
MARCZAK@RADIOTOPE.COM

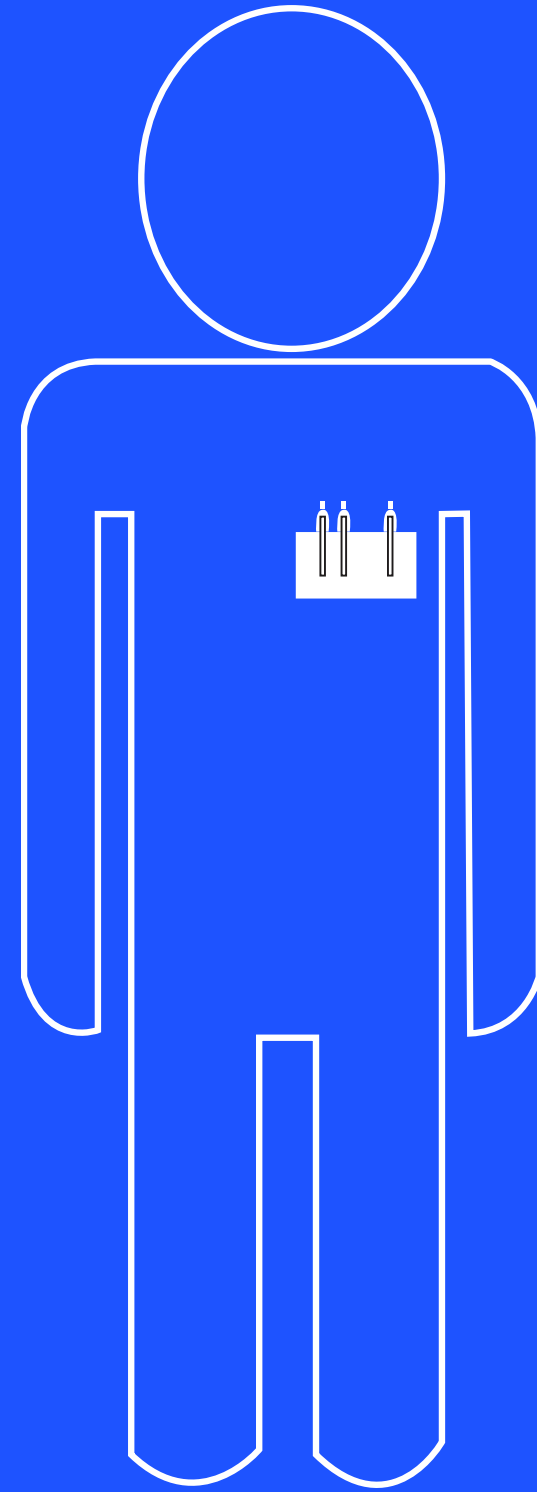
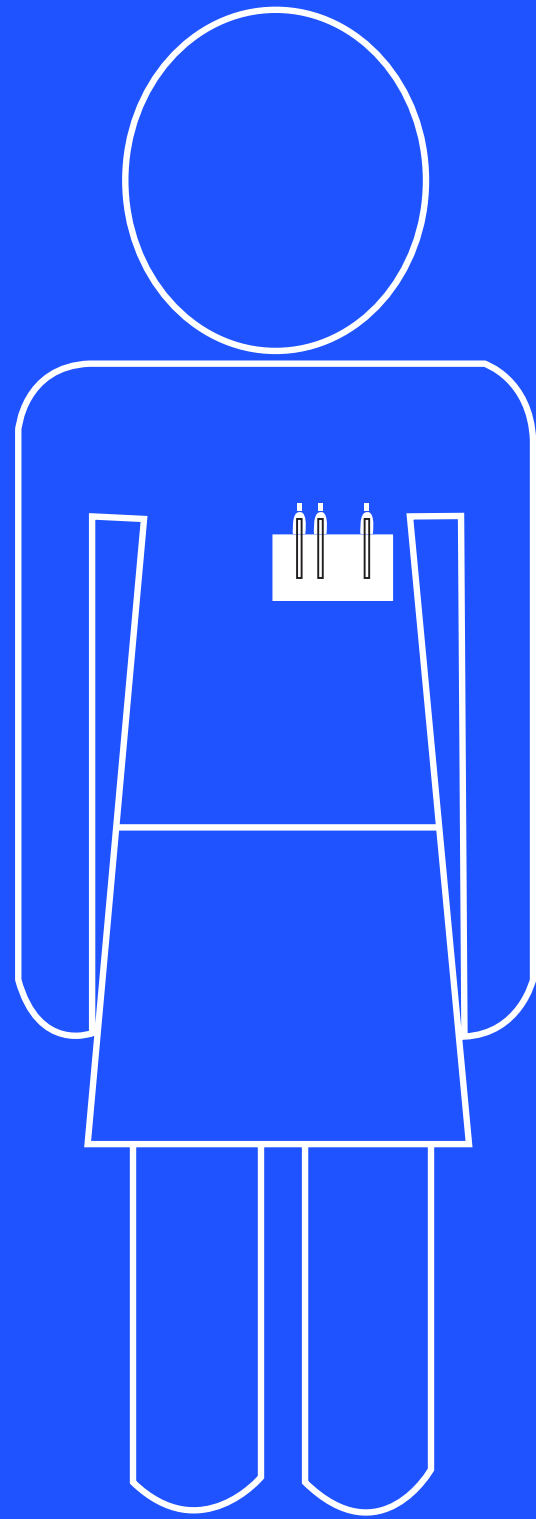
@MARCZAK

[HTTP://RADIOTOPE.COM/NODE/172](http://radiotope.com/node/172)

?



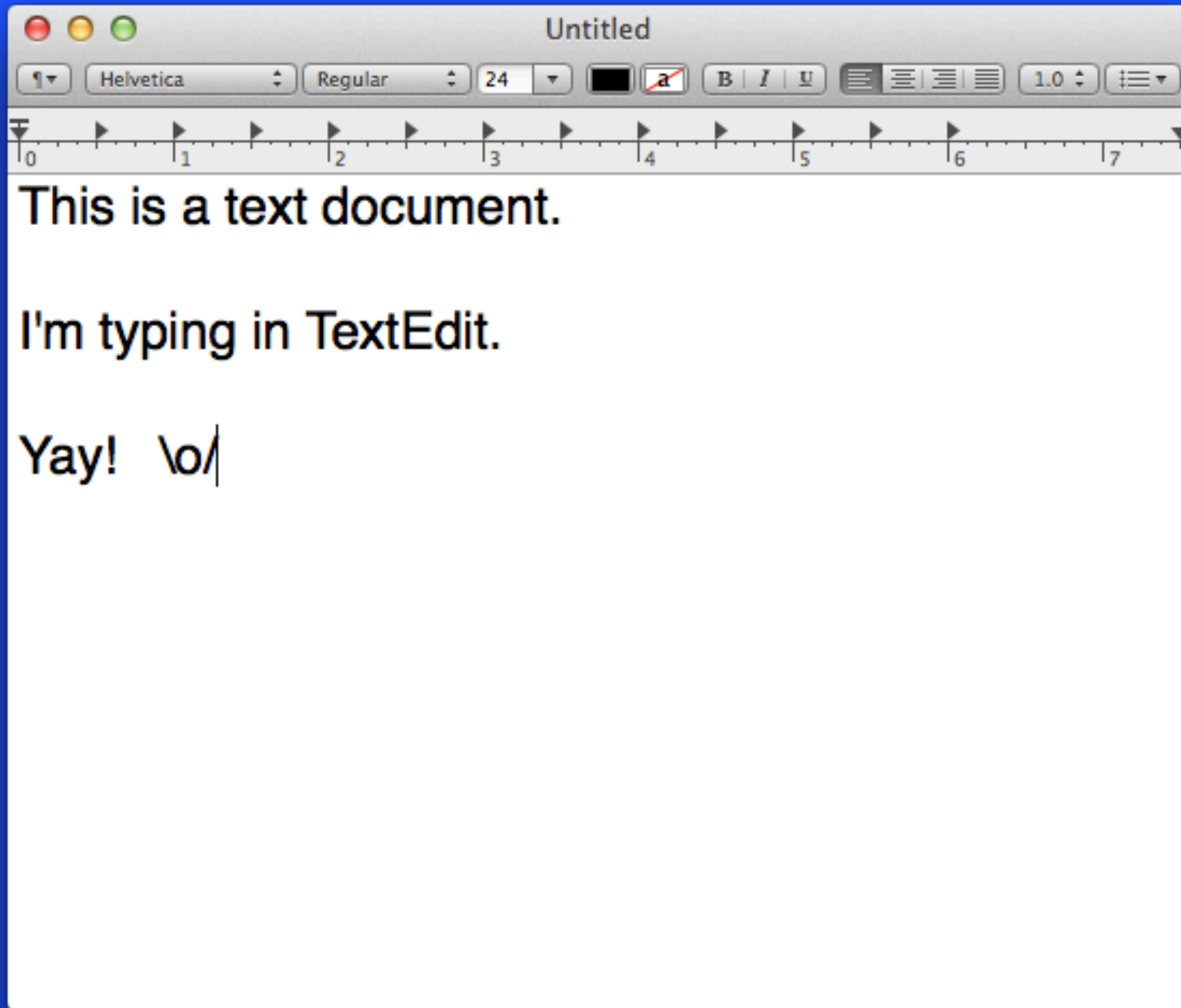




"I DON'T KNOW HOW TO READ
LOGS."

