

Progress meter

curl has a built-in progress meter. When curl is invoked to transfer data (either uploading or downloading) it can show that meter in the terminal screen to show how the transfer is progressing, namely the current transfer speed, how long it has been going on and how long it thinks it might be left until completion.

The progress meter is inhibited if curl deems that there is output going to the terminal, as the progress meter would interfere with that output and just mess up what gets displayed. A user can also forcibly switch off the progress meter with the `-s / --silent` option, which tells curl to hush.

If you invoke curl and do not get the progress meter, make sure your output is directed somewhere other than the terminal.

curl also features an alternative and simpler progress meter that you enable with `-# / --progress-bar`. As the long name implies, it instead shows the transfer as progress bar.

At times when curl is asked to transfer data, it cannot figure out the total size of the requested operation and that then

subsequently makes the progress meter contain fewer details and it cannot, for example, make forecasts for transfer times, etc.

Units

The progress meter displays bytes and bytes per second.

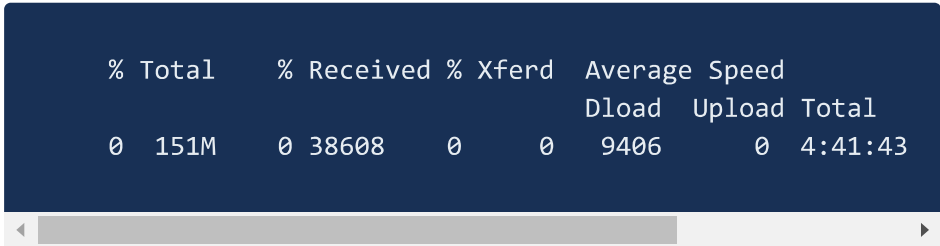
It will also use suffixes for larger amounts of bytes, using the 1024 base system so 1024 is one kilobyte (1K), 2048 is 2K, etc. curl supports these:

Suffix	Amount	Name
K	2^{10}	kilobyte
M	2^{20}	megabyte
G	2^{30}	gigabyte
T	2^{40}	terabyte
P	2^{50}	petabyte

The times are displayed using H:MM:SS for hours, minutes and seconds.

Progress meter legend

The progress meter exists to show a user that something actually is happening. The different fields in the output have the following meaning:



From left to right:

Title	Meaning
%	Percentage completed of the whole transfer
Total	Total size of the whole expected transfer (if known)
%	Percentage completed of the download
Received	Currently downloaded number of bytes
%	Percentage completed of the upload
Xferd	Currently uploaded number of bytes

Average Speed Dload	Average transfer speed of the entire download so far, in number of bytes per second
Average Speed Upload	Average transfer speed of the entire upload so far, in number of bytes per second
Time Total	Expected time to complete the operation, in HH:MM:SS notation for hours, minutes and seconds
Time Current	Time passed since the start of the transfer, in HH:MM:SS notation for hours, minutes and seconds
Time Left	Expected time left to completion, in HH:MM:SS notation for hours, minutes and seconds
Curr.Speed	Average transfer speed over the last 5 seconds (the first 5 seconds of a transfer is based on less time, of course) in number of bytes per second