

# Intermediate Searching >

Recall the search pipeline

**Broad search**  
host=myhost  
sourcetype=csv

```
11010101
00001001
11011101
01111010
```

**Keywords/booleans/fields**  
fail OR failure  
locked  
user=b123

```
11010101
00001001
11011101
```

**Commands**  
count  
sum  
eval

```
1101
0101
1111
```

**Table / Viz**  
Table  
timechart

```
1101
0101
```

A lot of data



The data we want  
The format we want

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Let's look at some transforming commands

- top
- rare
- stats



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## Top

- `top <field>`
- Returns the most common values of a given field
- Defaults to 10 fields
- Can be combined with `limit=<number>`
- Automatically builds a table with count and percent columns
- Can be used with multiple fields
  - "return the top value for a field organized by another field"

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| top user

user	count	percent
gholmes0	43	21%
jruiz1	30	15%
hdean	24	12%
pbishop	23	11.5%
lmendez	23	11.5%
kpuroo14	20	1%
dlamd5t	12	0.06%
wgreene87	9	0.04%
jbruss	9	0.04%
anolowitz2	7	0.03%

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## Rare

- `rare <field>`
- Opposite of `top`
- Returns the least common values of a field
- Options are identical to `top`

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## Stats

- `stats <function(field)> BY <field(s)>`
- Some common functions
  - `count, avg, max, mean, median, sum, stdev, values, list`

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```
| stats avg(kbps) BY host
```

Avg(kbps)	host
654.78	host1.domain.com
852.66	host2.domain.com

```
| stats count(failed_logins) BY user
```

Failed_logins	user
42	jwebber
16	asloken3



# Demo: top, rare, & stats



# Thanks, Splunkers!

