

# Commands by category

<http://docs.splunk.com/Documentation/Splunk/latest/SearchReference/Commandsbycategory>

The following tables list all the search commands, categorized by their usage. Some commands fit into more than one category based on the options that you specify.

## Correlation

These commands can be used to build correlation searches.

Command	Description
<a href="#">append</a>	Appends subsearch results to current results.
<a href="#">appendcols</a>	Appends the fields of the subsearch results to current results, first results to first result, second to second, etc.
<a href="#">appendpipe</a>	Appends the result of the subpipeline applied to the current result set to results.
<a href="#">arules</a>	Finds association rules between field values.
<a href="#">associate</a>	Identifies correlations between fields.
<a href="#">contingency</a> , <a href="#">counttable</a> , <a href="#">ctable</a>	Builds a contingency table for two fields.
<a href="#">correlate</a>	Calculates the correlation between different fields.
<a href="#">diff</a>	Returns the difference between two search results.
<a href="#">join</a>	Combines the of results from the main results pipeline with the results from a subsearch.

<a href="#">lookup</a>	Explicitly invokes field value lookups.
<a href="#">selfjoin</a>	Joins results with itself.
<a href="#">set</a>	Performs set operations (union, diff, intersect) on subsearches.
<a href="#">stats</a>	Provides statistics, grouped optionally by fields. See <a href="#">Statistical and charting functions</a> .
<a href="#">transaction</a>	Groups search results into transactions.

## Data and indexes

These commands can be used to learn more about your data, add and delete data sources, or manage the data in your summary indexes.

### View data

These commands return information about the data you have in your indexes. They do not modify your data or indexes in any way.

Command	Description
<a href="#">audit</a>	Returns audit trail information that is stored in the local audit index.
<a href="#">datamodel</a>	Return information about a data model or data model object.
<a href="#">dbinspect</a>	Returns information about the specified index.
<a href="#">eventcount</a>	Returns the number of events in an index.

<a href="#">metadata</a>	Returns a list of source, sourcetypes, or hosts from a specified index or distributed search peer.
<a href="#">typeahead</a>	Returns typeahead information on a specified prefix.

## Manage data

These are some commands you can use to add data sources to or delete specific data from your indexes.

Command	Description
<a href="#">crawl</a>	Crawls the filesystem for new sources to add to an index.
<a href="#">delete</a>	Delete specific events or search results.
<a href="#">input</a>	Add or disable sources.

## Manage summary indexes

These commands are used to create and manage your summary indexes.

Command	Description
<a href="#">collect, stash</a>	Puts search results into a summary index.
<a href="#">overlap</a>	Finds events in a summary index that overlap in time or have missed events.
<a href="#">sichart</a>	Summary indexing version of chart. Computes the necessary information for you to later run a chart search on the summary index.

<a href="#">sirare</a>	Summary indexing version of rare. Computes the necessary information for you to later run a rare search on the summary index.
<a href="#">sistats</a>	Summary indexing version of stats. Computes the necessary information for you to later run a stats search on the summary index.
<a href="#">sitimechart</a>	Summary indexing version of timechart. Computes the necessary information for you to later run a timechart search on the summary index.
<a href="#">sitop</a>	Summary indexing version of top. Computes the necessary information for you to later run a top search on the summary index.

## Fields

These are commands you can use to add, extract, and modify fields or field values. The most useful command for manipulating fields is [eval](#) and its [statistical and charting functions](#).

### Add fields

Use these commands to add new fields.

Command	Description
<a href="#">accum</a>	Keeps a running total of the specified numeric field.
<a href="#">addinfo</a>	Add fields that contain common information about the current search.
<a href="#">addtotals</a>	Computes the sum of all numeric fields for each result.
<a href="#">delta</a>	Computes the difference in field value between nearby results.
<a href="#">eval</a>	Calculates an expression and puts the value into a field. See also, <a href="#">evaluation functions</a> .

<a href="#">iplocation</a>	Adds location information, such as city, country, latitude, longitude, and so on, based on IP addresses.
<a href="#">lookup</a>	For configured lookup tables, explicitly invokes the field value lookup and adds fields from the lookup table to the events.
<a href="#">multikv</a>	Extracts field-values from table-formatted events.
<a href="#">rangemap</a>	Sets RANGE field to the name of the ranges that match.
<a href="#">relevancy</a>	Adds a relevancy field, which indicates how well the event matches the query.
<a href="#">strcat</a>	Concatenates string values and saves the result to a specified field.

## Extract fields

These commands provide different ways to extract new fields from search results.

Command	Description
<a href="#">erex</a>	Allows you to specify example or counter example values to automatically extract fields that have similar values.
<a href="#">extract,</a> <a href="#">kv</a>	Extracts field-value pairs from search results.
<a href="#">kvform</a>	Extracts values from search results, using a form template.
<a href="#">rex</a>	Specify a Perl regular expression named groups to extract fields while you search.
<a href="#">spath</a>	Provides a straightforward means for extracting fields from structured data formats, XML and

	JSON.
<a href="#">xmlkv</a>	Extracts XML key-value pairs.

