

# **Advanced R (2nd Edition): field manual**

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## Another version?

This is yet another version of the solutions to [Advanced R, 2nd edition](#) (`advR2`). I've returned to `advR2` more than any other for my day-to-day activities as an R developer, and after working through each of the exercises, then reading how others had solved them, I decided some of my solutions differed enough to warrant putting them in a book.

I highly recommend the [Advanced R Solutions](#) by Malte Grosser, Henning Bumann, and Hadley Wickham. Indrajeet Patil also has a [solutions manual](#) worth reading for alternative approaches.

# **Part I**

## **Foundations**

## **Names & Values**

# Vectors

# Subsetting



## Control flow

# Functions

# Environments

## Conditions

# **Part II**

## **Functional programming**

# Functionals

## Function factories

## Function operators



## **Part III**

# **Object-oriented programming**

## Base types

**S3**

**R6**

**S4**

## Trade-offs

# **Part IV**

## **Metaprogramming**

## Big picture



# Expressions

# Quasiquotation

# Evaluation

## Translating R code

# Techniques

# **Part V**

## **Debugging**

# Debugging

## Measuring performance



## **Improving performance**

## Rewriting R code in C++