

# Rの導入方法

# プログラミング言語「R」とは



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## R Foundation

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## The R Project for Statistical Computing

### Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

### News

- [R version 4.5.0 \(How About a Twenty-Six\) prerelease versions](#) will appear starting Tuesday 2025-03-11. Final release is scheduled for Friday 2025-04-11.
- [R version 4.4.3 \(Trophy Case\)](#) has been released on 2025-02-28.
- The [useR! 2025](#) conference will take place at Duke University, in Durham, NC, USA, August 8-10.
- We are deeply sorry to announce that our friend and colleague Friedrich (Fritz) Leisch has died. [Read our tribute to Fritz here](#).
- [R version 4.3.3 \(Angel Food Cake\)](#) (wrap-up of 4.3.x) was released on 2024-02-29.
- You can support the R Foundation with a renewable subscription as a [supporting member](#).

R言語の開発を行っている [The R Project for Statistical Computing](#) のトップページ。Rに関する基本的な情報のほか、最新のリリース情報やマニュアルの閲覧ができる。

- 統計解析やデータ分析に特化したオープンソースのプログラミング言語
- 強力な可視化ライブラリ([ggplot2](#) など)や統計モデリング機能が充実しており、研究・データサイエンスの分野で広く利用されている

# CRAN (The Comprehensive R Archive Network)

R の公式リポジトリであり, R 本体や多数のパッケージを管理・提供するネットワーク



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## The Comprehensive R Archive Network

### Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux \(Debian, Fedora/Redhat, Ubuntu\)](#)
- [Download R for macOS](#)
- [Download R for Windows](#)

R本体のダウンロードはここで可能

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

### Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2025-02-28, Trophy Case) [R-4.4.3.tar.gz](#), read [what's new](#) in the latest version.
- The CRAN directory [src/base-prerelease](#) contains R alpha, beta, and rc releases as daily snapshots in time periods before a planned release.
- Between releases, the same directory [src/base-prerelease](#) contains snapshots of current patched and development versions.  
Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Alternatively, daily snapshots are [available here](#).

- 世界中のミラーサーバーを通じて最新の R のバージョンやパッケージをダウンロードできる
- 統計解析やデータサイエンス向けの豊富なライブラリが公開されており, R ユーザーの主要なリソースとなっている

CRANのトップページ

# Rのセットアップファイルのダウンロード



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- [Download R for macOS](#)
- [Download R for Windows](#)

自分のOSに合わせたダウンロード  
ページへいく

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

### Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

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# Rのセットアップファイルのダウンロード (Windows)



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R for Windows

Subdirectories:

- [base](#)
- [contrib](#)
- [old contrib](#)
- [Rtools](#)

Binaries for base distribution. This is what you want to [install R for the first time](#).

Binaries of contributed CRAN packages (for R >= 4.0.x).

Binaries of contributed CRAN packages for outdated versions of R (for R < 4.0.x).

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

① Install R for the first time をクリック

② Download R-x.x.x for Windows  
をクリックしてリンク先のファイルを保存

R-4.4.3 for Windows

[Download R-4.4.3 for Windows](#) (85 megabytes, 64 bit)

[README on the Windows binary distribution](#)

[New features in this version](#)

This build requires UCRT, which is part of Windows since Windows 10 and Windows Server 2016. On older systems, UCRT has to be installed manually from [here](#).

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [fingerprint](#) on the master server.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is [<CRAN MIRROR>/bin/windows/base/release.html](#).

Last change: 2025-03-01

# Rのセットアップファイルのダウンロード(macOS)



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## R for macOS

This directory contains binaries for the base distribution and of R and packages to run on macOS. R and package binaries for R versions older than 4.0.0 are only available from the [CRAN archive](#) so users of such versions should adjust the CRAN mirror setting (<https://cran-archive.r-project.org>) accordingly.

Note: Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

R 4.4.3 "Trophy Case" released on 2025/02/28

Please check the integrity of the downloaded package by checking the signature:

```
pkgutil --check-signature R-4.4.3-arm64.pkg  
in the Terminal application. If Apple tools are not available you can check the SHA1 checksum of the downloaded image:  
openssl sha1 R-4.4.3-arm64.pkg
```

For Apple silicon (M1,2,...) Macs:  
[R-4.4.3-arm64.pkg](#)  
SHA1-hash: c32bed5f80b74dd31a8c5598a5a0f08b6c89073  
(ca. 97MB, notarized and signed)  
  
For older Intel Macs:  
[R-4.4.3-x86\\_64.pkg](#)  
SHA1-hash: 2391c3c97b3c93d36001a3c3b314afe6efc819  
(ca. 100MB, notarized and signed)

## Latest release:

**R 4.4.3** binary for macOS 11 (**Big Sur**) and higher, signed and notarized packages.

Contains R 4.4.3 framework, R.app GUI 1.81, Tcl/Tk 8.6.12 X11 libraries and Texinfo 6.8. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

macOS Ventura users: there is a known bug in Ventura preventing installations from some locations without a prompt. If the installation fails, move the downloaded file away from the *Downloads* folder (e.g., to your home or Desktop).

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) (version 2.8.5 or later). Always re-install XQuartz when upgrading your macOS to a new major version.

This release uses Xcode 14.2/14.3 and GNU Fortran 12.2. If you wish to compile R packages which contain Fortran code, you may need to download the corresponding GNU Fortran compiler from <https://mac.R-project.org/tools>. Any external libraries and tools are expected to live in `/opt/R/arm64` (Apple silicon) or `/opt/R/x86_64` (Intel).

