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| TEA PRIMITIVE | SEMANTICS |
| K: | |  |  | | --- | --- | | NAME | Keep | | PURPOSE | Conditionally filter out the contents of AI | | SYNTAX  & SEMANTICS | |  | | --- | | k: | | INERT | | k:REGEX | | Only keep lines in AI that match REGEX | | k!: | | INERT | | k!: REGEX | | Only keep lines in AI that DON’T match REGEX | | k\*: | | INERT | | k\*:vNAME:REGEX  k\*!:vNAME:REGEX | | The vault operating versions of k: and k!: perform corresponding transformations, but instead operate on the data stored in the vault with the specified vault name, vNAME. | |  | | NOTES | K: is for determining what to keep in the Active Input. It is only active when used together with a useful filter---such as in the following example, where we filter and keep only the lines in a multi-line poem that contain the words “I” or “O”;  I!:{Myself should tell  You O my Lord.  I trust You Know Me.} | k:.\*\w?[IO]\w?.\*  Shall return  “You O my Lord.  I trust You Know Me.”  Note that while k: processes AI by splitting it up into lines first, yet, it preserves the original lines by gluing the results back using a single New Line Character (sometimes with a Carriage Return on some systems such as Windows).  In terms of TEA utilities for throwing things out of strings, the Keep command mostly helps with filter processing at the line level. For filtering at character or word level, perhaps d: and its inverse d!: are better. |  | |