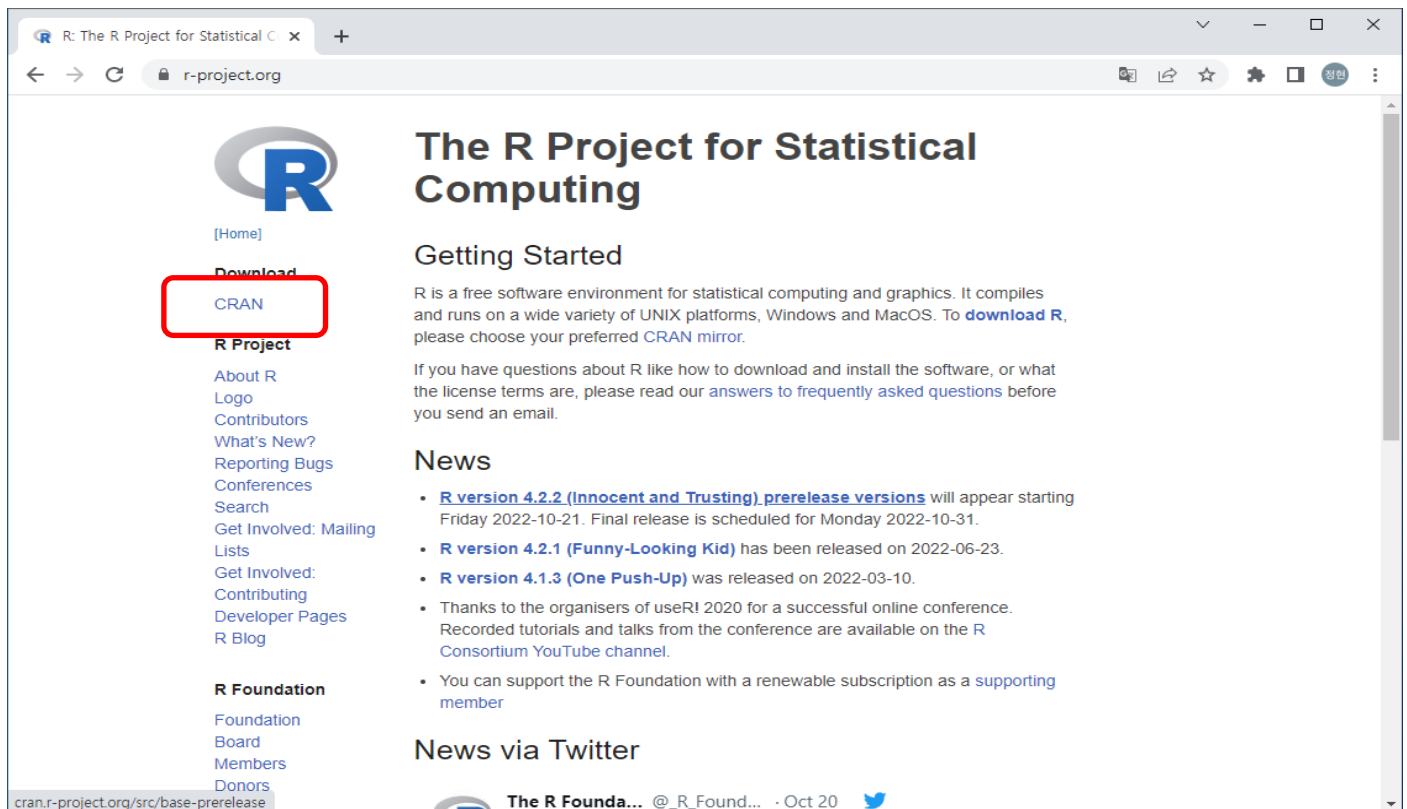


## R 개발 환경 설치 - <https://www.r-project.org/>



The R Project for Statistical Computing

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Reporting Bugs  
Conferences  
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Developer Pages  
R Blog

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**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](#).

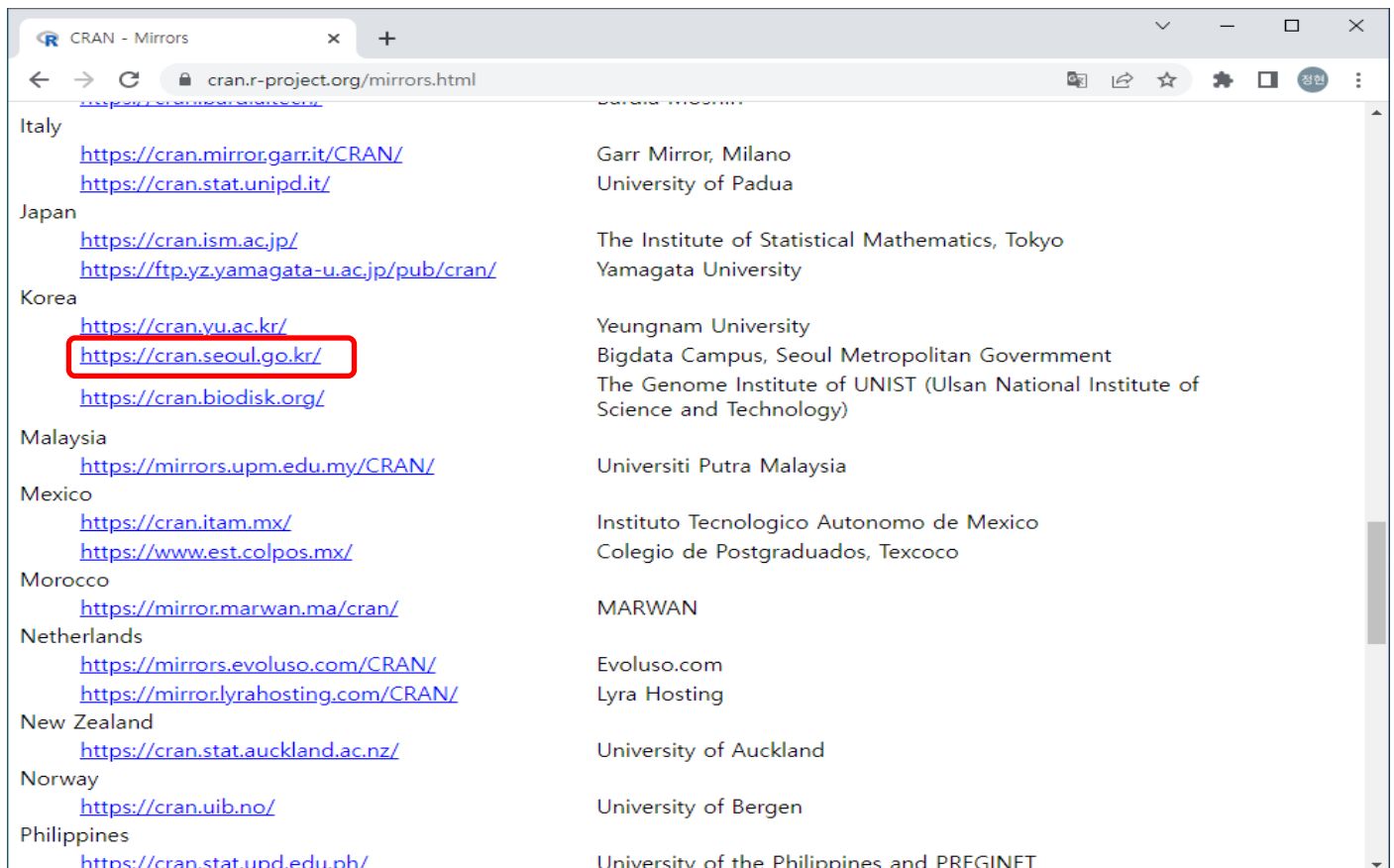
If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