"I'M NOT A TERMINAL PERSON."

"I HATE TEXT."



APR 24 20:51:58 SKARA-BRAE /PASSWORDAGENT[173]: [HYBI] SOCKETDIDDISCONNECT. ERROR
DOMAIN=GEDASYNC SOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X100356080
{NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}

APR 24 20:54:41 SKARA-BRAE SANDBOXD[13664] ([13658]): TEXTEDIT(13658) DENY FILE-READ-DATA /USERS/
MARCZAK/DROPTBOX/LIBRARY/FONTCOLLECTIONS

APR 24 20:54:59 SKARA-BRAE /PASSWORDAGENT[173]: [HYBI] SOCKETDIDDISCONNECT. ERROR
DOMAIN=GEDASYNC SOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X10181E500
{NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}

APR 24 20:56:00 SKARA-BRAE /PASSWORDAGENT[173]: [HYBI] SOCKETDIDDISCONNECT. ERROR
DOMAIN=GEDASYNC SOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X101A181AD
{NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}

APR 24 20:56:56 SKARA-BRAE KEYNOTE[9399]: KCGERROR/ILLEGALARGUMENT. _CGSFINDSHAREDWINDOW: WID -1

APR 24 20:56:56 SKARA-BRAE KEYNOTE[9399]: KCGERRORFAILURE: SET A BREAKPOINT @
CGERRORBREAKPOINT() TO CATCH ERRORS AS THEY ARE LOGGED.

APR 24 20:56:56 SKARA-BRAE KEYNOTE[9399]: KCGERROR/ILLEGALARGUMENT.
CGSETWINDOWSHADOWANDRIMPARAMETERSWITHSTRETCH: INVALID WINDOW 0xFFFFFFFF

APR 24 20:57:00 SKARA-BRAE /PASSWORDAGENT[173]: [HYBI] SOCKETDIDDISCONNECT. ERROR
DOMAIN=GEDASYNC SOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X101A1AB30
{NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}



Al Yankovic @alyankovic

22 Apr

Spent the weekend camping in the desert, surrounded by natural beauty. But no Wi-Fi or 3G. #TheHORROR



Al Yankovic @alyankovic

21 Apr

"Life is nothing but a series of tweetable moments" - René Descartes



Al Yankovic @alyankovic

20 Apr

"Hey, what's a good rhyme for 'El Paso'? Oh wait, I've got it - 'hassle'!" - Steve Miller Band brainstorming session



Al Yankovic @alyankovic

19 Apr

Have you guys heard about all the amazing coincidences between the lives of president Abraham Lincoln and '90s MTV VJ Kennedy? #MindBlown



Al Yankovic @alyankovic

18 Apr

Such sad news. RIP Dick Clark. twitpic.com/9bd5uf

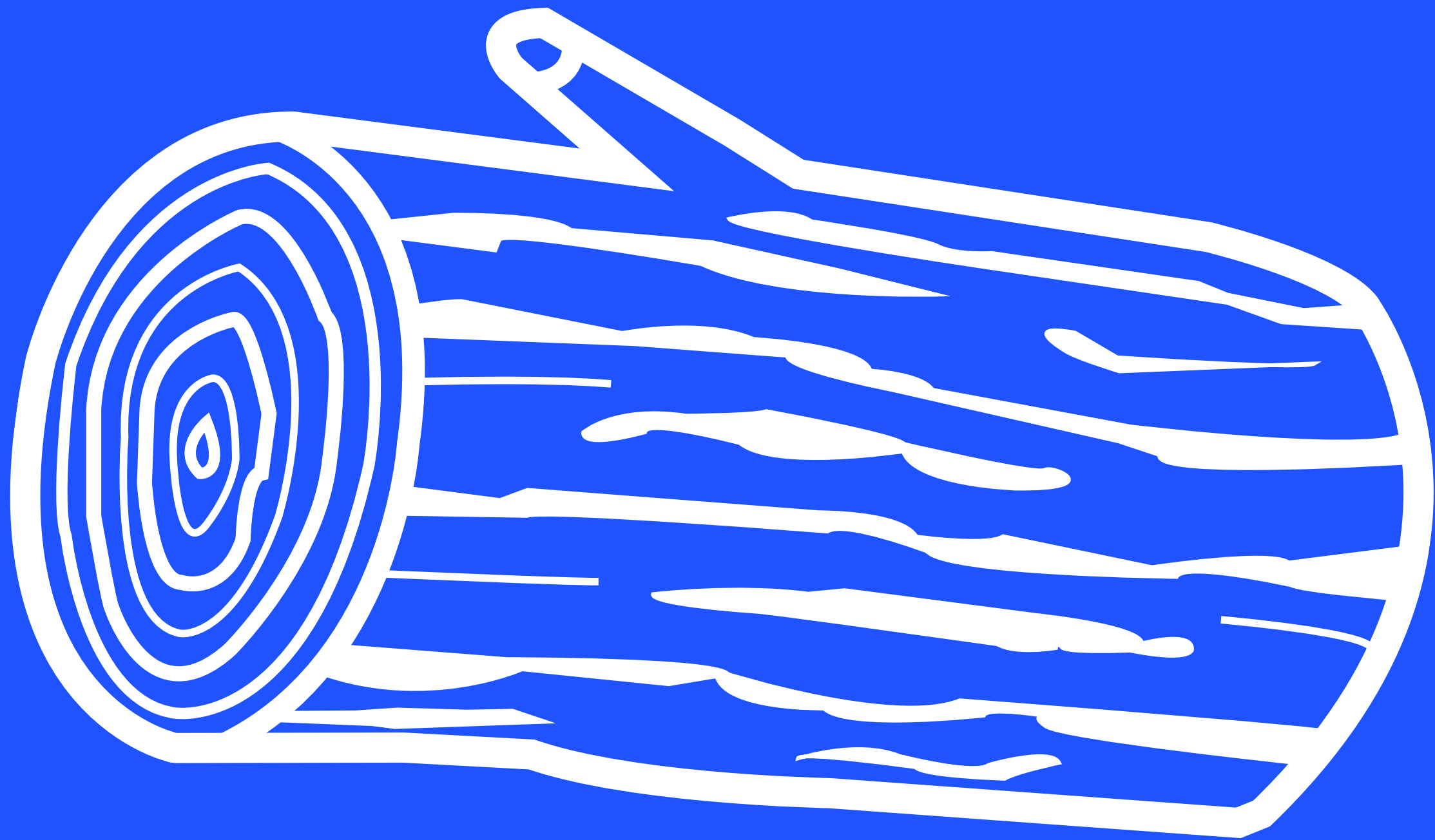
 [View photo](#)



