# Search Processing Language

A Splunk search is a series of commands and arguments. Commands are chained together with a pipe "|" character to indicate that the output of one command feeds into the next command on the right.

```
search | command1 arguments1 |
command2 arguments2 | ...
```

At the start of the search pipeline, is an implied search command to retrieve events from the index. Search requests are written with keywords, quoted phrases, Boolean expressions, wildcards, field name/value pairs, and comparison expressions. The AND operator is implied between search terms. For example:

```
sourcetype=access_combined error |
top 5 uri
```

This search retrieves indexed web activity events that contain the term "error". For those events, it returns the top 5 most common URI values.

Search commands are used to filter unwanted events, extract more information, calculate values, transform, and statistically analyze the indexed data. Think of the search results retrieved from the index as a dynamically created table. Each indexed event is a row. The field values are columns. Each search command redefines the shape of that table. For example, search commands that filter events will remove rows, search commands that extract fields will add columns.

## Time Modifiers

You can specify a time range to retrieve events inline with your search by using the `latest` and `earliest` search modifiers. The relative times are specified with a string of characters to indicate the amount of time (integer and unit) and an optional "snap to" time unit. The syntax is:

```
[+|-]<integer><unit>@<snap_time_
unit>
```

The search "`error earliest=-1d@d latest=-h@h`" retrieves events containing "error" that occurred yesterday snapping to the beginning of the day (00:00:00) and through to the most recent hour of today, snapping on the hour.

The snap to time unit rounds the time down. For example, if it is 11:59:00 and you snap to hours (@h), the time used is 11:00:00 not 12:00:00. You can also snap to specific days of the week using @w0 for Sunday, @w1 for Monday, and so on.

## Subsearches

A subsearch runs its own search and returns the results to the parent command as the argument value. The subsearch is run first and is contained in square brackets. For example, the following search uses a subsearch to find all syslog events from the user that had the last login error:

```
sourcetype=syslog [ search login
error | return 1 user ]
```

## Optimizing Searches

The key to fast searching is to limit the data that needs to be pulled off disk to an absolute minimum. Then filter that data as early as possible in the search so that processing is done on the minimum data necessary.

Partition data into separate indexes, if you will rarely perform searches across multiple types of data. For example, put web data in one index, and firewall data in another.

Limit the time range to only what is needed. For example `-1h` not `-1w`, or `earliest=-1d`.

Search as specifically as you can. For example, `fatal_error` not `*error*`

Filter out results as soon as possible before calculations. Use field-value pairs, before the first pipe. For example, `>ERROR status=404 |…` instead of `>ERROR | search status=404…` Or use filtering commands such as `where`.

Filter out unnecessary fields as soon as possible in the search.

Postpone commands that process over the entire result set (non-streaming commands) as late as possible in your search. Some of these commands are: `dedup`, `sort`, and `stats`.

Use post-processing searches in dashboards.

Use summary indexing, and report and data model acceleration features.

## Machine Learning Commands

The Machine Learning Toolkit delivers additional SPL commands that you can use to apply machine learning to your data. Find out more in the Machine Learning Quick Reference Guide.

## Common Search Commands

| Command | Description |
|---|---|
| `chart/ timechart` | Returns results in a tabular output for (time-series) charting. |
| `dedup` | Removes subsequent results that match a specified criterion. |
| `eval` | Calculates an expression. See COMMON EVAL FUNCTIONS. |
| `fields` | Removes fields from search results. |
| `head/tail` | Returns the first/last N results. |
| `lookup` | Adds field values from an external source. |
| `rename` | Renames a field. Use wildcards to specify multiple fields. |
| `rex` | Specifies regular expression named groups to extract fields. |
| `search` | Filters results to those that match the search expression. |
| `sort` | Sorts the search results by the specified fields. |
| `stats` | Provides statistics, grouped optionally by fields. See COMMON STATS FUNCTIONS. |
| `mstats` | Similar to stats but used on metrics instead of events. |
| `table` | Specifies fields to keep in the result set. Retains data in tabular format. |
| `top/rare` | Displays the most/least common values of a field. |
| `transaction` | Groups search results into transactions. |
| `where` | Filters search results using eval expressions. Used to compare two different fields. |

splunk>

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# Splunk User Guide

Srikanth Yarlagadda

## Splunk User Guide:

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