

Learning procedure or not

- PDP : a general learning algorithm
(retropropagation of error)
- 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