News features and changes in the R.app Mac GUI

Sources for the R.app GUI 1.81 for macOS. This file is only needed if you want to join the development of the GUI (see also [Mac-GUI repository](#)), it is not intended for regular users. Read the INSTALL file for further instructions.

[NEWS](#) (for Mac GUI)

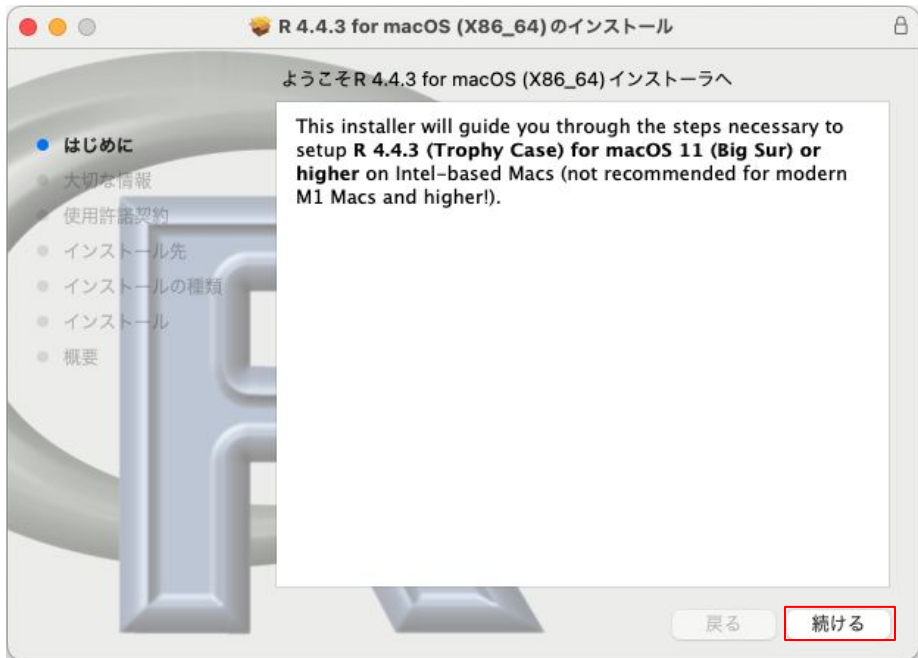
[Mac-GUI-1.81.tar.gz](#)

SHA1-hash: 2980af0d8fa91660c1df44c200c8914df6451fd

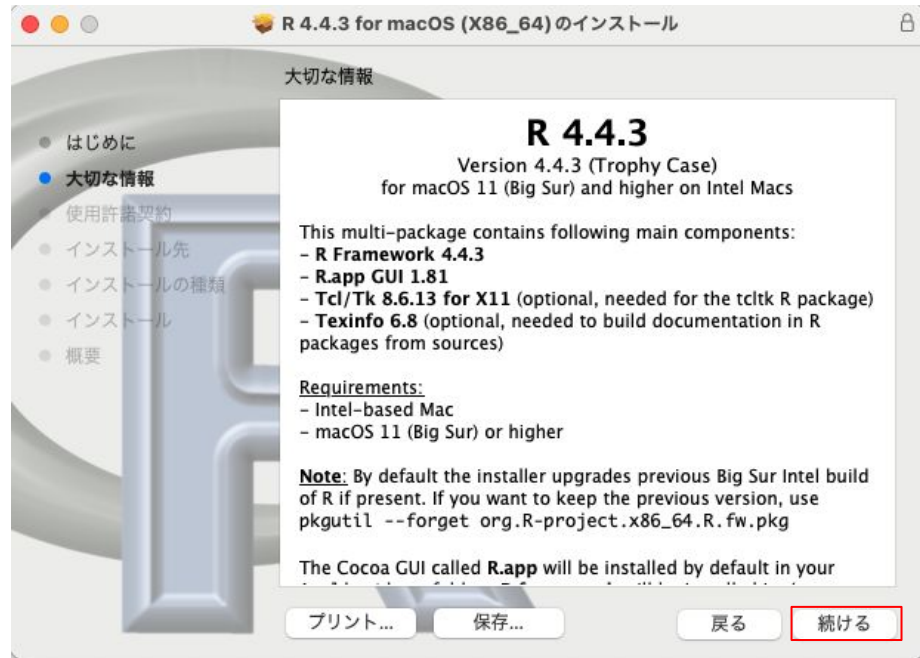
M1以降の場合は上を, Intelの場合は下を  
クリックしてリンク先のファイルを保存