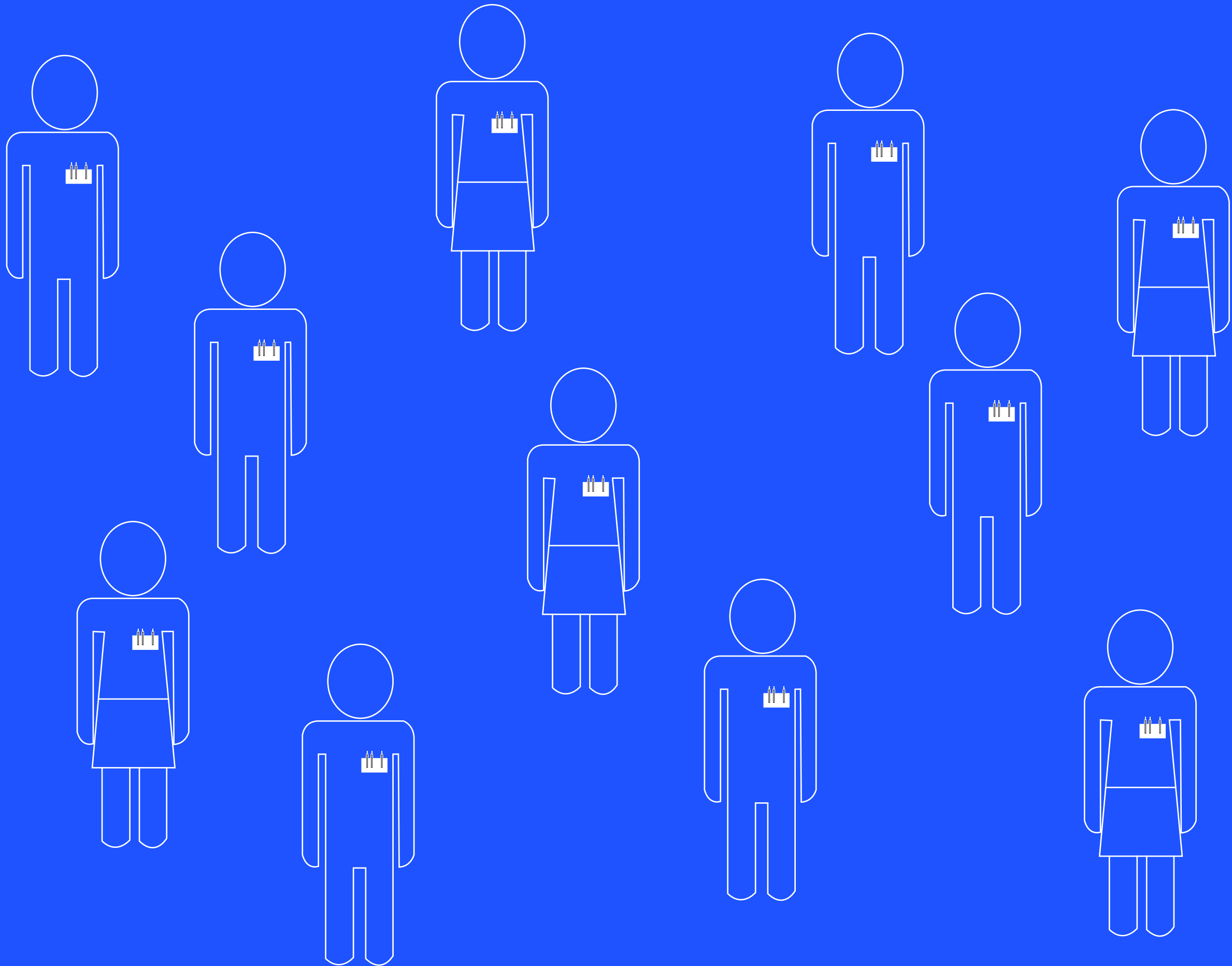
Al Yankovic @alyankovic

18 Apr

You can't walk through hot lava, even if you're wearing ice cube shoes. #ThingsIveLearnedFromMyKid







PARSING TOOLS

- GREP

- SED

- AWK

- ANY REGEX

MAR 9 08:32:37 SKARA-BRAE CONFIGD[15]: NETWORK CONFIGURATION CHANGED.

MAR 9 08:32:37 } TIMESTAMP

SKARA-BRAE } HOSTNAME

CONFIGD[15]: } PROCESS

NETWORK CONFIGURATION CHANGED.

~
MESSAGE

WHERE ARE LOG FILES STORED?

TRADITIONALLY: NATR/LOG

APPLE ADDS: /LIBRARY/LOGS

~/LIBRARY/LOGS

HOW DID I GET HERE?

- DIRECT FILE ACCESS

- SYSLOG MESSAGE

DIRECT WRITE

```
ECHO "STARTING APPLICATION" >> LOGS/MYAPP.LOG
```

```
ECHO "SOMETHING HAPPENED" >> LOGS/MYAPP.LOG
```

```
ECHO "ENDING APPLICATION" >> LOGS/MYAPP.LOG
```

DIRECT WRITE

```
ECHO "$(DATE) ${0}: APP STARTED" >> LOGS/MYAPP.LOG
```

```
APPNAME=${0}
```

```
LOGFILE="LOGS/${APPNAME}.LOG"
```


DIRECT WRITE

```
APPNAME=${0}
```

```
LOGFILE="LOGS/${APPNAME}.LOG"
```

```
FUNCTION LOG {
```

```
    ECHO "$(DATE) ${APPNAME}: ${1}" >> ${LOGFILE}
```

```
}
```

SYSLOG

SYSLOG

```
$ GREP SYSLOG /ETC/SETVICES
```

```
SYSLOG          514/UDP #
```

```
SYSLOG-CONN     601/UDP # RELIABLE SYSLOG SERVICE
```

```
SYSLOG-CONN     601/TCP # RELIABLE SYSLOG SERVICE
```

SYSLOG-MESSAGES

MESSAGES ARE CATEGORIZED BY:

FACILITY

SEVERITY

SYSLOG-FACILITY

NOTICE

AUTHPT2LV

REMOTEAUTH

FTP

INSTALL

INTERNAL

KERN

MAIL

SYSLOG-SEVERITY

(AKA PRIORITY)

EMERGENCY (LEVEL 0)

ALERT (LEVEL 1)

CRITICAL (LEVEL 2)

ERROR (LEVEL 3)

WARNING (LEVEL 4)

NOTICE (LEVEL 5)

INFO (LEVEL 6)

DEBUG (LEVEL 7)

SYSLOG

BASH: LOGGETZ

OBJ-C: NSLOG

PYTHON: LOGGING MODULE

RUBY: SYSLOG MODULE

/ETC/SYSLOG.CONF

LOG ROUTING

\$ ls -C /var/log/*

/var/log/fsck_hfs.log

/var/log/hdparm.log

/var/log/install.log

/var/log/ipfw.log

/var/log/kernel.log

/var/log/launchd-shutdown.log

/var/log/notified.log

/var/log/opendirectoryd.log

/var/log/ppp.log

/var/log/secure.log

/var/log/system.log

/var/log/windowserver.log

/var/log/windowserver_last.log

/ETC/SYSLOG.CONF

```
*.NOTICE;AUTHPRIV,REMOTEAUTH,FTP,INSTALL,INTERNAL.NONE /VAR/LOG/SYSTEM.LOG  
KERN.* /VAR/LOG/KERNEL.LOG
```

```
# SEND MESSAGES NORMALLY SENT TO THE CONSOLE ALSO TO THE SERIAL PORT.
```

```
# TO STOP MESSAGES FROM BEING SENT OUT THE SERIAL PORT, COMMENT OUT THIS LINE.
```

```
#*.ERR;KERN.*;AUTH.NOTICE;AUTHPRIV,REMOTEAUTH.NONE;MAIL.CRIT /DEV/  
TTY.SERIAL
```

```
# THE AUTHPRIV LOG FILE SHOULD BE RESTRICTED ACCESS; THESE
```

```
# MESSAGES SHOULDN'T GO TO TERMINALS OR PUBLICALLY-READABLE
```

```
# FILES.
```

```
AUTH.INFO;AUTHPRIV.*;REMOTEAUTH.CRIT /VAR/LOG/SECURE.LOG
```

```
LPR.INFO /VAR/LOG/LPR.LOG
```

/ETC/SYSLOG.CONF

FACILITY.PRIORITY

/PATH/TO/LOGFILE

FTP.*

NATZ/LOG/FTP.LOG

LPR.INFO

NATZ/LOG/LPR.LOG

AUTH.INFO;AUTHPRIV.*

NATZ/LOG/SECURE.LOG

*.NOTICE;AUTHPRIV

NATZ/LOG/SYSTEM.LOG

.

NATZ/LOG/UBERTZ.LOG

INSTALL.*

NATZ/LOG/INSTALL.LOG

INSTALL.*

@127.0.0.1:32376

SYSLOG-CLEANING UP

/usr/bin/newsyslog

/ETC/NEWSYSLOG.CONF

| | | | | | |
|----------------------|-----|---|------|---|---|
| NATZ/LOG/FTP.LOG | 640 | 5 | 1000 | * | J |
| NATZ/LOG/HWMOND.LOG | 640 | 5 | 1000 | * | J |
| NATZ/LOG/INSTALL.LOG | 640 | 5 | 1000 | * | J |
| NATZ/LOG/IPFW.LOG | 640 | 5 | 1000 | * | J |

SYSLLOG-CLEANING UP

```
$ ls -l /var/log/kernel.*
```

```
/var/log/kernel.log
```

```
/var/log/kernel.log.0.bz2
```

```
/var/log/kernel.log.1.bz2
```

NEWSYSLOG[2345]: LOGFILE

TURNAED OVER DUE TO SIZE > 100K

SYKLOG-CLEANING UP

```
$ tail /var/log/kernel.log.D.BZ
```

```
BZ#9114&SY?? ?~DZ?????????@A?? 4Q@?@  
T?????;&6?({??^?dz;?{;?/??6W?u?L?~???M?}?>?????  
&?
```

```
???-??p@{??i?*_C????=??>?????
```

```
?s??????s??????k??????f??|&?????
```

```
[?
```

```
????73?M?????
```

```
?????-??*??{?? ??s????_w??x??q?|?p;?s????7??~??$?!?4?V?  
T??-W??0?0=q????u??=  
??w?>???????????
```

```
?*??(~?6}????P??IM\=u0????\??(? }#?4+?????A?)%V????Q?
```

SYSLLOG-CLEANING UP

CAT NATZ/LOG/KERNEL.LOG.D.BZZ | BUNZIPZ | TAIL -4

SYSLLOG-CLEANING UP

BZCAT NATZ/LOG/KERNEL.LOG.0.BZZ | TAIL -4

REMOTE SYSLOG

```
$ GREP SYSLOG /ETC/SETVICES  
SYSLOG          514/UDP #
```

REMOTE SYSLOG

FACILITY.PRIORITY@SYSLOG.SERVERADDRESS:PORT

UDP?

