

& cyber
data

“From bits to information”

Splunk:
Visualisation and
Charting

Outline

- Stats.
- Timeline.
- Chart

Buttercup Games



GET

/oldlink
/category.screen
/cart.do
/product.screen
/show.do
/productscreen.html
/anne_nicole.html
/signals.zip
/numa.html

GET

categoryID={STRATEGY, ARCADE, TEE,
ACCESSORIES, SIMULATION, SHOOTER,
SPORTS}

POST

action={addtocart,
purchase, view, categoryID, productID
remove,
changequantity}

GET

productID={WC-SH-G04,
SC-MG-G10 , DB-SG-G01,
MB-AG-T01, DC-SG-G02, MB-AG-G07,
FS-SG-G03, WC-SH-A02, WC-SH-A01,
WC-SH-T02 , PZ-SG-G05 , FI-AG-G08,
BS-AG-G09 , CU-PG-G06,
SF-BVS-G01}

- **SHOOTER:** WC-SH-G04
- **STRATEGY:** DB-SG-G01, DC-SG-G02, FS-SG-G03 and PZ-SG-G05
- **TEE:** MB-AG-T01 and WC-SH-T02.
- **ARCADE:** MB-AG-G07, FI-AG-G08, and BS-AG-G09.
- **SPORTS:** CU-PG-G06.
- **SIMULATION:** SC-MG-G10.
- **ACCESSORIES:** WC-SH-A01 and AC-SH-A02.

Get

Splunk to Visualisation

```
post status=200 action=purchase
| top categoryId
```

✓ 5,224 events (before 06/09/2020 19:03:57.000) No Event Sampling ▾ Job ▾ || ■ → ☰ ↓

Events Patterns **Statistics (7)** Visualization

20 Per Page ▾ ✎ Format Preview ▾

categoryId ▾ ✎	count ▾ ✎
STRATEGY	806
ARCADE	493
TEE	367
ACCESSORIES	348
SIMULATION	246
SHOOTER	245
SPORTS	138

Get

Aggregation Methods

Aggregation functions

avg(X)
count(X)
dc(X)
estdc(X)
estdc_error(X)
max(X)
mean(X)
median(X)
min(X)
mode(X)
percentile<X>(Y)
range(X)
stdev(X)
stdevp(X)
sum(X)
sumsq(X)
var(X)
varp(X)

Event order functions

first(X)
last(X)

Multivalue stats and chart functions

list(X)
values(X)

Time functions

earliest_time(X)
latest(X)
latest_time(X)
per_day(X)
per_hour(X)
per_minute(X)
per_second(X)
rate(X)
rate_avg(X)
rate_sum(X)

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Splunk: Stats

Splunk Stats

```
sourcetype=access_*  
| stats dc(status), dc(productId), dc(categoryId)
```

All time ▾



✓ 39,532 events (before 06/09/2020 19:32:01.000)

No Event Sampling ▾

Job ▾



Smart Mode ▾

Events

Patterns

Statistics (1)

Visualization

20 Per Page ▾

Format

Preview ▾

dc(status) ▾

9

dc(productId) ▾

16

dc(categoryId) ▾

8

Get

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Splunk Stats

```
sourcetype=access_*  
| stats dc(status) as Status, dc(productId) as "Product ID", dc(categoryId) as "Category ID"
```

All time ▾



✓ 39,532 events (before 06/09/2020 19:34:22.000)

No Event Sampling ▾

Job ▾



Smart Mode ▾

Events

Patterns

Statistics (1)

Visualization

20 Per Page ▾

Format

Preview ▾

Status ▾



9

Product ID ▾



16

Category ID ▾




8

Get

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Splunk Stats

sourcetype=access_* action=purchase
| stats dc(clientip) BY categoryId

All time 

✓ 5,737 events (before 06/09/2020 19:37:09.000) No Event Sampling ▾ Job ▾ || ■ → 🖨️ ↓ ⚙️ Smart Mode ▾

Events Patterns **Statistics (8)** Visualization


20 Per Page ▾ ✎ Format Preview ▾








categoryId ▾ ✎	dc(clientip) ▾ ✎
ACCESSORIES	160
ARCADE	173
NULL	58
SHOOTER	133
SIMULATION	136
SPORTS	97
STRATEGY	181
TEE	156

Get



Splunk Stats



sourcetype=access_*
| stats count(eval(status="404")) AS count_status BY sourcetype

All time 

✓ 39,532 events (before 06/09/2020 19:21:53.000) No Event Sampling       Smart Mode 

Events Patterns **Statistics (1)** Visualization

20 Per Page  Format  Preview

sourcetype 	count_status 
access_combined_wcookie	690

Get


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Splunk: Timeline

Splunk Timeline

sourcetype=access_*
| timechart count(eval(action="purchase")) BY productName

All time 

✓ 39,532 events (before 06/09/2020 19:26:08.000) No Event Sampling Job || ■ → 🖨 ↓ Smart Mode