**News**

- [R version 4.2.2 \(Innocent and Trusting\) prerelease versions](#) will appear starting Friday 2022-10-21. Final release is scheduled for Monday 2022-10-31.
- [R version 4.2.1 \(Funny-Looking Kid\)](#) has been released on 2022-06-23.
- [R version 4.1.3 \(One Push-Up\)](#) was released on 2022-03-10.
- Thanks to the organisers of useR! 2020 for a successful online conference. Recorded tutorials and talks from the conference are available on the [R Consortium YouTube channel](#).
- You can support the R Foundation with a renewable subscription as a [supporting member](#)

**News via Twitter**

The R Founda... @\_R\_Found... · Oct 20




CRAN - Mirrors

[cran.r-project.org/mirrors.html](https://cran.r-project.org/mirrors.html)

Italy	<a href="https://cran.mirror.garr.it/CRAN/">https://cran.mirror.garr.it/CRAN/</a> <a href="https://cran.stat.unipd.it/">https://cran.stat.unipd.it/</a>	Garr Mirror, Milano University of Padua
Japan	<a href="https://cran.ism.ac.jp/">https://cran.ism.ac.jp/</a> <a href="https://ftp.yz.yamagata-u.ac.jp/pub/cran/">https://ftp.yz.yamagata-u.ac.jp/pub/cran/</a>	The Institute of Statistical Mathematics, Tokyo Yamagata University
Korea	<a href="https://cran.yu.ac.kr/">https://cran.yu.ac.kr/</a> <a href="https://cran.seoul.go.kr/">https://cran.seoul.go.kr/</a> <a href="https://cran.bioidisk.org/">https://cran.bioidisk.org/</a>	Yeungnam University Bigdata Campus, Seoul Metropolitan Government The Genome Institute of UNIST (Ulsan National Institute of Science and Technology)
Malaysia	<a href="https://mirrors.upm.edu.my/CRAN/">https://mirrors.upm.edu.my/CRAN/</a>	Universiti Putra Malaysia
Mexico	<a href="https://cran.itam.mx/">https://cran.itam.mx/</a> <a href="https://www.est.colpos.mx/">https://www.est.colpos.mx/</a>	Instituto Tecnologico Autonomo de Mexico Colegio de Postgraduados, Texcoco
Morocco	<a href="https://mirror.marwan.ma/cran/">https://mirror.marwan.ma/cran/</a>	MARWAN
Netherlands	<a href="https://mirrors.evoluso.com/CRAN/">https://mirrors.evoluso.com/CRAN/</a> <a href="https://mirror.lyrahosting.com/CRAN/">https://mirror.lyrahosting.com/CRAN/</a>	Evoluso.com Lyra Hosting
New Zealand	<a href="https://cran.stat.auckland.ac.nz/">https://cran.stat.auckland.ac.nz/</a>	University of Auckland
Norway	<a href="https://cran.uib.no/">https://cran.uib.no/</a>	University of Bergen
Philippines	<a href="https://cran.stat.upd.edu.ph/">https://cran.stat.upd.edu.ph/</a>	University of the Philippines and PREGINET

The Comprehensive R Archive Network



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[What's new?](#)  
[Search](#)  
[CRAN Team](#)

About R  
[R Homepage](#)  
[The R Journal](#)

Software  
[R Sources](#)  
[R Binaries](#)  
[Packages](#)  
[Task Views](#)  
[Other](#)

Documentation  
[Manuals](#)  
[FAQs](#)

### 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 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 (2022-06-23, Funny-Looking Kid) [R-4.2.1.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).

R for Windows



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[What's new?](#)  
[Search](#)  
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[The R Journal](#)

