Learning procedure or not

- o PDP: a general learning algorithm (retropropagation of error)
- o CDP+: a learning algorithm for the non-lexical route (delta learning rule)
- DRC: no learning, fixed conversion rules, models critical values are entered manually in the model by researchers based on external statistics

Having a learning algorithm potentially allows:

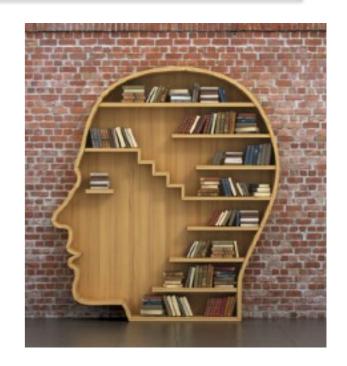
- to simulate reading development
- to simulate frequency trajectory effects
- to have a independent explanation for some effect

Opposite visions of modelling

PDP > Theory building

using plausible processing given what we know about neural networks and learning

models are tools



DRC and CDP+ > **Data fitting**

models are the aim of the research, fitting the data is more important than a detailed explanation of underlying mechanisms

Danger of overfitting the data

Which new hypotheses can emerge?

Explanatory adequacy vs. Descriptive adequacy