

## Kinds of model documentation

- **Formulation:** Describes the theory that constitutes the model.
  - What is encoded in the model?
  - How is this derived from a more general theory?
  - Equations and discretization methods
- **Implementation:** Describes the practical realization of the model
  - Model components and the related programming units: modules and routines, input and output variables, configuration parameters
  - Flow chart / calling graph
  - External data: if needed, units, formatting, where are the files
- **Performance:** How well does the model work
  - Biases and scores for specific experiments, in comparison to theoretical solutions, observations, analyses, or other models.
  - Numerical performance for specific experiments and technical setups.
- **User manual:** From the code to the experiments
  - Where to find the model code and scripts
  - How to compile the model on the main machines at DKRZ
  - How to make experiments
- **Tutorials:** Documentation made for training courses
  - Details depend on the goal of the course
  - For getting started on the base of selected experiments
  - Typically includes aspects of formulation, implementation and user manual

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