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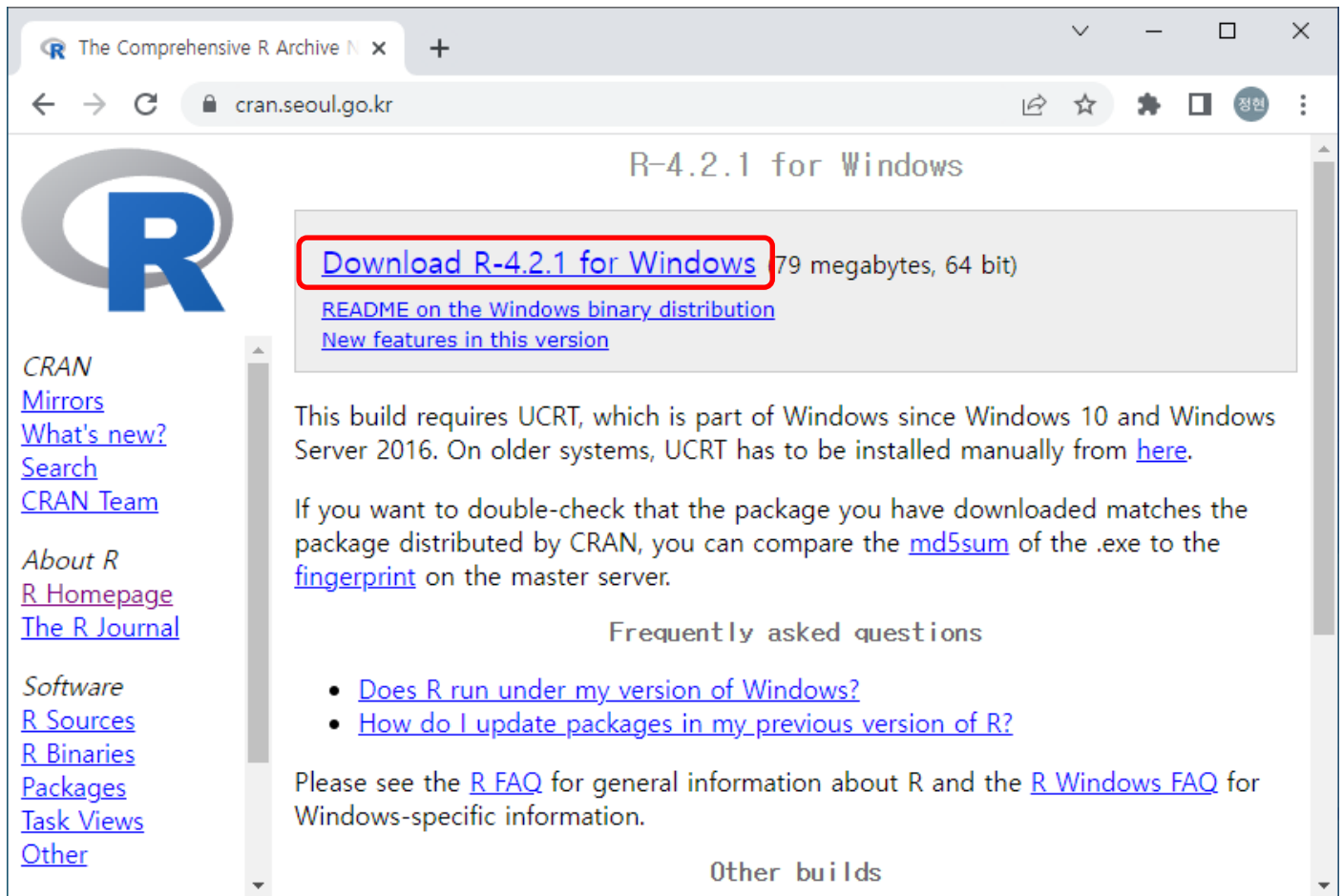
Subdirectories:

<a href="#">base</a>	Binaries for base distribution. This is what you want to <a href="#">install R for the first time.</a>
<a href="#">contrib</a>	Binaries of contributed CRAN packages (for R $\geq$ 3.4.x).
<a href="#">old.contrib</a>	Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 3.4.x).
<a href="#">Rtools</a>	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.



The Comprehensive R Archive Network

cran.seoul.go.kr

## R-4.2.1 for Windows

[Download R-4.2.1 for Windows](#) (79 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

CRAN

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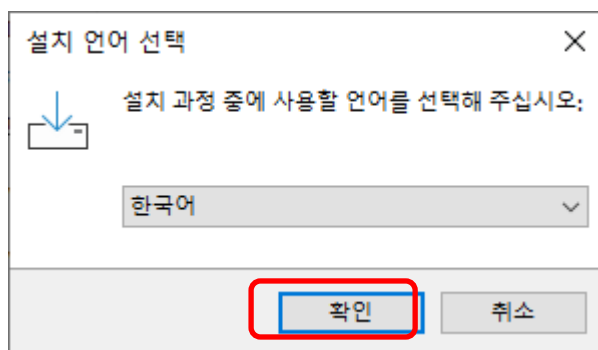
About R

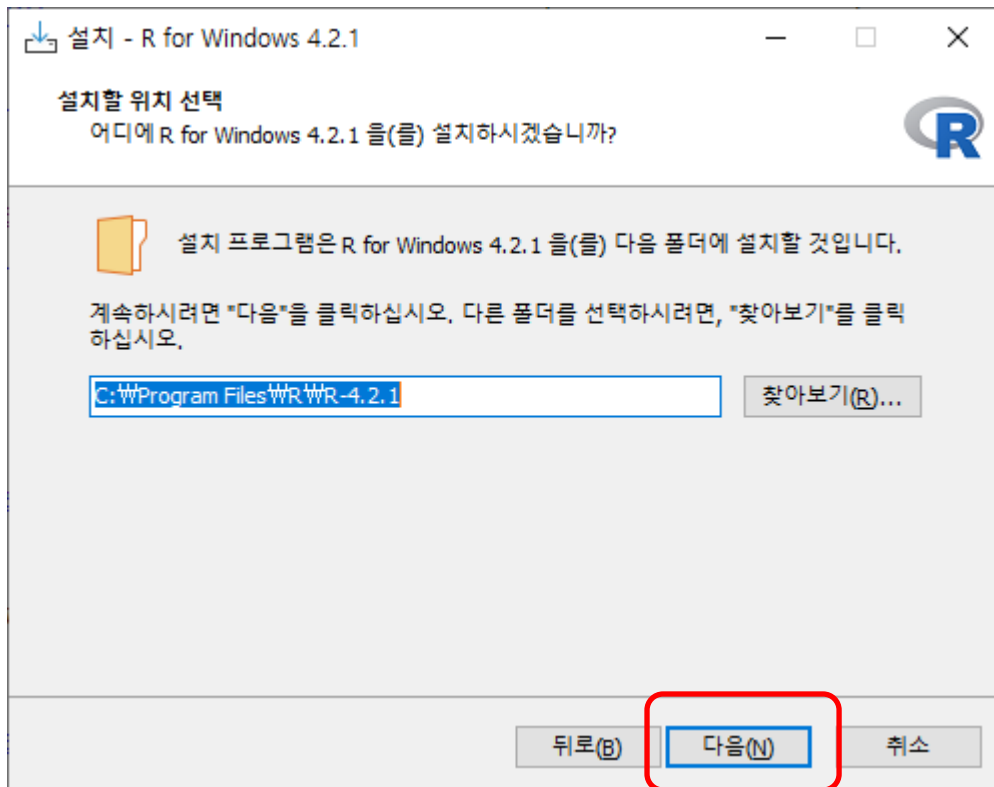
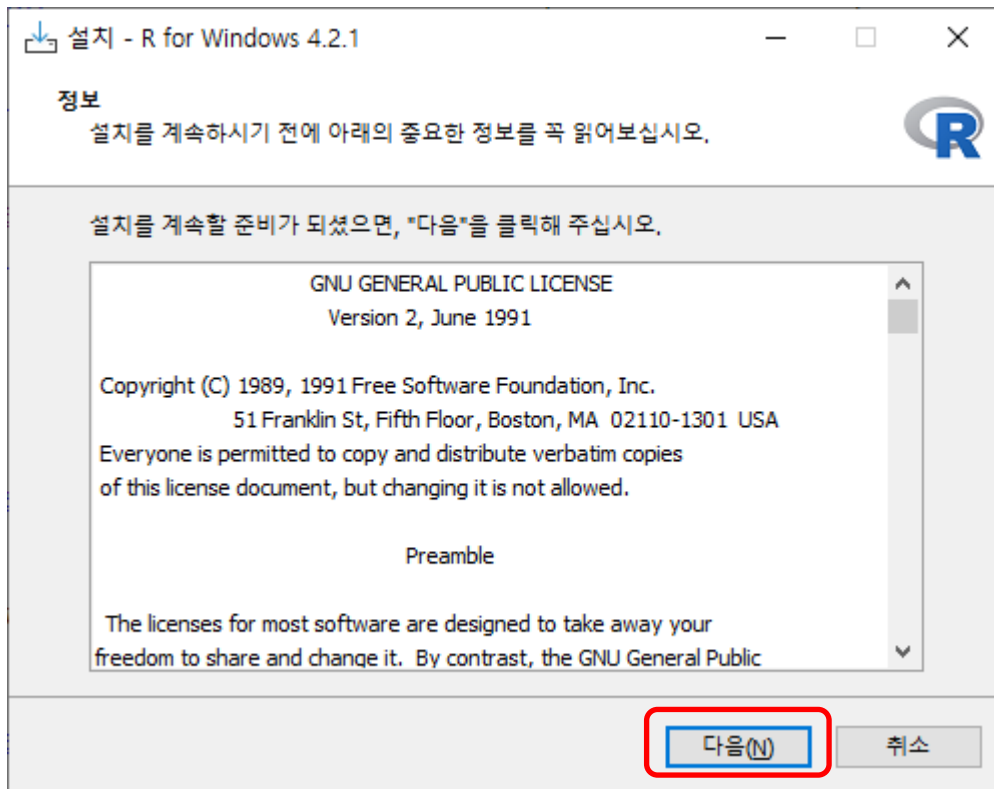
- [R Homepage](#)
- [The R Journal](#)