Events Patterns **Statistics (8)** Visualization

20 Per Page Format Preview

<u>_time</u>	NULL
2014-04-19	157
2014-04-20	783
2014-04-21	903
2014-04-22	829
2014-04-23	781
2014-04-24	793
2014-04-25	797
2014-04-26	694

Get

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Splunk: Charting

Splunk Charting

```
sourcetype=access_* | chart count(eval(method="GET")) as GETFUNCTION
```

✓ 39,532 events (before 06/09/2020 19:16:24.000) No Event Sampling ▼

Events Patterns **Statistics (1)** Visualization

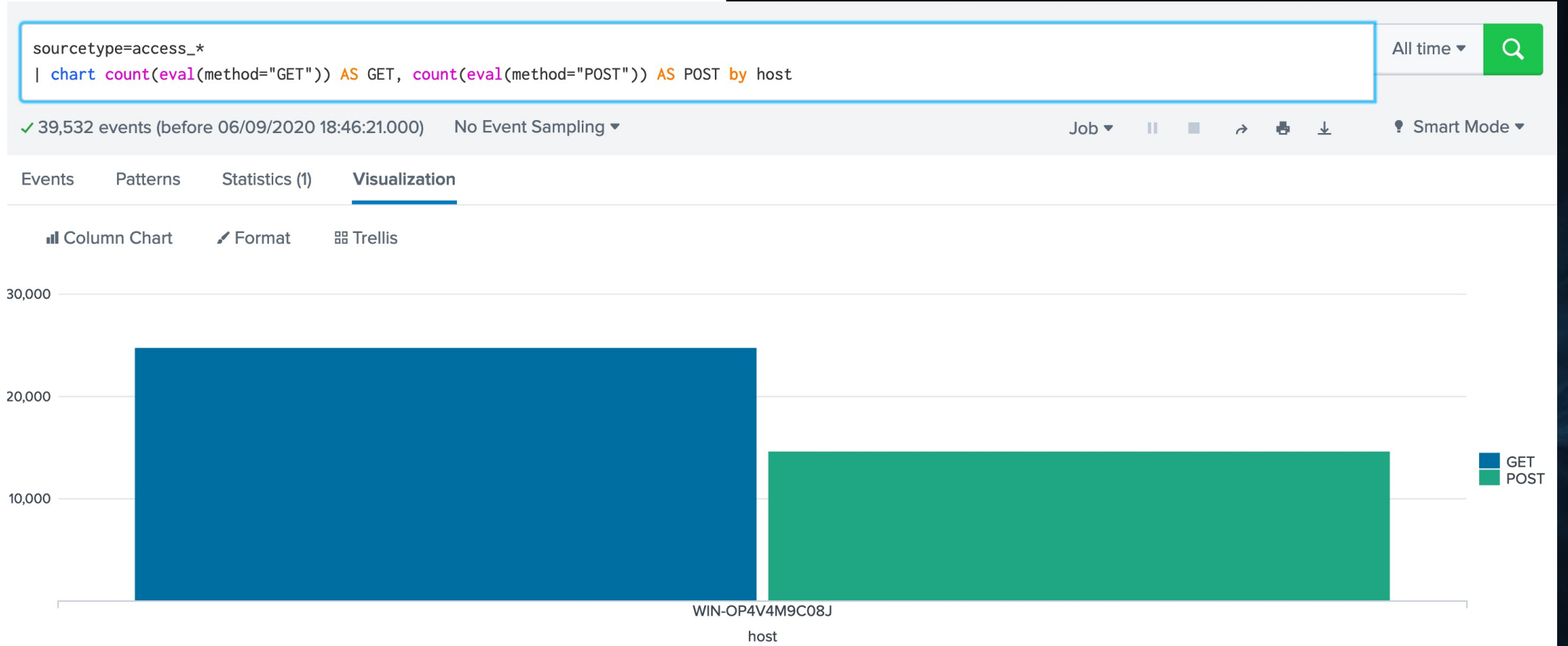
20 Per Page ▼  Format [Preview ▼](#)

GETFUNCTION ⇅

24866

Get


Splunk Charting








Get


Splunk Charting: searchmatch()





sourcetype=access_*
| chart count(eval(searchmatch("Safari"))) AS Safari, count(eval(searchmatch("Chrome"))) AS Chrome, count(eval(searchmatch("Mozilla"))) AS Mozilla by host

All time 

✓ 39,532 events (before 06/09/2020 21:02:21.000) No Event Sampling ▾ Job ▾      Smart Mode ▾

Events Patterns **Statistics (1)** Visualization

20 Per Page ▾  Format Preview ▾

host 	Safari 	Chrome 	Mozilla 
WIN-OP4V4M9C08J	14786	9651	37346

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Visualisation and
Charting