

# Introduction to High-Performance Computing with R

Tutorial at *useR!* 201

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# Outline

1 Motivation

2 Automation and Scripting

3 Measuring and Profiling

4 Speeding up

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# Some title2

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# Outline

## 1 Motivation

## 2 Automation and Scripting

- Overview

- Littler
- Rscript

## 3 Measuring and Profiling

## 4 Speeding up

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# Outline

## 1 Motivation

## 2 Automation and Scripting

## 3 Measuring and Profiling

- Overview
- RProf
- RProfmem
- Profiling Compiled Code
- Sumary

## 4 Speeding up

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# Outline

- 1 Motivation
- 2 Automation and Scripting
- 3 Measuring and Profiling
- 4 Speeding up
  - Vectorisation
  - Just-in-time compilation
  - BLAS
  - GPUs
  - Summary

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