ASL

DEFAULTS WRITE /LIBRARY/

PREFERENCES/

COM.APPLE.APPLEPUSHSERVICE

APSWRITELOGS -BOOL TRUE

DEFAULTS WRITE /LIBRARY/

PREFERENCES/

COM.APPLE.APPLEPUSHSERVICE

APPSLOGLEVEL -INT 7

ODUTIL SET LOG DEBUG

SEARCH

HOW DO I

HOW DO I TAKE PICTURES

HOW DO I LOVE THEE

HOW DO I BEAT SKYRIM

HOW DO I WIN AT CHESS

How Do I Get To
CARNEGIE HALL?

“

YOU WILL BE FOOLED BY A TRICK
IF IT INVOLVES MORE TIME, MONEY
AND PRACTICE THAN YOU (OR
ANY OTHER SANE ONLOOKER)
WOULD BE WILLING TO INVEST. ”

-TELLER, SMITHSONIAN
MAGAZINE MARCH 2012

Preview

```
/dev/rdisk2s2:      Executing fsck_hfs (version
diskdev_cmds-540.1~25).
QUICKCHECK ONLY; FILESYSTEM CLEAN

/dev/rdisk2s2: fsck_hfs run at Wed Apr 25 09:25:23 2012
/dev/rdisk2s2: *# /dev/rdisk2s2 (NO WRITE)
/dev/rdisk2s2:      Executing fsck_hfs (version
diskdev_cmds-540.1~25).
QUICKCHECK ONLY; FILESYSTEM CLEAN

/dev/rdisk2s2: fsck_hfs run at Wed Apr 25 09:25:23 2012
/dev/rdisk2s2: *# /dev/rdisk2s2 (NO WRITE)
/dev/rdisk2s2:      Executing fsck_hfs (version
diskdev_cmds-540.1~25).
QUICKCHECK ONLY; FILESYSTEM CLEAN

/dev/rdisk2s2: fsck_hfs run at Wed Apr 25 21:09:46 2012
/dev/rdisk2s2: *# /dev/rdisk2s2 (NO WRITE)
/dev/rdisk2s2:      Executing fsck_hfs (version
diskdev_cmds-540.1~25).
QUICKCHECK ONLY; FILESYSTEM CLEAN

/dev/rdisk2s2: fsck_hfs run at Wed Apr 25 21:09:57 2012
/dev/rdisk2s2: *# /dev/rdisk2s2 (NO WRITE)
/dev/rdisk2s2:      Executing fsck_hfs (version
diskdev_cmds-540.1~25).
```

Options...

Test

UTILITIES

- CAT
- GUNZIP/BZCAT
- TAIL
- LESS/MORE
- SYSLOG (ASL)

System Log window titled "All Messages". The window includes a toolbar with icons for "Hide Log List", "Move to Trash", "Clear Display", "Reload", "Ignore Sender", "Inspector", "Insert Marker", "Activity Monitor", and "Terminal". A search bar at the top right contains "String Matching" and a "Filter" button.

The main content area displays a list of system log messages. The messages include:

- 6:08:12 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 60011405, but I couldn't find any compu
- 6:08:13 PM kernel: utun_ctl_connect: creating interface utun0
- 6:08:13 PM configd: en3: DHCP duplicate configured service
- 6:08:13 PM configd: en3: AUTOMATIC-V6 duplicate configured service
- 6:08:19 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 390468735873843458, but I couldn't find
- 6:08:18 PM SafariDAVClient: ServerNotifications: Setting delegate to APSD
- 6:08:19 PM SafariDAVClient: Subscription request completed
- 6:08:21 PM SafariDAVClient: Subscription request completed
- 6:08:28 PM SafariDAVClient: Subscription request completed
- 6:08:51 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:09:29 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 60010804, but I couldn't find any compu
- 6:09:52 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:09:59 PM com.smithmicro.vzwwirelessd: Apr 20 18:09:59 Skara-Brae com.smithmicro.vzwwirelessd[4769] <Info>: Shutting down
- 6:10:52 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:11:53 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:12:53 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:12:58 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 420604, but I couldn't find any compute
- 6:13:44 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 402402, but I couldn't find any compute
- 6:13:54 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:13:59 PM CrashPlan menu bar: CPMessagesHandler Asked to change 'isConnected' status for GUID 421202, but I couldn't find any compute
- 6:14:54 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:15:55 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:16:55 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:17:56 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:18:56 PM 1PasswordAgent: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" U
- 6:19:43 PM SyncServer: [0x10b616e60] |DataManager|Warning| Client com.apple.DotMacSync image file path /System/Library/PreferencePane

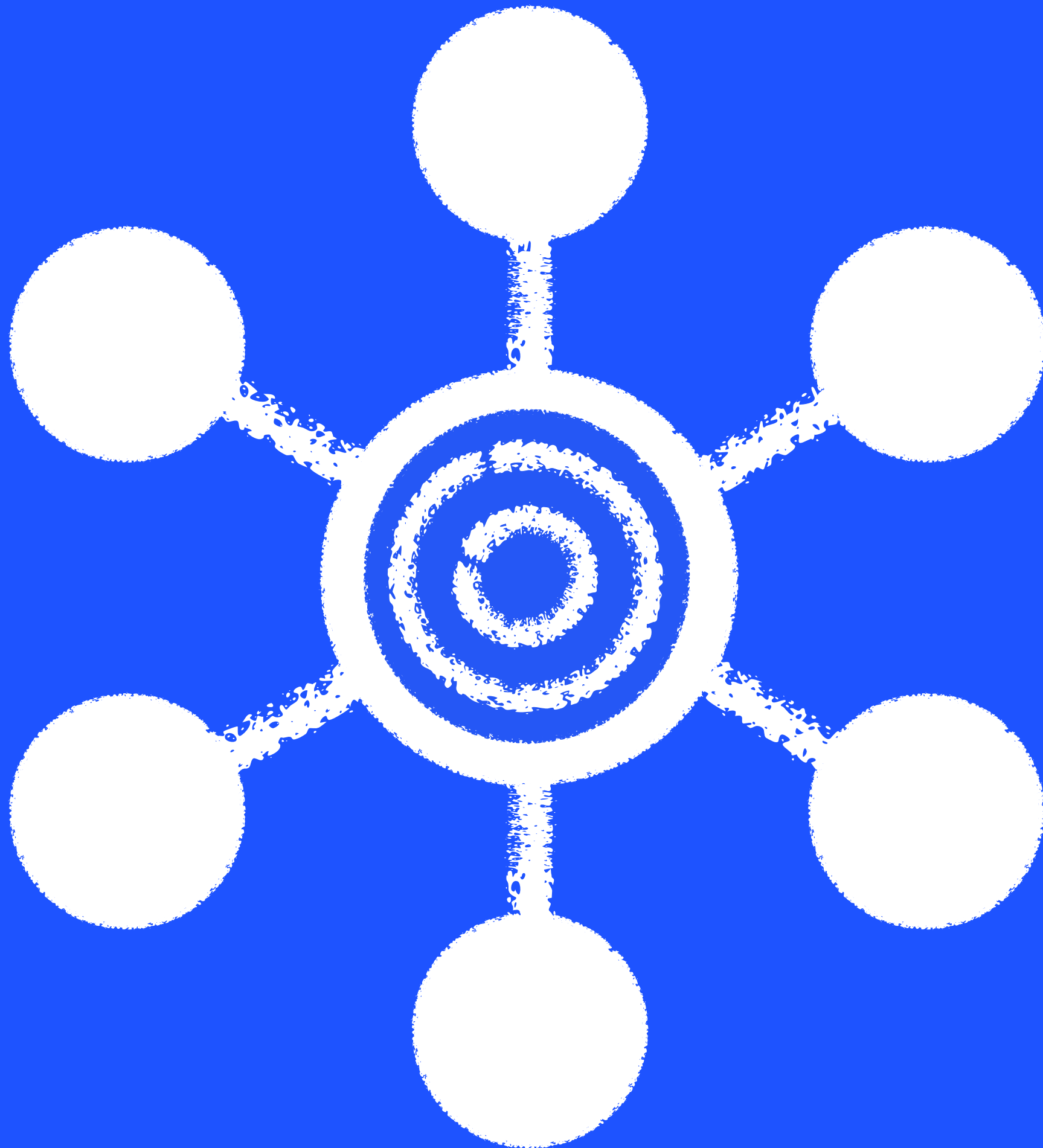
The left sidebar shows a tree view with categories: "SYSTEM LOG QUERIES" (containing "All Messages"), "DIAGNOSTIC AND USAGE INFORMATION" (containing "Diagnostic and Usage Messages" and "User Diagnostic Reports"), and "FILES" (containing "system.log" and "kernel.log").