# Rのインストール(macOS)

## ① インストーラを立ち上げ



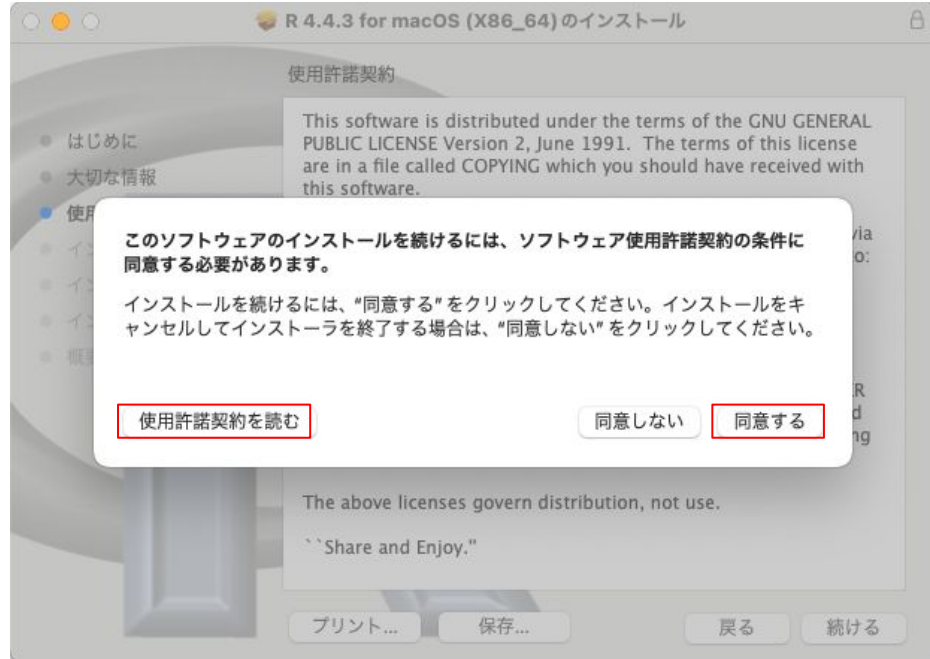
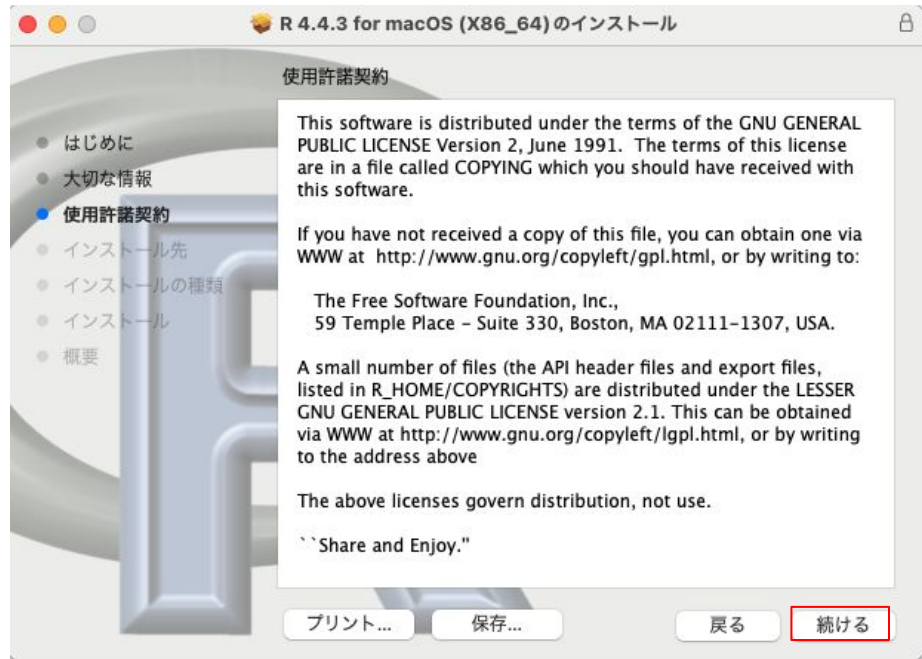
## ② 大切な情報(読むだけ)





