

Summary of *A tutorial on the free-energy framework for modelling perception and learning* by Rafal Bogacz

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# Introduction

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- └ Introduction
- └ Introduction



## Exact solution of the inference problem

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- Single variable model

- Exact solution of the inference problem

# Approximated solution of the inference problem



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└ Single variable model

└ Approximated solution of the inference problem



Neural implementation

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  - └ Single variable model
    - └ Neural implementation

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- └ Single variable model

- └ Neural implementation

## Learning model parameters

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- Single variable model

- Learning model parameters

## Learning relation between variable and stimulus

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- Single variable model

└ Learning relation between variable and stimulus

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- Summary of *A tutorial on the free-energy framework for modelling perception and learning* by Rafal Bogacz
  - Single variable model
    - Free energy framework

- └ Single variable model
  - └ Free energy framework

- Free energy framework



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- └ Multiple variables model
  - └ Multiple variables model

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- Multiple variables model

- Multiple variables model

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- └ Multiple variables model
  - └ Learning parameters

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- └ Multiple variables model

- Learning parameters

## Hierarchical structure implementation

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- Multiple variables model

## └ Hierarchical structure implementation

## Recover local plasticity

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- Multiple variables model

- └ Recover local plasticity

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- └ Conclusion
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