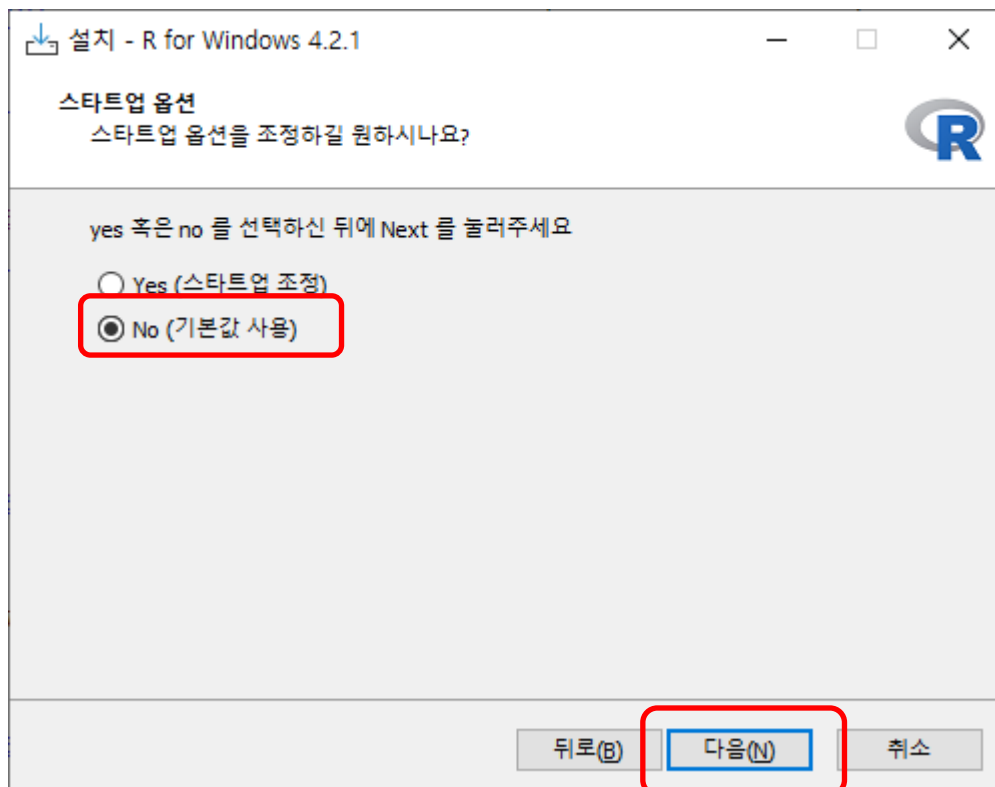
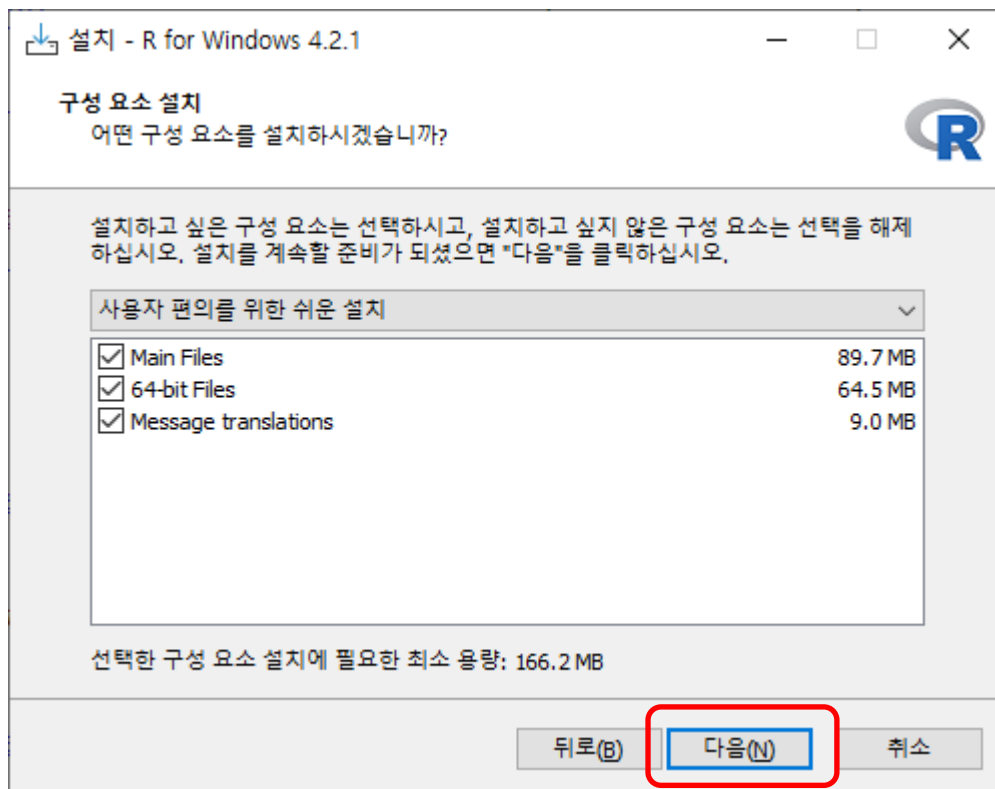
Software

