Command Line Usage

Load a kst file:

```
kst [OPTIONS] kstfile
```

[OPTIONS] will override the datasource parameters for all data sources in the kst file:

```
-F  <datasource>
-f  <startframe>
-n  <numframes>
-s  <frames per sample>
-a                              (apply averaging filter: requires -s)
```

Read a data file:

```
kst datasource OPTIONS [datasource OPTIONS []]
```

OPTIONS are read and interpreted in order. Except for data object options, all are applied to all future data objects, unless later overridden.

File Options:

```
-f <startframe>          number, or "end" counts from end.
-n <numframes>           number, or "end" reads to end of file
```
The default is to start from zero, and count to end.
If only -n is declared, count from end.
```
-s <frames per sample>   default: 0 (read every sample)
-a                       apply averaging filter: requires -s
```

Position:

```
-P <plot name>:          Place curves in one plot.
-A                       Place future curves in individual plots.
```

Appearance

```
-d:                      use points
-l:                      use lines (default)
-b:                      use bargraph
```

Data Object Modifiers

```
-x <field>:              X axis vector (curves).  Default INDEX
-e <field>:              Y error flags (curves).  Default none.
-r <rate>:               sample rate (spectra & spectograms).
```

Data Objects:

```
-y <field>               plot an XY curve of field.
-p <field>               plot the spectrum of field.
```

```
       -h <field>                      plot a histogram of field.
       -z <field>                      plot an image of matrix field.
```

Examples:

Data sources and fields

Plot all data in column 2 from data.dat.
```
       kst data.dat -y 2
```

Same as above, except only read 20 lines, starting at line 10.
```
       kst data.dat -f 10 -n 20 -y 2
```

...also read col 1. One plot per curve.
```
       kst data.dat -f 10 -n 20 -y 1 -y 2
```

...read col 1 from data2.dat and col 1 from data.dat
```
       kst data.dat -f 10 -n 20 -y 2 data2.dat -y 1
```

...same as above, except read 40 lines starting at 30 in data2.dat
```
       kst data.dat -f 10 -n 20 -y 2 data2.dat -f 30 -n 40 -y 1
```

Specify the X vector and error bars.

Plot x = col 1 and Y = col 2 and error flags = col 3 from data.dat
```
       kst data.dat -x 1 -e 3 -y 2
```

Get the X vector from data1.dat, and the Y vector from data2.dat.
```
       kst data1.dat -x 1 data2.dat -y 1
```

Placement:

Plot column 2 and column 3 in plot P1 and column 4 in plot P2
```
       kst data.dat -P P1 -y 2 -y 3 -P P2 -y 4
```