# Rのインストール(macOS)

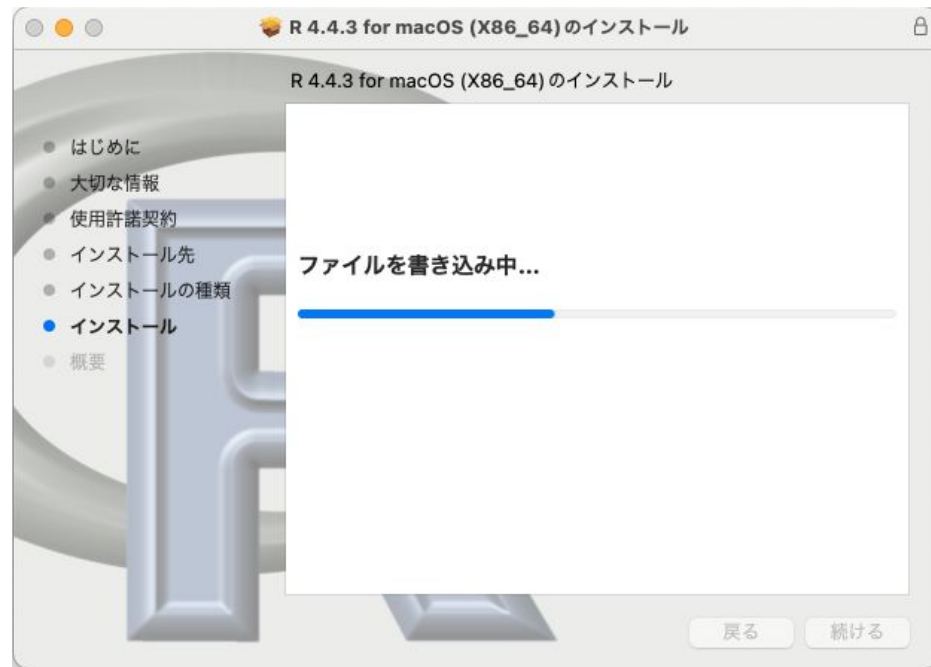
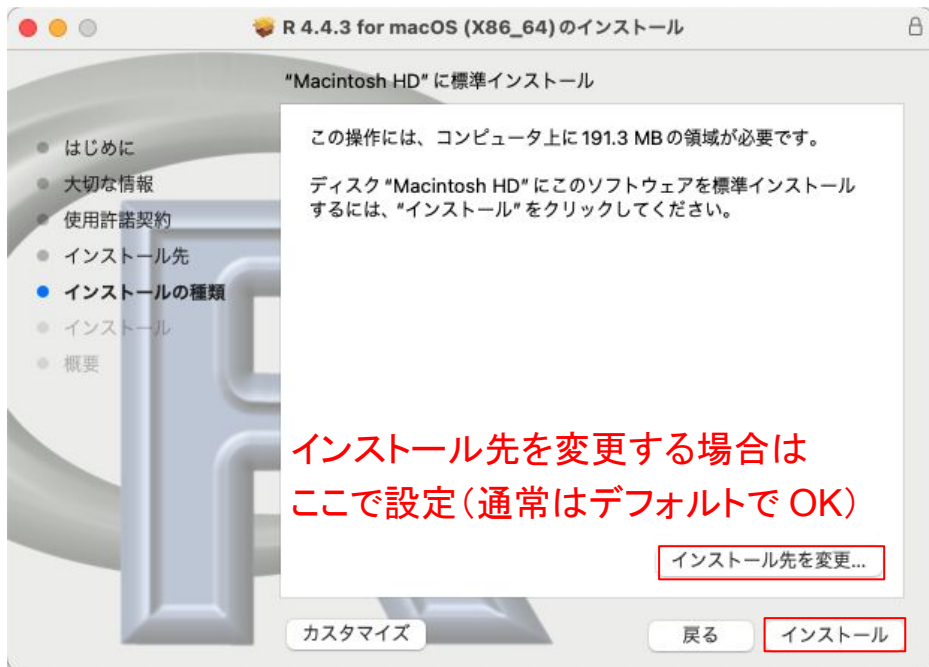
## ③ 使用許諾契約





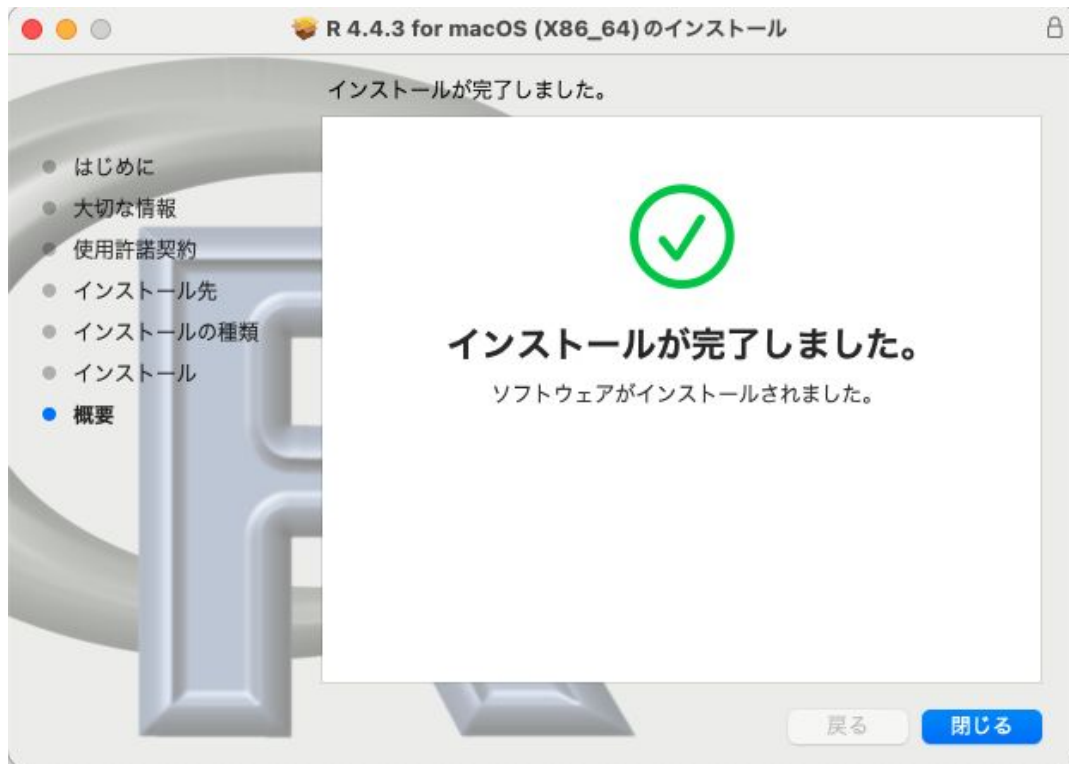
# Rのインストール(macOS)