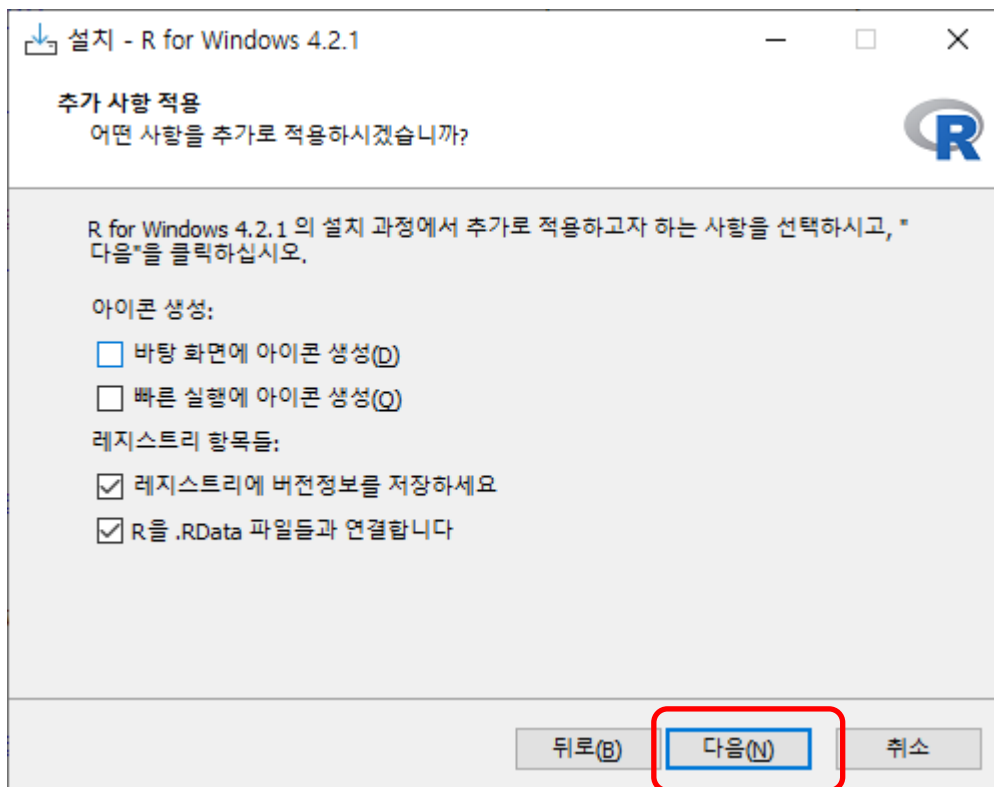
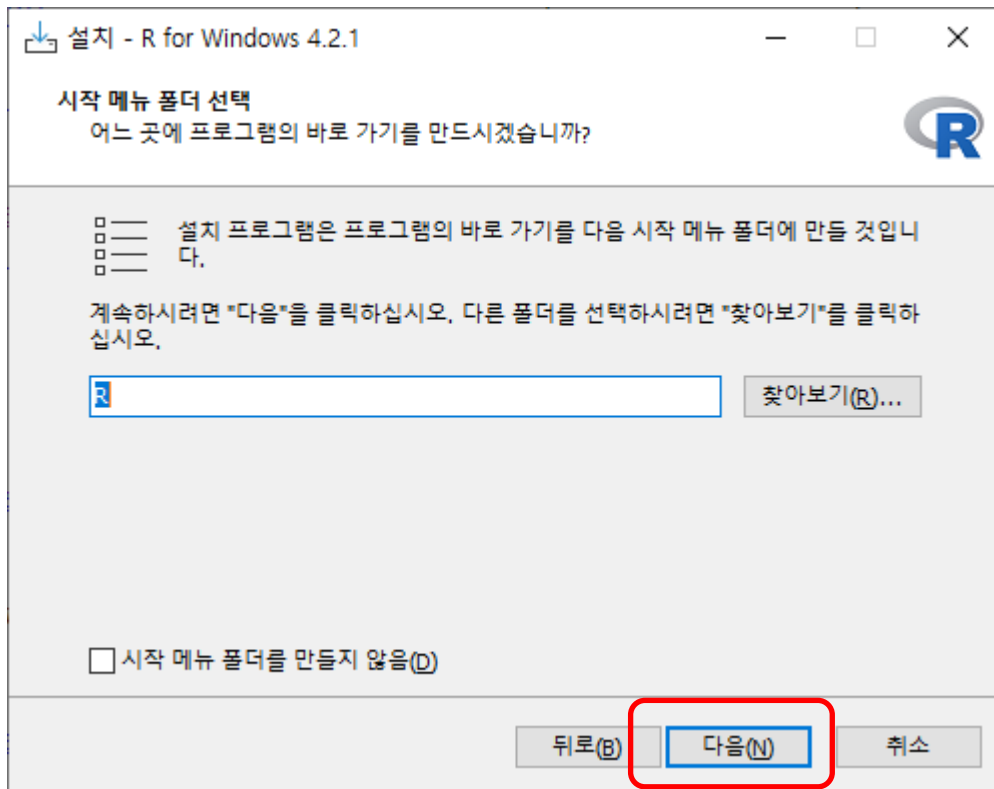
- [R Sources](#)
- [R Binaries](#)
- [Packages](#)
- [Task Views](#)
- [Other](#)