At the bottom of the window, it displays "4000 messages from 4/18/12 12:00:36 PM to 4/20/12 6:29:01 PM" and navigation buttons for "Earlier" and "Later".

CONSOLE

WHAT HAVE I

DONE?



SPLUNK

All time



All indexed data

This lists all of the data you have loaded into your default indexes. [Add more data.](#)

| | | |
|----------------|--------------------------|--------------------------|
| Events indexed | Earliest event | Latest event |
| 86,764 | Sun Mar 11 18:55:00 2012 | Sat Apr 28 17:17:25 2012 |

Sources (≥ 1)

| | source ↕ | Count ↕ | Last Update ↕ |
|---|----------|---------|--------------------------|
| 1 | udp:514 | 86,763 | Sat Apr 28 17:17:25 2012 |

Source types (≥ 1)

| | sourcetype ↕ | Count ↕ | Last Update ↕ |
|---|--------------|---------|--------------------------|
| 1 | syslog | 86,764 | Sat Apr 28 17:17:25 2012 |

Hosts (≥ 10)

| | host ↕ | Count ↕ | Last Update ↕ |
|---|-----------------|---------|--------------------------|
| 1 | 127.0.0.1 | 29,458 | Sat Apr 28 17:17:25 2012 |
| 2 | 192.168.100.219 | 25,429 | Wed Mar 21 23:28:48 2012 |
| 3 | 192.168.100.222 | 11,801 | Wed Mar 28 06:58:18 2012 |

Add Data to Splunk

Choose a Data Type

A file or directory of files

Syslog

Windows event logs

Windows Registry

Windows performance metrics

Unix/Linux logs and metrics

File integrity monitoring

Configuration files

OPSEC LEA

Cisco device logs

IIS logs

Apache logs

WebSphere logs, metrics and other data

Any other data...

Or Choose a Data Source



From files and directories



From a TCP port



From a UDP port



Run and collect the output of a script

Is your data on another machine, besides this Splunk server? Install Splunk's [universal forwarder](#) on that machine and tell it to send the data to this Splunk server.

Search

host="192.168.100.219"

All time

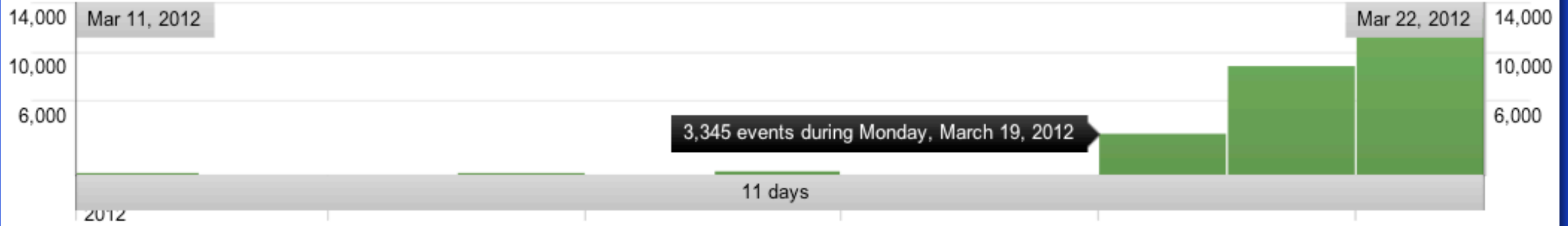


25,429 matching events

Navigation icons: back, pause, refresh, close, info, print, save, create

Hide Zoom out Zoom to selection Deselect

Linear scale



Field discovery is: On

Hide

3 selected fields

- host (1)
- source (1)
- sourcetype (1)

Edit

25,429 events over all time

Export « prev 1 2 3 4 5 6 7 8 9 10 next » 10 per page

Options

| | | | |
|---|----------------------------|---------------------------------|---|
| 1 | 3/21/12 11:28:48.000 PM | Mar 21 23:28:48 192.168.100.219 | Mar 21 23:29:03 Paws racoon[132]: [132] |
|---|----------------------------|---------------------------------|---|

INFO: fe80::1%lo0[4500] used as isakmp port (fd=21)

Field discovery is: On

[Hide](#)

3 selected fields

[Edit](#)

a host (2)

a source (1)

a sourcetype (1)

8 interesting fields

a index (1)

linecount (1)

pid (3)

a process (3)

a punct (6)

a splunk_server (1)

timeendpos (1)

timestartpos (1)





[View all 23 fields](#)

1,081 events in the last day (since 5:19:48 PM April 27, 2012)

   [Export](#)

« prev **1** 2 3 4 5 6 7 8 9 10 next » 10 per page ▾

Options

- | | | |
|---|---|---|
| 1 |  4/28/12 5:19:18.000 PM | Apr 28 17:19:18 192.168.100.218 Apr 28 17:19:18 Skara-Brae 1PasswordAgent[173]: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101a42eb0 {NSLocalizedString=Socket closed by remote peer} host=192.168.100.218 ▾ sourcetype=syslog ▾ source=udp:514 ▾ |
| 2 |  4/28/12 5:18:19.000 PM | Apr 28 17:18:19 127.0.0.1 Apr 28 17:18:19 Marczak-Familys-Mac-mini com.apple.usbmuxd[53]: HandleUSBMuxConnect Client 0x101c79d20-iTunes/com.apple.iTunes requesting attach to 0x361:62078 failed , no such device host=127.0.0.1 ▾ sourcetype=syslog ▾ source=udp:514 ▾ |
| 3 |  4/28/12 5:18:19.000 PM | Apr 28 17:18:19 127.0.0.1 Apr 28 17:18:19 Marczak-Familys-Mac-mini AppleMobileDeviceHelper[2497]: 2497:2904531648 AppleMobileDeviceHelper.m:_getDisabledDataClassNamesFromLockdo ERROR : Could not find a device with the target identifier d56d4bc548bd7e996d2927731f22f7c20fc27662. Assuming there are no disabled data host=127.0.0.1 ▾ sourcetype=syslog ▾ source=udp:514 ▾ |
| 4 |  4/28/12 5:18:17.000 PM | Apr 28 17:18:17 192.168.100.218 Apr 28 17:18:17 Skara-Brae 1PasswordAgent[173]: [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101b06610 {NSLocalizedString=Socket closed by remote peer} host=192.168.100.218 ▾ sourcetype=syslog ▾ source=udp:514 ▾ |

```
error OR failed OR severe OR ( sourcetype=access_* ( 404 OR 500 OR 503 ) )
```

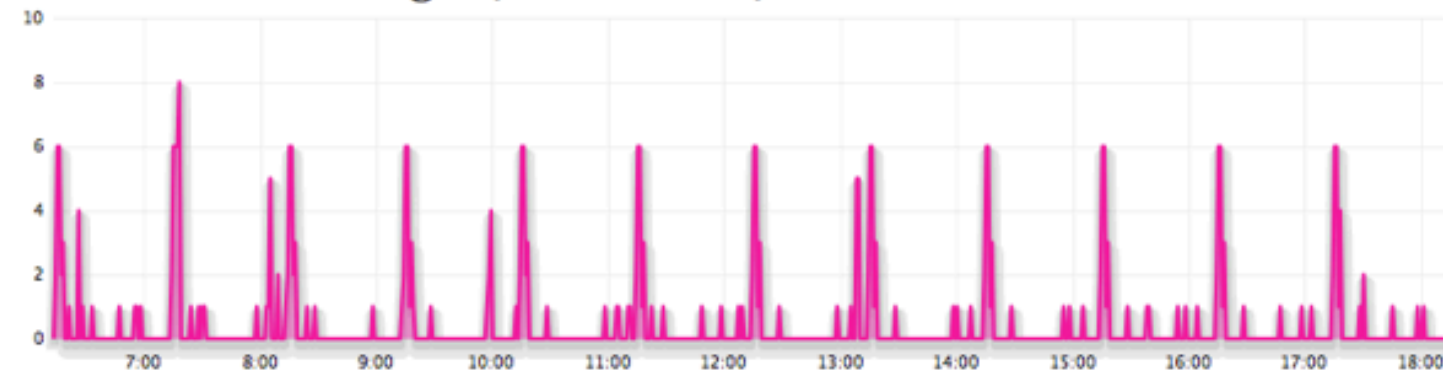
GRAYLOG



marczak #

Analytics

Count of new messages (last 12 hours.)