## Modify fields and field values

Use these commands to modify fields or their values.

Command	Description
<a href="#">convert</a>	Converts field values into numerical values.
<a href="#">filldown</a>	Replaces NULL values with the last non-NULL value.
<a href="#">fillnull</a>	Replaces null values with a specified value.
<a href="#">makemv</a>	Change a specified field into a multivalue field during a search.
<a href="#">nomv</a>	Changes a specified multivalue field into a single-value field at search time.
<a href="#">reftime</a>	Converts the difference between 'now' and '_time' to a human-readable value and adds this value to the field, 'reftime', in your search results.
<a href="#">rename</a>	Renames a specified field. Use wildcards to specify multiple fields.
<a href="#">replace</a>	Replaces values of specified fields with a specified new value.

## Find anomalies

These commands are used to find anomalies in your data. Either search for uncommon or outlying events and fields or cluster similar events together.

Command	Description
<a href="#">analyzefields, af</a>	Analyze numerical fields for their ability to predict another discrete field.
<a href="#">anomalies</a>	Computes an "unexpectedness" score for an event.
<a href="#">anomalousvalue</a>	Finds and summarizes irregular, or uncommon, search results.
<a href="#">anomalydetection</a>	Identifies anomalous events by computing a probability for each event and then detecting unusually small probabilities.
<a href="#">cluster</a>	Clusters similar events together.
<a href="#">kmeans</a>	Performs k-means clustering on selected fields.
<a href="#">outlier</a>	Removes outlying numerical values.
<a href="#">rare</a>	Displays the least common values of a field.

## Geographic and location

These commands add geographical information to your search results.

Command	Description
<a href="#">iplocation</a>	Returns location information, such as city, country, latitude, longitude, and so on, based on IP addresses.
<a href="#">geom</a>	Adds a field, named "geom", to each event. This field contains geographic data structures for polygon geometry in JSON and is used for choropleth map visualization. This command requires an external lookup

	with <code>external_type=geo</code> to be installed.
<a href="#">geomfilter</a>	Accepts two points that specify a bounding box for clipping choropleth maps. Points that fall outside of the bounding box are filtered out.
<a href="#">geostats</a>	Generate statistics which are clustered into geographical bins to be rendered on a world map.

## Prediction and trending

These commands predict future values and calculate trendlines that can be used to create visualizations.

Command	Description
<a href="#">predict</a>	Enables you to use time series algorithms to predict future values of fields.
<a href="#">trendline</a>	Computes moving averages of fields.
<a href="#">x11</a>	Enables you to determine the trend in your data by removing the seasonal pattern.

## Reports

These commands are used to build [transforming searches](#). These commands return statistical data tables that are required for charts and other kinds of data visualizations.

Command	Description
<a href="#">addtotals</a>	Computes the sum of all numeric fields for each result.



<a href="#">autoregress</a>	Prepares your events for calculating the autoregression, or moving average, based on a field that you specify.
<a href="#">bin, discretize</a>	Puts continuous numerical values into discrete sets.
<a href="#">chart</a>	Returns results in a tabular output for charting. See also, <a href="#">Statistical and charting functions</a> .
<a href="#">contingency, counttable, ctable</a>	Builds a contingency table for two fields.
<a href="#">correlate</a>	Calculates the correlation between different fields.
<a href="#">eventcount</a>	Returns the number of events in an index.
<a href="#">eventstats</a>	Adds summary statistics to all search results.
<a href="#">gauge</a>	Transforms results into a format suitable for display by the Gauge chart types.
<a href="#">makecontinuous</a>	Makes a field that is supposed to be the x-axis continuous (invoked by chart/timechart)
<a href="#">outlier</a>	Removes outlying numerical values.
<a href="#">rare</a>	Displays the least common values of a field.
<a href="#">stats</a>	Provides statistics, grouped optionally by fields. See also, <a href="#">Statistical and charting functions</a> .
<a href="#">streamstats</a>	Adds summary statistics to all search results in a streaming manner.

<a href="#">timechart</a>	Create a time series chart and corresponding table of statistics. See also, <a href="#">Statistical and charting functions</a> .
<a href="#">top</a>	Displays the most common values of a field.
<a href="#">trendline</a>	Computes moving averages of fields.
<a href="#">untable</a>	Converts results from a tabular format to a format similar to <code>stats</code> output. Inverse of <code>xyseries</code> and <code>maketable</code> .
<a href="#">xyseries</a>	Converts results into a format suitable for graphing.

## Results

These commands can be used to manage search results. For example, you can append one set of results with another, filter more events from the results, reformat the results, and so on.

## Alerting

Use this command to email the results of a search.

Command	Description
<a href="#">sendemail</a>	Emails search results, either inline or as an attachment, to one or more specified email addresses.

## Appending

Use these commands to append one set of results with another set or to itself.