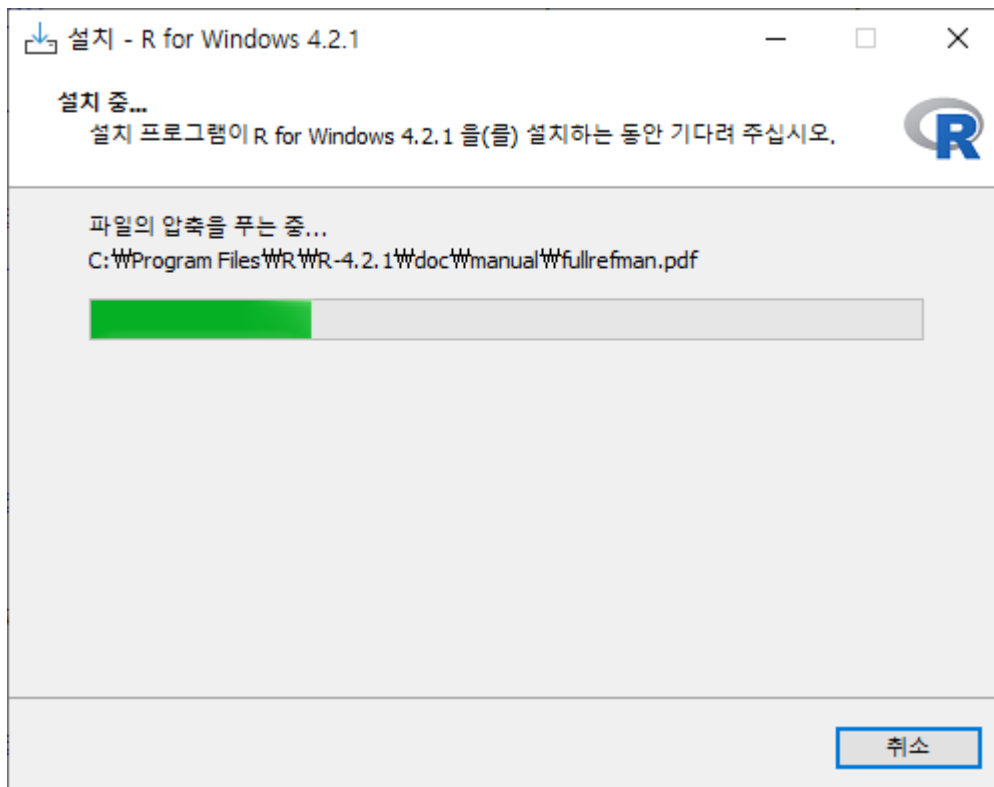
**R-4.2.1-win.exe** 파일이 다운로드 되면 더블 클릭하여 설치를 시작한다.

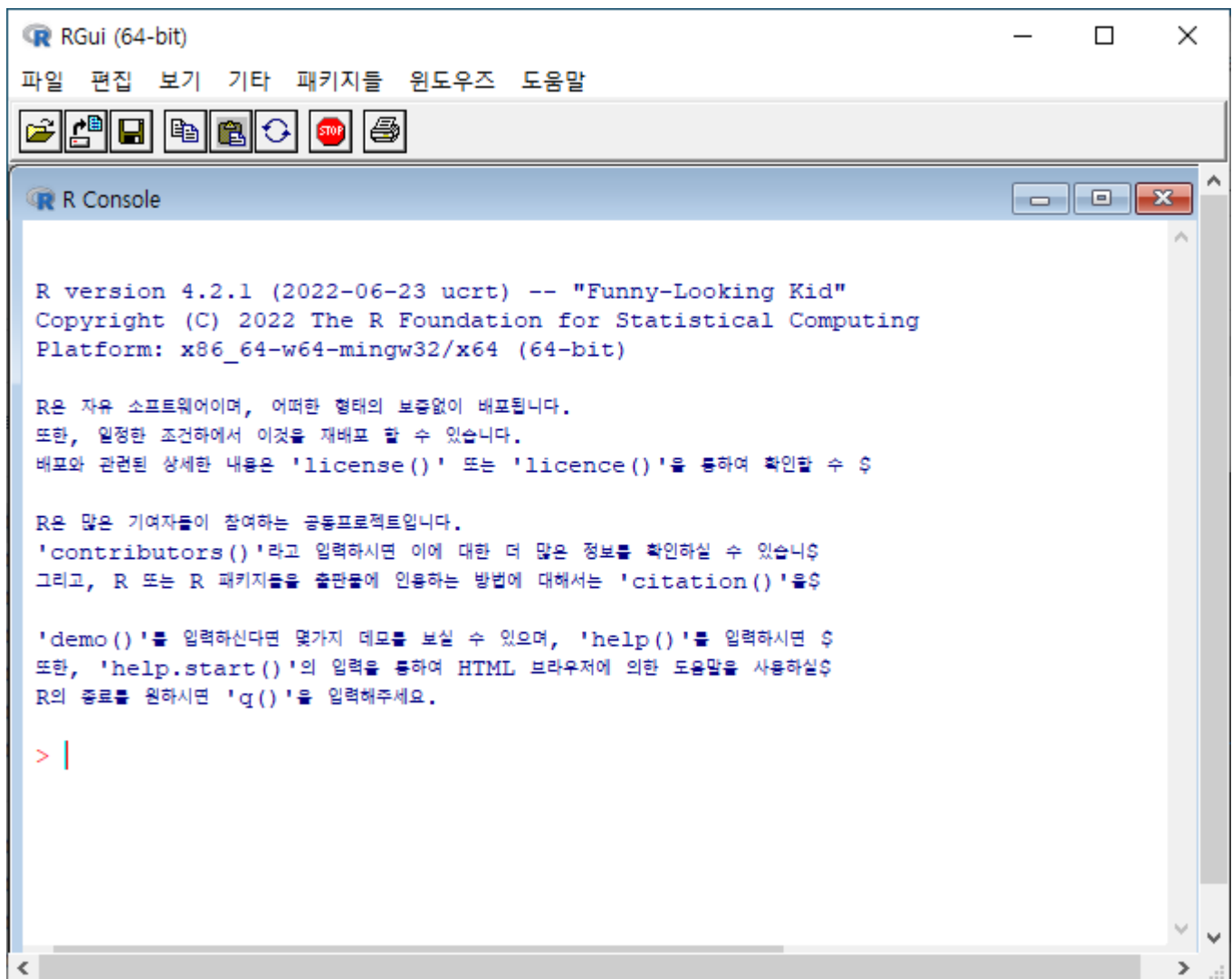
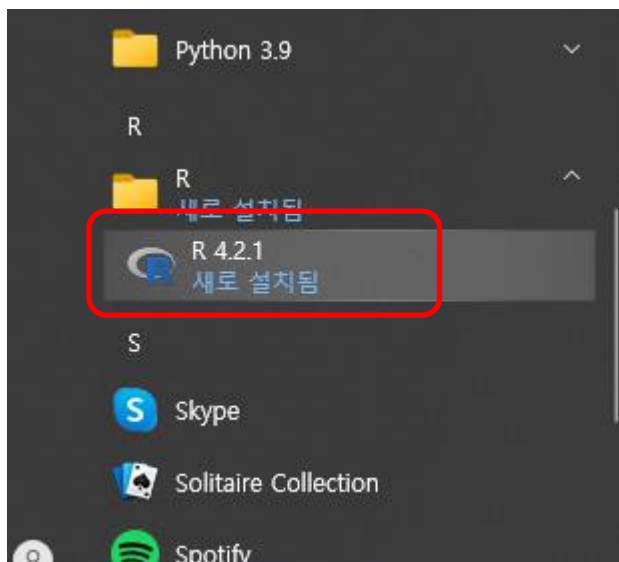