## ④ インストール



# Rのインストール(macOS)

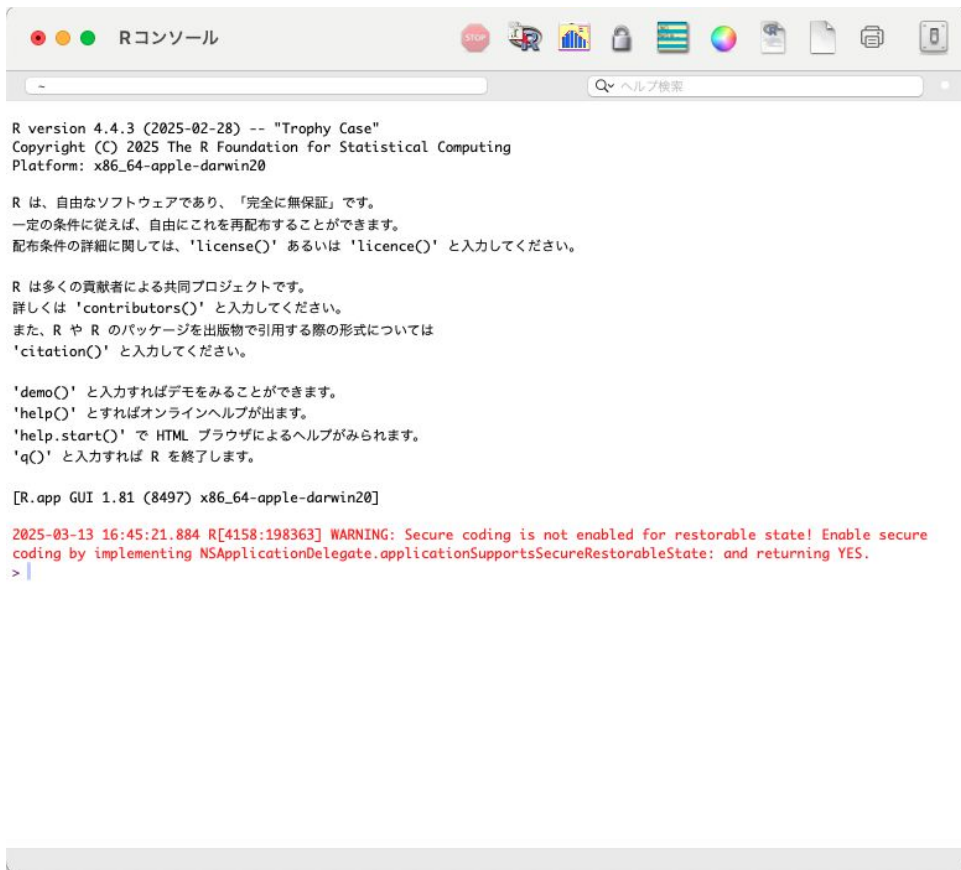
## ⑤ インストール完了



# Rの立ち上げ(Mac)



Rのアプリアイコン

The image shows a screenshot of the R console window on a Mac. The window title is 'R コンソール'. The console output displays the R version (4.4.3), copyright information (© 2025 The R Foundation for Statistical Computing), and platform (x86\_64-apple-darwin20). It also includes Japanese text explaining that R is free software with no warranty, and provides instructions on how to use various functions like 'demo()', 'help()', 'help.start()', and 'q()'. At the bottom, there is a warning message about secure coding and a prompt for user input ('>').

```
R version 4.4.3 (2025-02-28) -- "Trophy Case"
Copyright (C) 2025 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin20

R は、自由なソフトウェアであり、「完全に無保証」です。
一定の条件に従えば、自由にこれを再配布することができます。
配布条件の詳細に関しては、'license()' あるいは 'licence()' と入力してください。

R は多くの貢献者による共同プロジェクトです。
詳しくは 'contributors()' と入力してください。
また、R や R のパッケージを出版物で引用する際の形式については
'citation()' と入力してください。

'demo()' と入力すればデモをみることができます。
'help()' とすればオンラインヘルプが出ます。
'help.start()' で HTML ブラウザによるヘルプがみられます。
'q()' と入力すれば R を終了します。

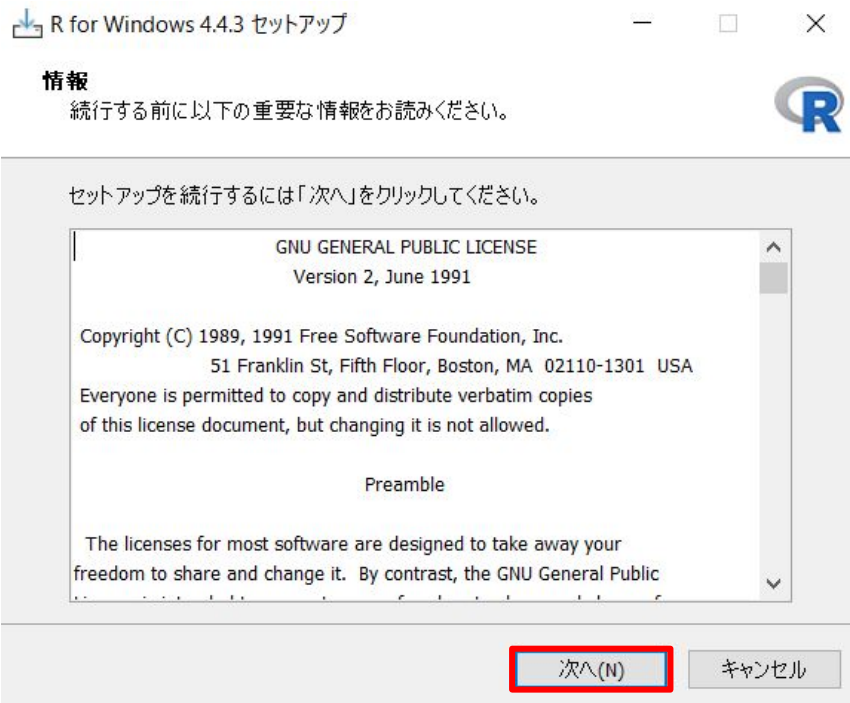
[R.app GUI 1.81 (8497) x86_64-apple-darwin20]

2025-03-13 16:45:21.884 R[4158:198363] WARNING: Secure coding is not enabled for restorable state! Enable secure
coding by implementing NSApplicationDelegate.applicationSupportsSecureRestorableState: and returning YES.
> |
```

