The folder “Analysis” contains files for analyses reported in the main manuscript as well as supplementary material:

* “analysis\_GLMs.sps” contains the SPSS syntax for running the repeated measures ANOVAs reported in the manuscript and for averaging predictor weights across working memory task conditions (creating variables for load × time and delay × time analyses).
* “predictorweights\_TGT-WM.xlsx” contains the predictor weights obtained from the multi-experiment fMRI-CPCA performed on the combined TGT and WM task data.
* “predictorweights\_WMonly.xlsx” contains the predictor weights obtained from the single-experiment fMRI-CPCA performed on the WM task data only.
* “supplementary/supplementary-analysis\_WMperformance\_HDRmeasures.sps” contains the SPSS syntax for computing increase-to-peak and decrease-to-baseline HDR measures for components 1-4 for the WM task, computing WM performance measures (% correct for each delay condition), and performing 2-tailed correlations between HDR measures and WM task performance for each delay condition.
* “supplementary/supplementary\_WMperformance\_HDRmeasures.xlsx” contains the task performance data and computed HDR measures.

The folder “Component images” contains the 3D neuroimaging files (HDR/IMG pairs) for each component obtained from the fMRI-CPCAs:

* “TGT-WM\_components.zip” contains the 7 components extracted from the multi-experiment fMRI-CPCA performed on the combined TGT and WM task data.
* “WMonly\_components.zip” contains the 3 components extracted from the single-experiment fMRI-CPCA performed on the WM task data only.
* Components may be visualized by overlaying the image files on an anatomical template (e.g., the ch2 template in MRIcron) and setting user-defined thresholds for the loadings. The published figures display the most extreme 10%, with threshold values indicated in figure captions.

The folder “Presentation code” contains the scripts (and stimuli) for running the tasks in Presentation software:

* “TGTtask\_Presentation\_stimuli.zip” contains the Presentation code for the TGT task. The sub-folder “stimuli” contains the visual stimuli and the corresponding sound files for trials (when presented in the “hearing” condition).
* “WMtask\_Presentation.zip” contains the Presentation code for the WM task. The stimuli for this task were generated by the script on each task run.