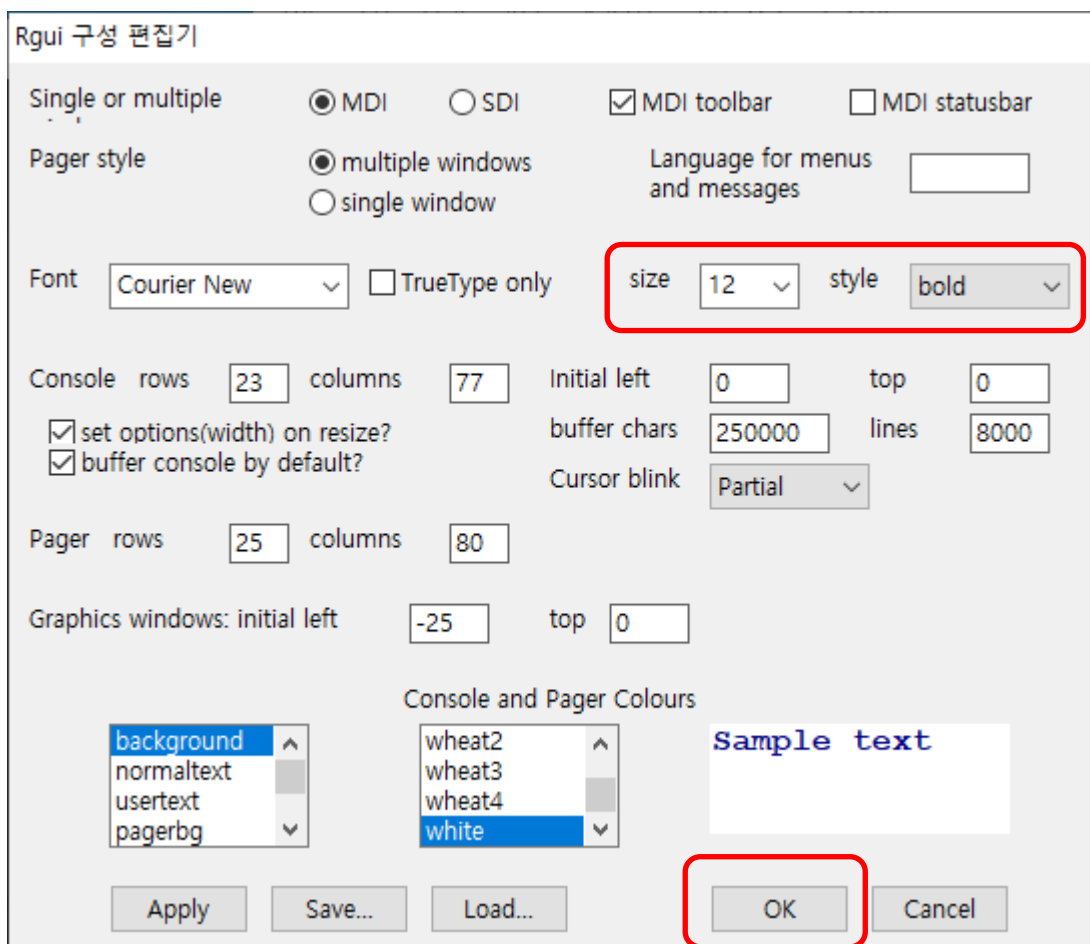
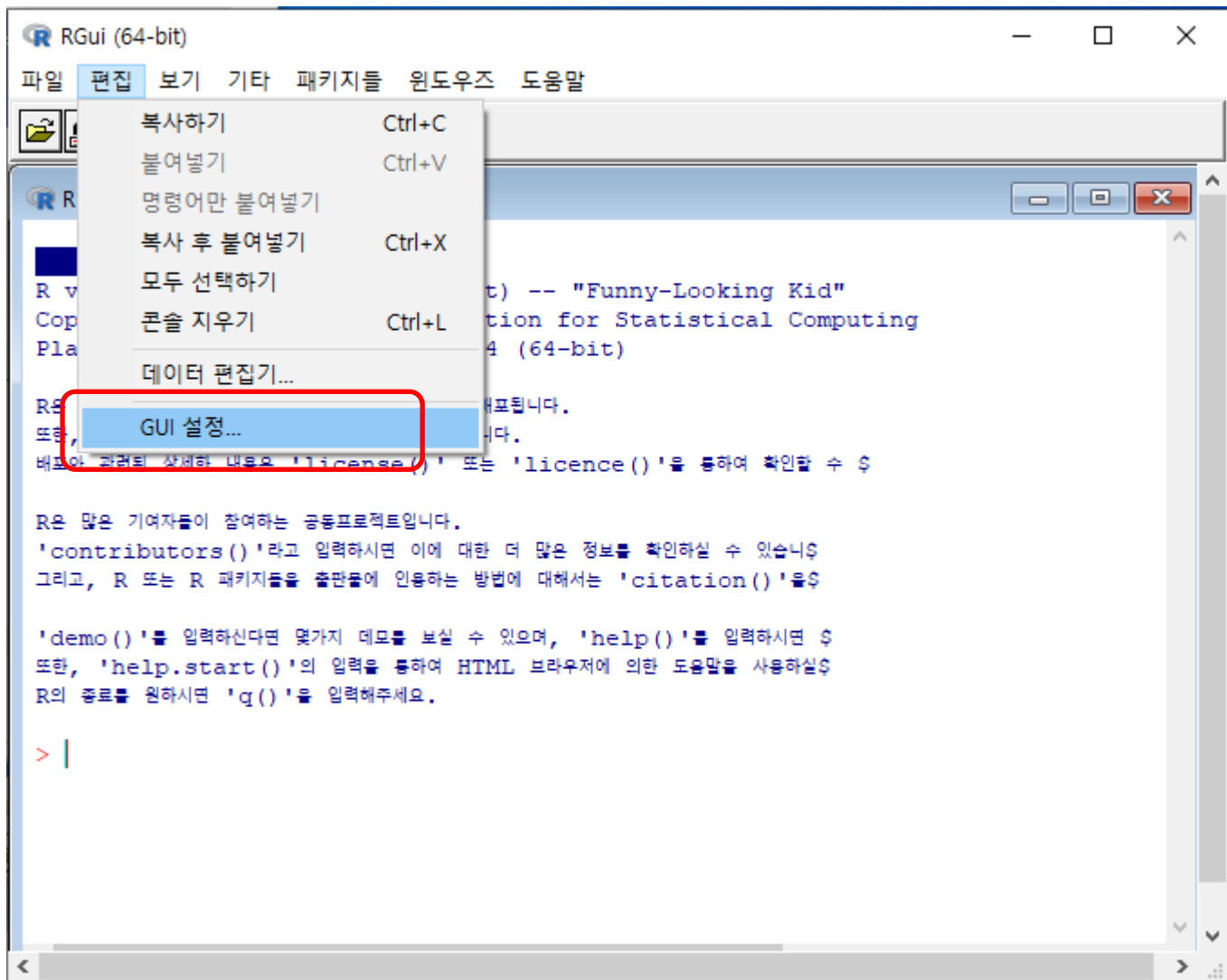












```
RGui (64-bit)
파일 편집 보기 기타 패키지들 윈도우즈 도움말

R Console

R version 4.2.1 (2022-06-23 ucrt) -- "Funny-Looking Kid"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R은 자유 소프트웨어이며, 어떠한 형태의 보증없이 배포됩니다.
또한, 일정한 조건하에서 이것을 재배포 할 수 있습니다.
배포와 관련된 상세한 내용은 'license()' 또는 'licence()'을 통하여 확인할 수 $