Count of number of messages from all hosts. Select a range with your mouse and click the button to see all messages in the selected range.

12 Hours Days Weeks

The analytics shell

This shell allows you to query all messages in a structured and dynamic way. The complete syntax description and examples are documented in the [Graylog2 wiki](#).

Selectors

- all
- stream([stream_id])
- streams([stream_id], [stream_id], ...)

Operators

- find
- count
- distribution

Conditional operators

- < >
- <= >=
- = !=

Data types

- String: "something"
- Integer: 9001

Additional fields must be prefixed with an underscore. Find queries are limited to 500 results. Use the quickfiltering if you need more and pagination.

The stream() and streams() selectors also take stream shortnames as parameters.

The fields `message` and `full_message` are broken to terms. This means that searches on them do not mean *equals [search term]* but *contains [search term]*.

Examples:

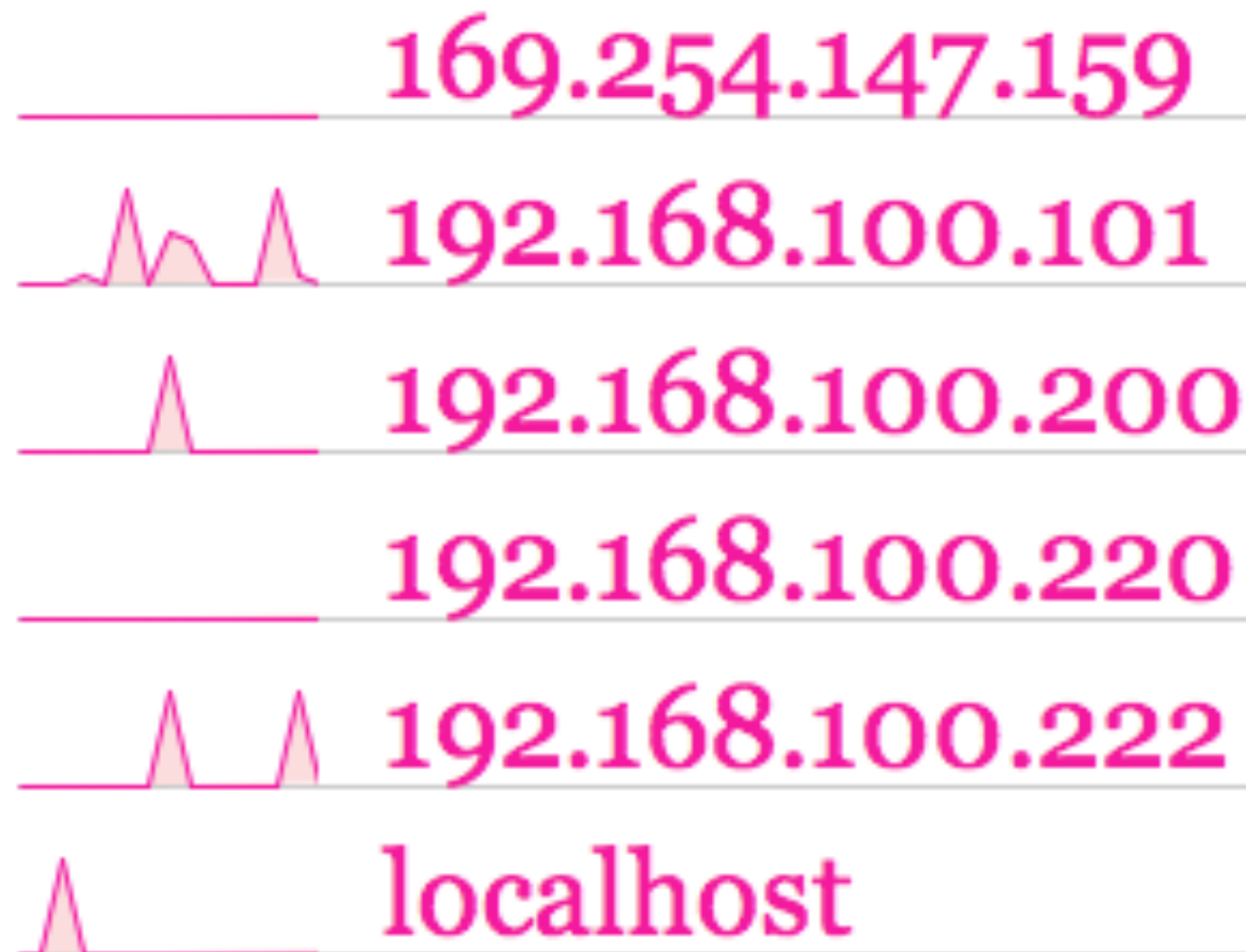
- all.find()
- all.count(host = "example.org", _http_response_code = 204)
- all.distribution([host], _http_response_code > 500)
- stream(some_stream).distribution(_processed_controller, _http_response_code = 500)

Hosts

Quick jump to host:



Go!

Monitoring 6 hosts.



Messages


Currently containing **35.719** messages. Oldest message is from **25.04.2012 - 12:54:15**. Stored **13** messages in the last 10 minutes.

Message: 
 Timeframe: 
 Facility:
 Severity: or higher
 Host:

Add additional field

Run filter

Quickfilter hit **83** messages.

| Date | Host | Sev. | Facility | Message |  |
|-----------------------|-----------------|--------|------------|---|---|
| 2012-04-29 14:40:07.0 | 192.168.100.222 | Notice | user-level | ladmins-MacBook-Pro mdworker[1820]: zip importer encountered an error (2) scanning "/Users/emily/Music/iTunes/Mobile Applications/com.newtoyinc.WordsWi ... | |
| 2012-04-29 14:39:49.0 | 192.168.100.222 | Notice | user-level | ladmins-MacBook-Pro mdworker[1820]: zip importer encountered an error (2) scanning "/Users/emily/Music/iTunes/Mobile Applications/com.younggam.LockScre ... | |
| 2012-04-29 14:38:37.0 | 192.168.100.222 | Notice | user-level | ladmins-MacBook-Pro mdworker[1820]: zip importer encountered an error (2) scanning "/Users/emily/Music/iTunes/Mobile Applications/com.fabiociotoli.twee ... | |
| 2012-04-29 14:38:08.0 | 192.168.100.222 | Notice | user-level | ladmins-MacBook-Pro mdworker[1820]: zip importer encountered an error (2) scanning "/Users/emily/Music/iTunes/Mobile Applications/com.google.Translate. ... | |

x

Message

w5B2HI_gSkaJ_BUCpF7BQw

```
Partylog2 CRON[17154]: (root) CMD ( cd / && run-  
parts --report /etc/cron.hourly)
```

In which terms was this message broken to?

From: **localhost**

Date: **2012-04-29 14:17:01 -0400**

Severity: **Info**

Facility: **clock**

Full message:

```
<78>Apr 29 14:17:01 Partylog2 CRON[17154]: (root)  
CMD ( cd / && run-parts --report  
/etc/cron.hourly)
```

[Permalink](#)

DIY

LANGUAGE OF CHOICE

+ WEB SERVICE

+ DATABASE

+ GRAPHING LIBRARY

HOSTED

Unix `/var/log/*`
system

MySQL query log
database

Rails request log
application

Apache access log
server

papertrail

Dashboard
All Systems
971 events
last seen about 1 month ago

Search Results
3pm yesterday

Edit Saved Search
Name this search: Nightly billing runs
Group: Production
Query: cron billing

Aggregate
Logs from all apps, files, and syslog.

Tail & Search
In realtime - from a browser, command-line, and API.

React & Analyze
Send alerts, detect trends, and securely archive.

Hosted log management for servers, apps, and cloud services.

Instantly manage logs from 2 servers—or 2,000.

Start Logging!

Free. No expiration.
No credit card.

Papertrail helps **detect, resolve, and avoid infrastructure problems** using log messages. Papertrail's practicality comes from **our own experience** as sysadmins and developers, and entrepreneurs. [Take the tour](#) or [sign up](#).

Take a Tour

Pricing & Sign Up

Starts at **\$0**. Setup takes one minute.