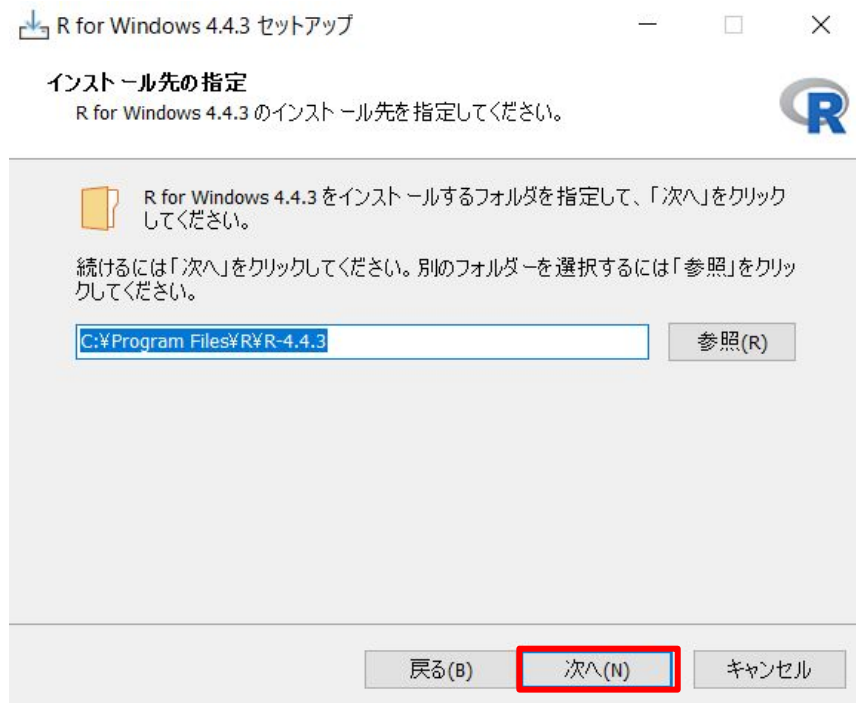
Rのコンソール画面

# Rのインストール(Windows)

## ① インストーラを立ち上げ

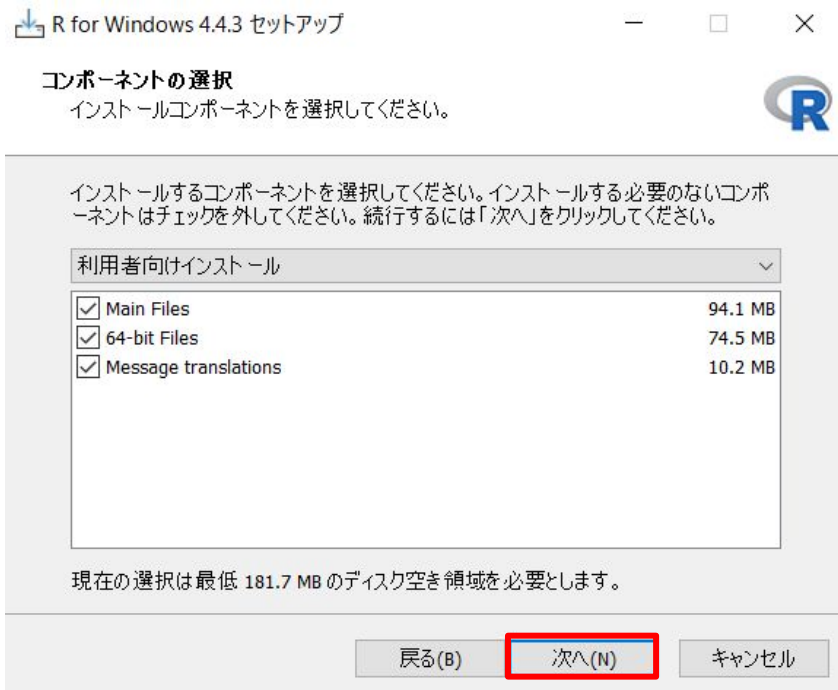


## ② インストール先の指定 (特に指定がなければデフォルトで OK)

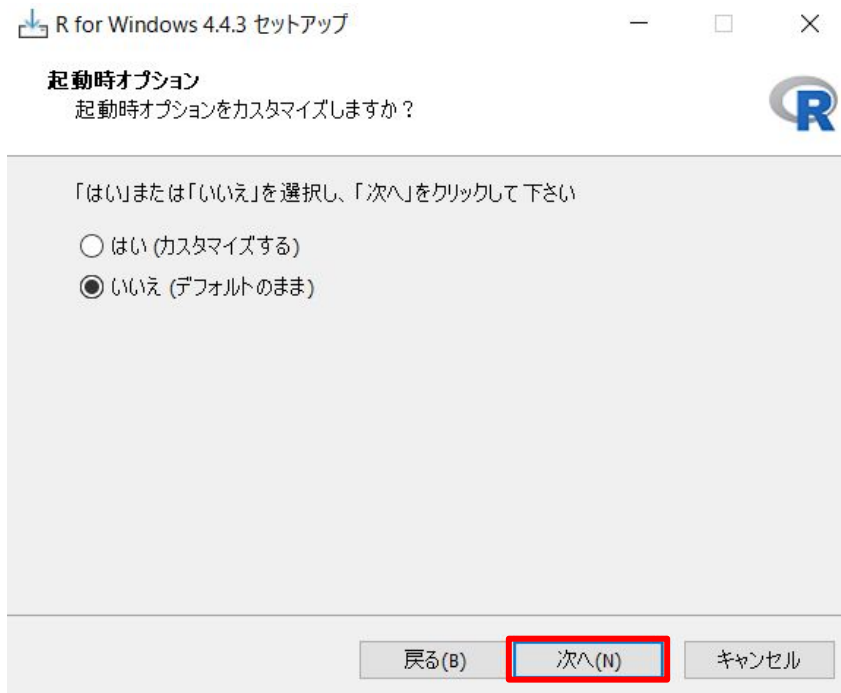


