NAME

votget – Download URLs or access references in a VOTable

SYNOPSIS

votget [*<opts>*] [<votable.xml> | <listfile>]
votget [*<opts>*] –-samp   # to listen for SAMP messages

OPTIONS

The *votget* task accepts the following options:

–h, --help

Print a help summary to the terminal and exit. No processing is done following this flag.

-b *BASE,***--base** *BASE*

Base output filename. The *BASE* name will be appended with a running (leading zero, 4-digit) number for each downloaded file.

-e [*EXTN*]**,--extn** [*EXTN*]

Extension to add to each filename. If no *EXTN* is provided, a guess of the file type will be made an an appropriate extension chosen automatically.

-f,--fmt *FILE_TYPE*

Download only file of the specified *TYPE*. The *TYPE* value is used in a substring match of the image format column value. The format column uses a well-known UCD or may be specified using the *-u* or *-F* flags.

-s,--sum

Use the 32-bit file checksum numbers when appending to the *BASE* filename. By default, a sequential file number is used.

-t,--tmp

Input file is temporary, delete it when done.

-u *UCD,***--ucd** *UCD*

Use ucd to identify access reference column. The VOTable *<FIELD>* containing the *ucd=UCD* attribute will identify the access reference column used when matching the *TYPE* value.

-o *NAME,***--output** *NAME*

Output filename (single download only). This option may be used to specify the name of the downloaded file in cases where only a single file is requested.

-v,--verbose

Verbose output.

-x,--extract

Extract access references only. Files are not downloaded, the access reference URLs are written to the output file or stderr stream if no *-o* output file is given.

-A *COLUMN,***--acref** *COLNUM*

Column number (0-indexed) for access reference column.

-B,--bkg

Background the download, i.e. run in a forked child process.

-C,--cache

Cache the downloaded file

-D *DIR*,**--download** *dir*

>   Specify download directory, i.e. download files to the *DIR* directory and not the current working directory.

-F,--fmtcol <colnum

>   Column number (0-indexed) for image format column. This column value will be used to match the *TYPE* value given to the *-f* option.

-N *NUM*,**--num** *NUM*

>   Number of simultaneous downloads to process. In cases where multiple files are requested, the task will create *NUM* separate threads to multiplex the downloads for greater efficiency.

-S,--samp

>   Start as SAMP listener. If enabled, the task will simply listen for SAMP messages containing a 'table.load.votable' message type and will process the requested file automatically. This allows the task to act as a download client for other applications.

DESCRIPTION

>   The *votget* task can be used to download remote files to the local machine. If given a filename argument on the command-line, the file may be either a plain-text file containing a list of URLs (one per line), or a VOTable (e.g. such as one returned from an SIA or SSA service) containing *'acess references'* to data. If no filename is given on the command-line and the *-S* flag is used, the task will start as a listener for SAMP messages containing a 'table.load.votable' request and will process those VOTable files as they arrive.

>   When processing VOTables, the *-A* and *-F* flags can be used to specify the access reference and image format columns as 0-indexed column numbers, or the *-u* and *-f* options can be used to specify the access reference UCD and format string respectively. By default, all access references will be downloaded, if a format parameter is used then only images of that type will be downloaded. If the *-x* option is enabled, the access references will be extracted from the VOTable and the URL written to the output rather than downloading the referenced file.

>   If the *-b* option is set the argument should be a base name for the downloaded files. This name will be appended with a sequential 4-digit number to make the filenames unique, unless the *-s* option is set to indicate the 32-bit file checksum should be used instead. An optional filename extension (e.g. "fits") can be added to these names by specifying the *-e* option to given the extension string. If none of these options are given, a best-guess of the filename will be made based on the URL.

>   *VOGET* will attempt to download multiple files simultaneously, the number of download threads may be set using the *-N* option. By setting the *-B* option, downloads will proceed in a background child process allowing control to be returned to the calling shell quickly.

>   If no input file is specified the VOTable will be read from the stdin, results will be written to stdout unless the *−o* (or *−-output*) names an output file. The task will only process a single VOTable and may not be used to convert multiple files in a single call.

RETURN STATUS

>   *votget* will return a zero for a successful exit, one otherwise.

EXAMPLES

>   1)   Download all files in the VOTable 'results.xml', 3 files at a time:
>
>>   % votget -N 3 results.xml
>
>   2)   Start as a SAMP listener waiting for VOTable events to be broadcast, saved files will begin with the string 'foo' and contain a 'fits' filename extension:
>
>>   % votget -b foo -e fits -S

To exit the task, hit the <CR>.

3)   Download all the urls in the file 'urls.txt':

% votget -b foo urls.txt

4)   Extract all the access references in a VOTable:

% votget -x results.xml

BUGS

No known bugs with this release.

Revision History

Feb 2013 - First public release

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SEE ALSO

votcnv, votinfo, votpos, votsort, votstat