STATISTICAL

ANALYSIS

R

RStudio

Project: (None)

```
1 x <- scan("~/src/Jay/access_log", what="", sep="\n")
2 x[1]
3 length(x)
4
5 # Get starting and ending position of date/time stamps
6 # using vectorized regular expressions:
7 start <- regexpr("[", x, fixed=TRUE)
8 end <- regexpr("]", x, fixed=TRUE)
9 x[1]
10 start[1]
11 end[1]
12
13 # Poke around a bit
14 table(start)
15 table(end)
16 table(end-start)
17
```

Workspace History

| Data | Observations | Variables |
|-----------|----------------------|--------------|
| hfh5k2011 | 351 obs. | 8 variables |
| hhh2011 | 1239 obs. | 12 variables |
| x | 1708 obs. | 1 variables |
| y | 591x1 integer matrix | |

Values

| start | Value |
|-------|--------------|
| start | character[8] |

Console

```
3: In max(x) : no non-missing arguments to max; returning -Inf
4: In xy.coords(x, y, xlabel, ylabel, log) : NAs introduced by coercion
> as.matrix(summary(x))

message
SierraSWoCMon(0x4d)(0xac5ed2c0): +++
: 47
[HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 Socket closed by remote peer UserInfo=0x101854670
{NSLocalizedDescription=Socket closed by remote peer}: 30
[HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 Socket closed by remote peer UserInfo=0x100352a70
{NSLocalizedDescription=Socket closed by remote peer}: 27
kCGErrorIllegalArgument: CGSSetWindowTransformAtPlacement: Failed
: 27
kCGErrorIllegalArgument: CGSSetWindowTransformsAtPlacement: Failed
: 27
[HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 Socket closed by remote peer UserInfo=0x101a3a8b0
{NSLocalizedDescription=Socket closed by remote peer}: 25
(Other)
:1525
> as.matrix(summary(x))[1,1]
[1] "SierraSWoCMon(0x4d)(0xac5ed2c0): +++
: 47 "
```

Files Plots Packages Help

Histogram of hhh2011\$Age

| Age Range | Frequency |
|-----------|-----------|
| 0-10 | 50 |
| 10-20 | 170 |
| 20-30 | 150 |
| 30-40 | 175 |
| 40-50 | 300 |
| 50-60 | 260 |
| 60-70 | 90 |
| 70-80 | 30 |
| 80-90 | 10 |
| 90-100 | 5 |

APPLICATIONS OF R IN BUSINESS COMPETITION

Revolution Analytics is proud to announce the winners of the inaugural Applications of R in Business competition, which offered a total of \$20,000 in cash prizes to the best examples of applying the [R statistics language](#) to real-world business problems.

The top prizes were selected by a panel of independent judges: Edd Dumbill, Chair of O'Reilly's Strata Conference and writer for O'Reilly Media; David Menninger, VP and Research Director at Ventana Research; Steve Miller, technology writer and co-founder of OpenBI LLC; David White, Senior Research Analyst at Aberdeen Group; and Hadley Wickham, R package author and professor at Rice University. Based on the judges' aggregate scores, the winners are:

Grand Prize - \$10,000

Shannon Terry and Ben Ogorek, Nationwide Insurance (USA)

[A Direct Marketing In-flight Forecasting System](#)

Runner Up Prize - \$5,000

Jeffrey Breen, Atmosphere Research Group (USA)

[Mining Twitter for Airline Consumer Sentiment](#)

The following entries were selected for Honorable Mention prizes by Revolution Analytics:

Honorable Mention - \$1,000

Hakan Koç and Bengt Maas, Salzgitter Mannesmann Forschung GmbH (Germany)

[Towards an ideal steel plant - Online liquid steel temperature prediction using R](#)

Honorable Mention - \$1,000



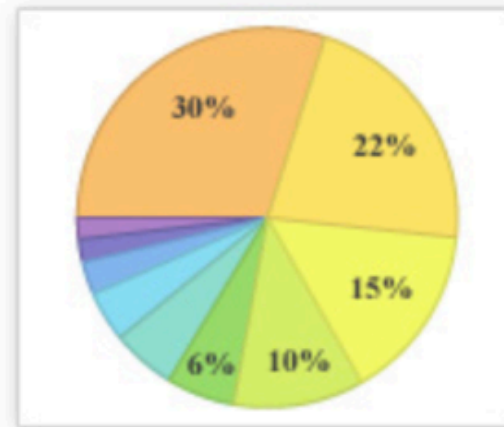
facebook report



[Examples](#)
[Random](#)



Friend community network



Friend statistics

■ statuses | ■ posted links | ■ uploaded videos
■ check-ins
(based on previous 1677 wall posts)

Posting types:

| type | count | ratio | |
|-----------------|-------|----------------------|---------------------------------------|
| uploaded photos | 1176 | <input type="text"/> | ■ |
| posted links | 384 | <input type="text"/> | ■ |
| statuses | 100 | <input type="text"/> | ■ |
| uploaded videos | 14 | <input type="text"/> | ■ |
| check-ins | 3 | <input type="text"/> | ■ |

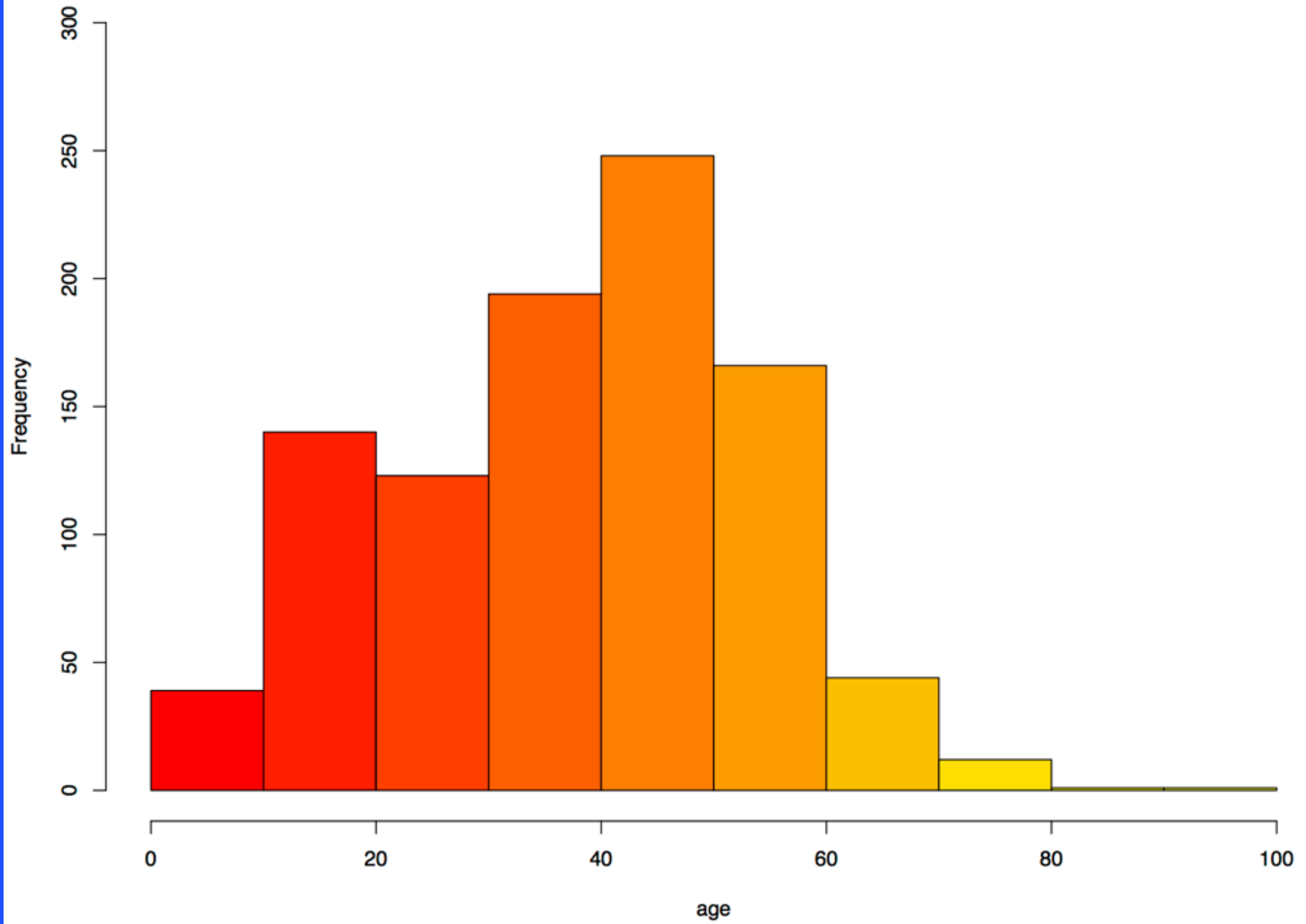
Daily posting activity



Analyze My Facebook Data

[Learn more about Wolfram|Alpha Personal Analytics »](#)

Runner Age





SIERRASWOCMON(0X4D)(0XAC5ED7CD): +++ : 47

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D185467D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 30

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D00352A7D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMATPLACEMENT.
FAILED : 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMSPLACEMENT.
FAILED : 27

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D1A3A8BD {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 25

SIERRASWOCMON(0X4D)(0XAC5ED7CD): +++ : 47

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D185467D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 30

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D00352A7D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMATPLACEMENT.
FAILED : 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMSPLACEMENT.
FAILED : 27

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D1A3A8BD {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 25

SIERRASWOCMON(0X40)(0XAC5ED7C0): +++ : 47

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X101854670 {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 30

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X100352A70 {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMATPLACEMENT.