# Rのインストール(Windows)

## ③ コンポーネントの選択 (デフォルトでOK)

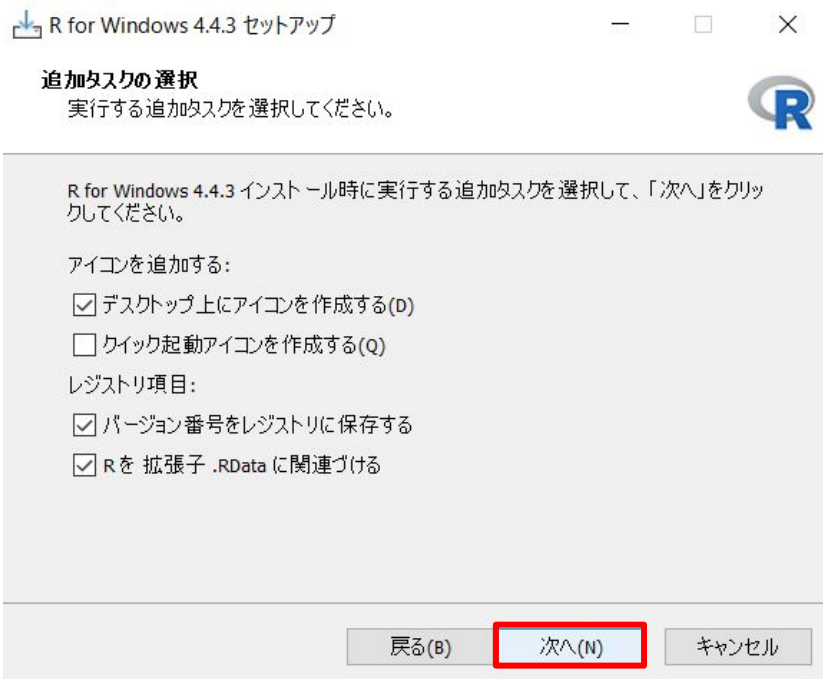


## ④ 起動時オプション (デフォルトでOK)

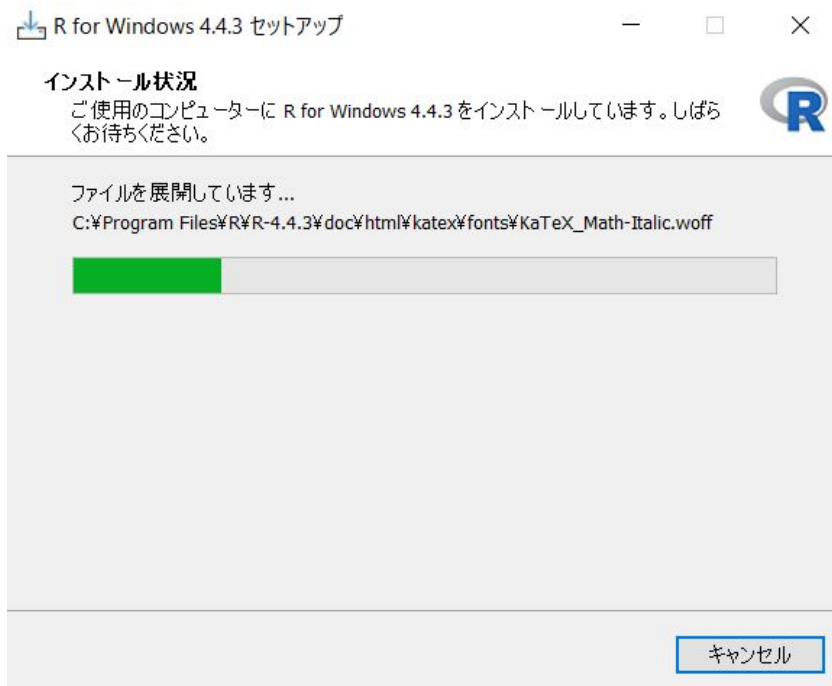


