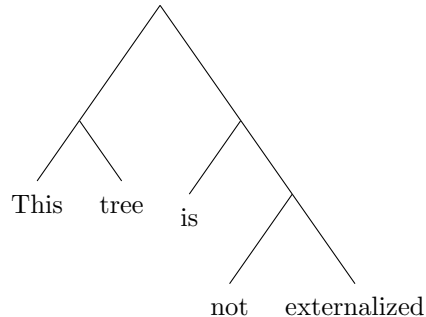First of all, \memoizeset{disable} disables all memoization (for the local TEX group). And \memoizeset{enable} brings it back. There are also short forms \memoizedisable and \memoizeenable.

This   tree   is

not   externalized

We have three keys:

- enable: The given environment or command will be automatically memoized.

- prevent: Within the given environment or command, memoization is switched off.

- disable: Disable the effect of enable or prevent for the given environment or command.

Externalized TikZ picture can be given either in the tikzpicture environment or by the \tikz.

externalized   externalized   But I'm prevented from being externalized, even if I use TikZ behind the scenes!

But now we said disable=\tikz, so the command is not externalized any more.

externalized   not externalized

By the way, do you know that the pictures on the left above share the same memo? The same code, the same memo ... 01B9F3FF1943DC0B0A1B62261CE9CD5E.memo.pdf

An externalized minipage: A suggestion for an easy control over whether a TikZ picture gets externalized or not: if you say \memoizeset{disable=\tikz}, tikzpicture environments get externalized, but \tikz commands don't. Easy and logical: environments are for the big stuff, commands for little jobs.