Command	Description
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<a href="#">append</a>	Appends subsearch results to current results.
<a href="#">appendcols</a>	Appends the fields of the subsearch results to current results, first results to first result, second to second, and so on.
<a href="#">join</a>	SQL-like joining of results from the main results pipeline with the results from the subpipeline.
<a href="#">selfjoin</a>	Joins results with itself.

## Filtering

Use these commands to remove more events or fields from your current results.

Command	Description
<a href="#">dedup</a>	Removes subsequent results that match a specified criteria.
<a href="#">fields</a>	Removes fields from search results.
<a href="#">mvcombine</a>	Combines events in search results that have a single differing field value into one result with a multivalue field of the differing field.
<a href="#">regex</a>	Removes results that do not match the specified regular expression.
<a href="#">searchtxn</a>	Finds transaction events within specified search constraints.
<a href="#">table</a>	Creates a table using the specified fields.
<a href="#">uniq</a>	Removes any search that is an exact duplicate with a previous result.

<a href="#">where</a>	Performs arbitrary filtering on your data. See also, <a href="#">Evaluation functions</a> .
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## Formatting

Use these commands to reformat your current results.

Command	Description
<a href="#">untable</a>	Converts results from a tabular format to a format similar to <a href="#">stats</a> output. Inverse of <a href="#">xyseries</a> and <a href="#">maketable</a> .
<a href="#">xyseries</a>	Converts results into a format suitable for graphing.

## Generating

Use these commands to generate or return events.

Command	Description
<a href="#">gentimes</a>	Returns results that match a time-range.
<a href="#">loadjob</a>	Loads events or results of a previously completed search job.
<a href="#">makeresults</a>	Creates a specified number of empty search results.
<a href="#">mvexpand</a>	Expands the values of a multivalue field into separate events for each value of the multivalue field.
<a href="#">savedsearch</a>	Returns the search results of a saved search.
<a href="#">search</a>	Searches indexes for matching events. This command is implicit at the start of

	every search pipeline that does not begin with another generating command.
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## Grouping

Use these commands to group or classify the current results.

Command	Description
<a href="#">cluster</a>	Clusters similar events together.
<a href="#">kmeans</a>	Performs k-means clustering on selected fields.
<a href="#">mvexpand</a>	Expands the values of a multivalue field into separate events for each value of the multivalue field.
<a href="#">transaction</a>	Groups search results into transactions.
<a href="#">typelearner</a>	Generates suggested eventtypes.
<a href="#">typer</a>	Calculates the eventtypes for the search results.

## Reordering

Use these commands to change the order of the current search results.

Command	Description
<a href="#">head</a>	Returns the first number n of specified results.
<a href="#">reverse</a>	Reverses the order of the results.

<a href="#">sort</a>	Sorts search results by the specified fields.
<a href="#">tail</a>	Returns the last number N of specified results

## Reading

Use these commands to read in results from external files or previous searches.

Command	Description
<a href="#">inputcsv</a>	Loads search results from the specified CSV file.
<a href="#">inputlookup</a>	Loads search results from a specified static lookup table.
<a href="#">loadjob</a>	Loads events or results of a previously completed search job.

## Writing

Use these commands to define how to output current search results.

Command	Description
<a href="#">outputcsv</a>	Outputs search results to a specified CSV file.
<a href="#">outputlookup</a>	Writes search results to the specified static lookup table.
<a href="#">outputtext</a>	Outputs the raw text field ( <code>_raw</code> ) of results into the <code>_xml</code> field.
<a href="#">sendemail</a>	Emails search results, either inline or as an attachment, to one or more specified email addresses.

# Search

Command	Description
<a href="#">map</a>	A looping operator, performs a search over each search result.
<a href="#">search</a>	Searches indexes for matching events. This command is implicit at the start of every search pipeline that does not begin with another generating command.
<a href="#">sendemail</a>	Emails search results, either inline or as an attachment, to one or more specified email addresses.
<a href="#">localop</a>	Run subsequent commands, that is all commands following this, locally and not on a remote peer.

# Subsearch

These are commands that you can use with [subsearches](#).

Command	Description
<a href="#">append</a>	Appends subsearch results to current results.
<a href="#">appendcols</a>	Appends the fields of the subsearch results to current results, first results to first result, second to second, and so on.
<a href="#">appendpipe</a>	Appends the result of the subpipeline applied to the current result set to results.
<a href="#">format</a>	Takes the results of a subsearch and formats them into a single result.
<a href="#">join</a>	Combine the results of a subsearch with the results of a main search.

<a href="#">return</a>	Specify the values to return from a subsearch.
<a href="#">set</a>	Performs set operations (union, diff, intersect) on subsearches.

## Time

Use these commands to search based on time ranges or add time information to your events.

Command	Description
<a href="#">gentimes</a>	Returns results that match a time-range.
<a href="#">localize</a>	Returns a list of the time ranges in which the search results were found.
<a href="#">reltime</a>	Converts the difference between 'now' and '_time' to a human-readable value and adds adds this value to the field, 'reltime', in your search results.