# Rのインストール(Windows)

## ⑤ 追加タスクの選択 (デフォルトでOK)

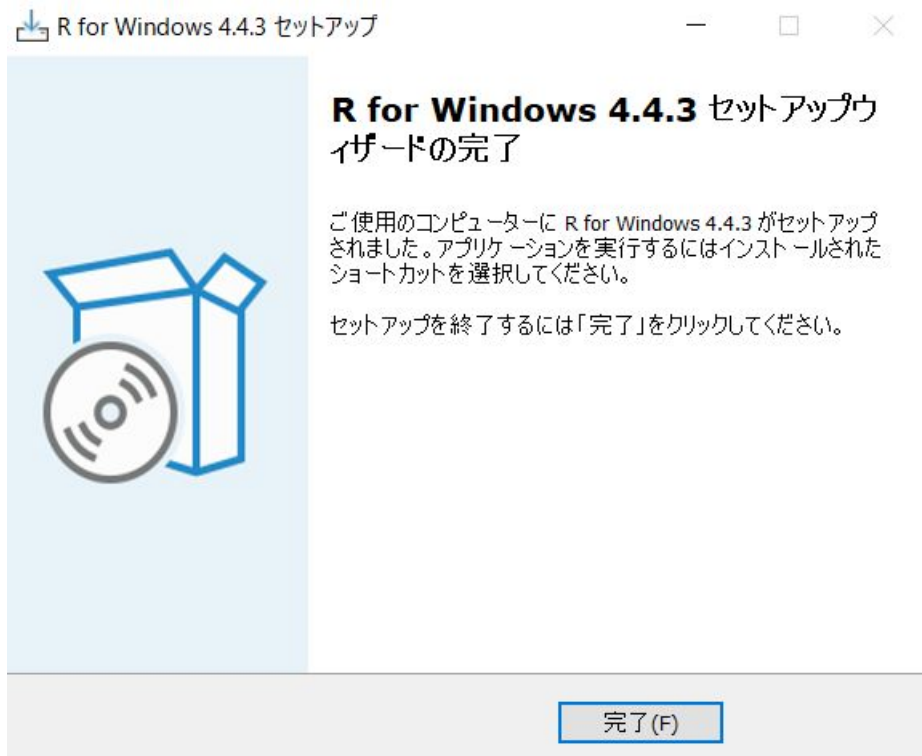


## ⑥ インストール



# Rのインストール(Windows)

## ⑦ インストール完了

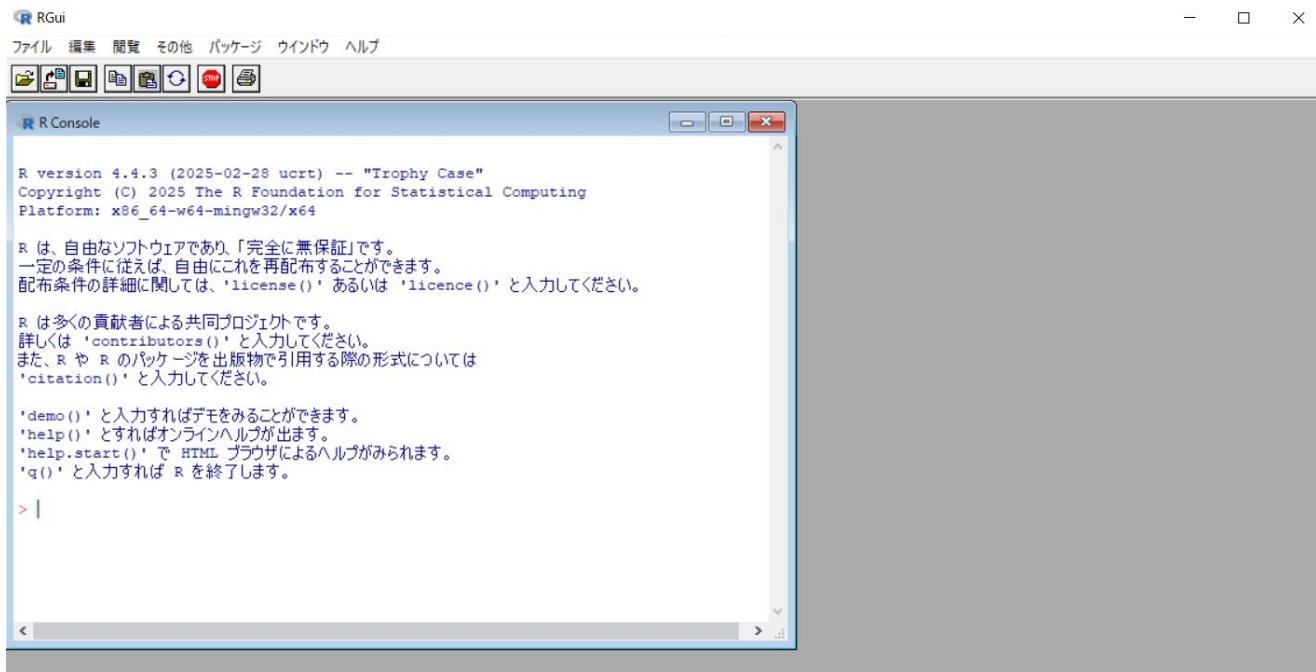




# Rの立ち上げ(Mac)



Rのアプリアイコン



Rのコンソール画面