

Block Practical: Connectionist models and cognitive processes

Part 5: **Writing the Report**

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Overview

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- ▶ Use your answers to the questions from last week to guide you

Sections of Report

1. Introduction

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2. Methods

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3. Results

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4. Discussion

Introduction

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- ▶ What is the goal of the current model?

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- ▶ Explain: theory, what cognitive process/system you plan to model, the high-level architecture of model
- ▶ Why does modelling help us?
- ▶ What is the goal of the current model?
- ▶ What part of cognition are we modelling and why did we chose this way?

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- ▶ Did you try lots of settings? Document all of them.

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- ▶ What kind of training algorithm? What training patterns?
- ▶ Did you try lots of settings? Document all of them.
- ▶ Are certain values of the parameters essential? Can we abstract over ranges of values?
- ▶ When did you chose to stop training? What was the range of the weights when you did? What was the error when you did?

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- ▶ How are you choosing to evaluate your model's output?
- ▶ Are you looking at the hidden layer or the output layer, the sum squared error, something else?
- ▶ Show all the evidence needed to help the reader understand your results.

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- ▶ How does your work fit into the broader picture of model and theory?
- ▶ Justify what's wrong if there is something wrong with implementation or with model or even with theory
- ▶ Is the original paper a good model?
- ▶ Is your replication a good model and a good implementation?

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- ▶ Do you understand the original work more?
- ▶ Discuss the original work and how modelling it yourself (i.e., replicating) helped.
- ▶ Why is replication useful?
- ▶ Are there any experiments you would propose to carry out now you know more?