FAILED : 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMSPLACEMENT.

FAILED : 27

[HYBI] SOCKETDIDDISCONNECT. ERROR DOMAIN=GEDASYNC SOCKET ERROR DOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X101A3A8B0 {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 25

SIERRASWOCMON(0X4D)(0XAC5ED7CD): +++ : 47

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D185467D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 30

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D00352A7D {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMATPLACEMENT.
FAILED : 27

KCGERRORILLEGALARGUMENT. CGSETWINDOWTRANSFORMSPLACEMENT.
FAILED : 27

[HYBI] SOCKETDIDDISCONNECT. ERRORDOMAIN=GEDASYNCSOCKETERRORDOMAIN CODE=7 "SOCKET CLOSED BY REMOTE PEER" USERINFO=0X1D1A3A8BD {NSLOCALIZEDDESCRIPTION=SOCKET CLOSED BY REMOTE PEER}: 25

(OTHER)

:1498

Column 1

change

61 choices Sort by: **name** count

Cluster

externalIP = "0.0.0.0"; 2

externalIP = "68.194.171.81"; 2

secondsSinceStartOfEpoch =
117440512; 2

secondsSinceStartOfEpoch =
251658240; 2

senderAddress = "192.168.100.1"; 4
} 4

The domain/default pair of
(/Applications/Google Chrome
Canary.app/Contents/Info, KSBrandID) does
not exist 2

- continuousScroll is deprecated for

Cluster & Edit column "Column 1"

This feature helps you find groups of different cell values that might be alternative representations of the same thing. For example, the two strings "New York" and "new york" are very likely to refer to the same concept and just have capitalization differences, and "Gödel" and "Godel" probably refer to the same person. [Find out more ...](#)

Method

Distance Function

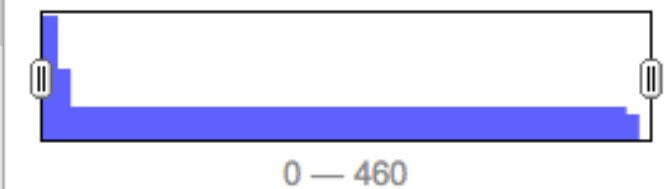
Radius

Block Chars

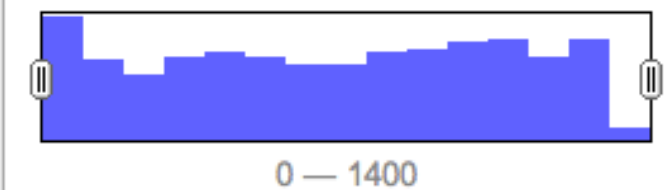
496 clusters found

| Cluster Size | Row Count | Values in Cluster | Merge? | New Cell Value |
|--------------|-----------|---|--------------------------|--|
| 452 | 1383 | <ul style="list-style-type: none"> [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101854670 {NSLocalizedDescription=Socket closed by remote peer} (30 rows) [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x100352a70 {NSLocalizedDescription=Socket closed by remote peer} (27 rows) [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101a3a8b0 {NSLocalizedDescription=Socket closed by remote peer} (25 rows) [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101829d90 {NSLocalizedDescription=Socket closed by remote peer} (24 rows) [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed by remote peer" UserInfo=0x101b08470 {NSLocalizedDescription=Socket closed by remote peer} (23 rows) [HYBI] socketDidDisconnect: Error Domain=GCDAsyncSocketErrorDomain Code=7 "Socket closed | <input type="checkbox"/> | <input type="text" value="[HYBI] socketDidDisconnec"/> |

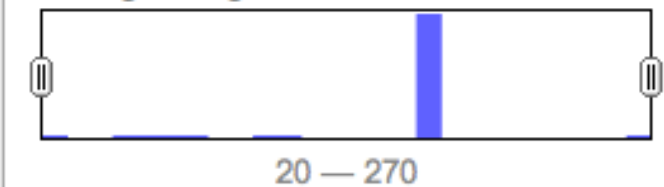
Choices in Cluster



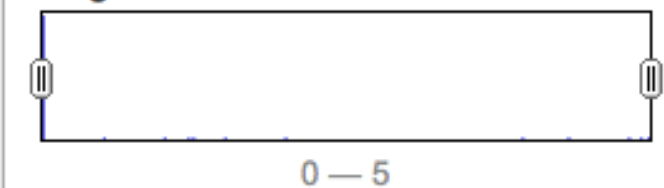
Rows in Cluster



Average Length of Choices



Length Variance of Choices



Select All

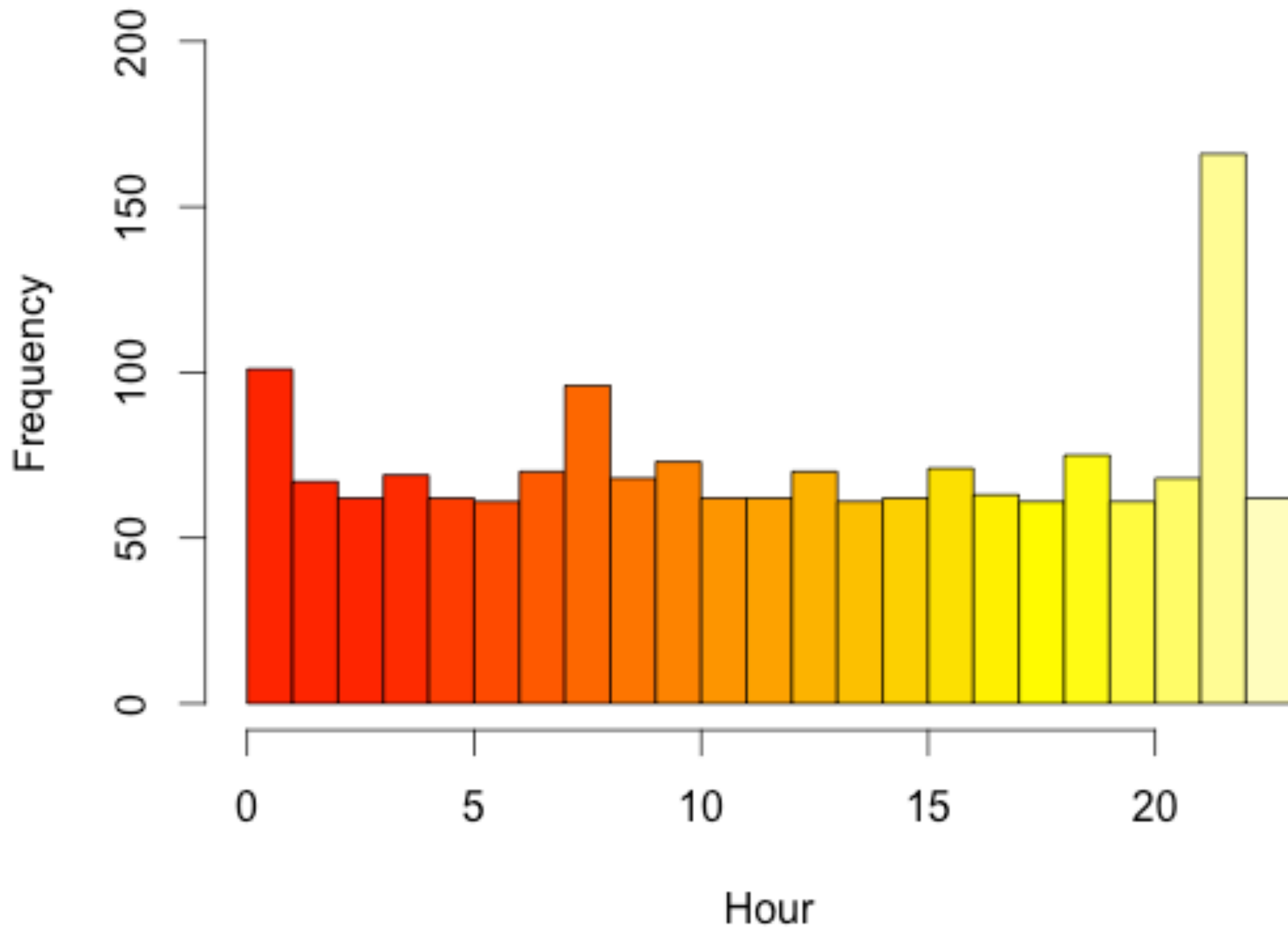
Deselect All

Merge Selected & Re-Cluster

Merge Selected & Close

Close

Histogram



LOGS, DAMN LOGS AND
STATISTICS

THANK YOU!

EDWARD MARCZAK

MARCZAK@RADIOTOPE.COM

@MARCZAK