Step 4: Designing the model

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This folder is meant to reproduce our activity contributions to expert competencies computed as part of the 4th step in our pipeline.

This includes reproducing:

- The contributions of the 44 preparatory activities to the 6 expert-identified competencies from Table S7 in the Appendix.

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Examine Results as Computed by Us

You can inspect the following results as computed/created by us:

- The contributions of the 44 preparatory activities to the 6 expert-identified competencies: "activity_contribution_expert_competencies_raw.csv."

Reproduce Analyses Yourself

You can also reproduce the way we obtained our activity contributions by running the file "activity_contribution_expert_competencies.py." This requires the python packages `numpy` and `pandas`.

To recreate the files that this computation is built on (i.e., the two files in the "Data"-folder), navigate to the folder "Step_2_Obtaining_Views" and follow the instructions for reproducing our analysis for our repertory grid study with experts from the README-file therein.

Files and Folders

This folder contains the following folders and files:

- Data:
  - comp_3factors_df_loadings_experts.csv: weights for the factors describing the expert competencies from the repertory grid study with experts.
  - comp_3factors_df_ratings_experts.csv: ratings for the activities by the experts from the repertory grid study with experts.
- activity_contribution_expert_competencies.py: code to reproduce our computation of the contributions of the 44 preparatory activities to the 6 expert competencies.
- activity_contribution_expert_competencies_raw.csv: computed contributions of the 44 preparatory activities to the 6 expert competencies.
- README.md/README.pdf: this README-file.