R은 많은 기여자들이 참여하는 공동프로젝트입니다.
'contributors()'라고 입력하시면 이에 대한 더 많은 정보를 확인하실 수 있습니$
그리고, R 또는 R 패키지들을 출판물에 인용하는 방법에 대해서는 'citation()'을$

'demo()'를 입력하신다면 몇가지 데모를 보실 수 있으며, 'help()'를 입력하시면 $
또한, 'help.start()'의 입력을 통하여 HTML 브라우저에 의한 도움말을 사용하실$
R의 종료를 원하시면 'q()'을 입력해주세요.

> |
```

```
RGui (64-bit)
파일 편집 보기 기타 패키지들 윈도우즈 도움말

R Console

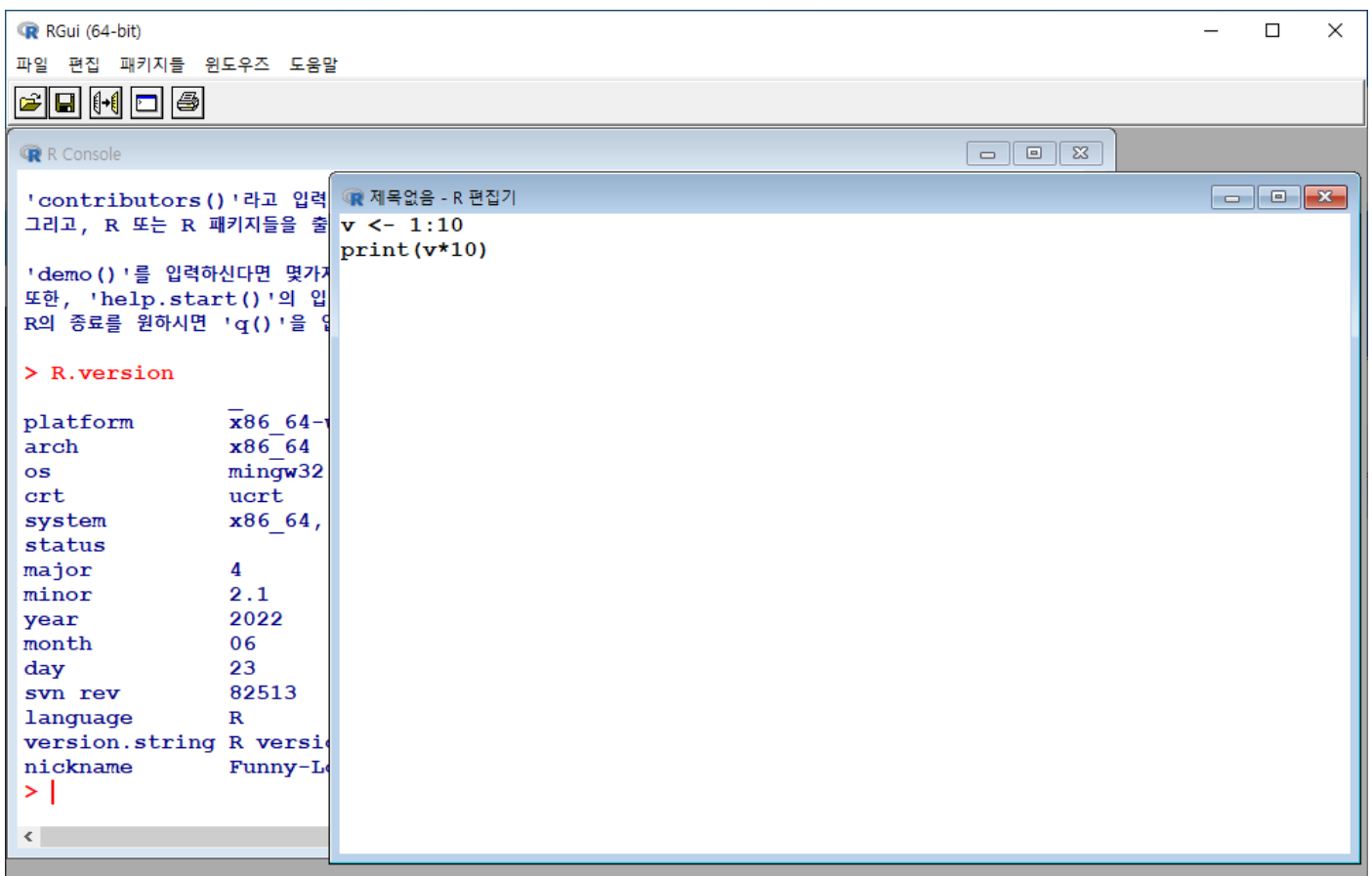
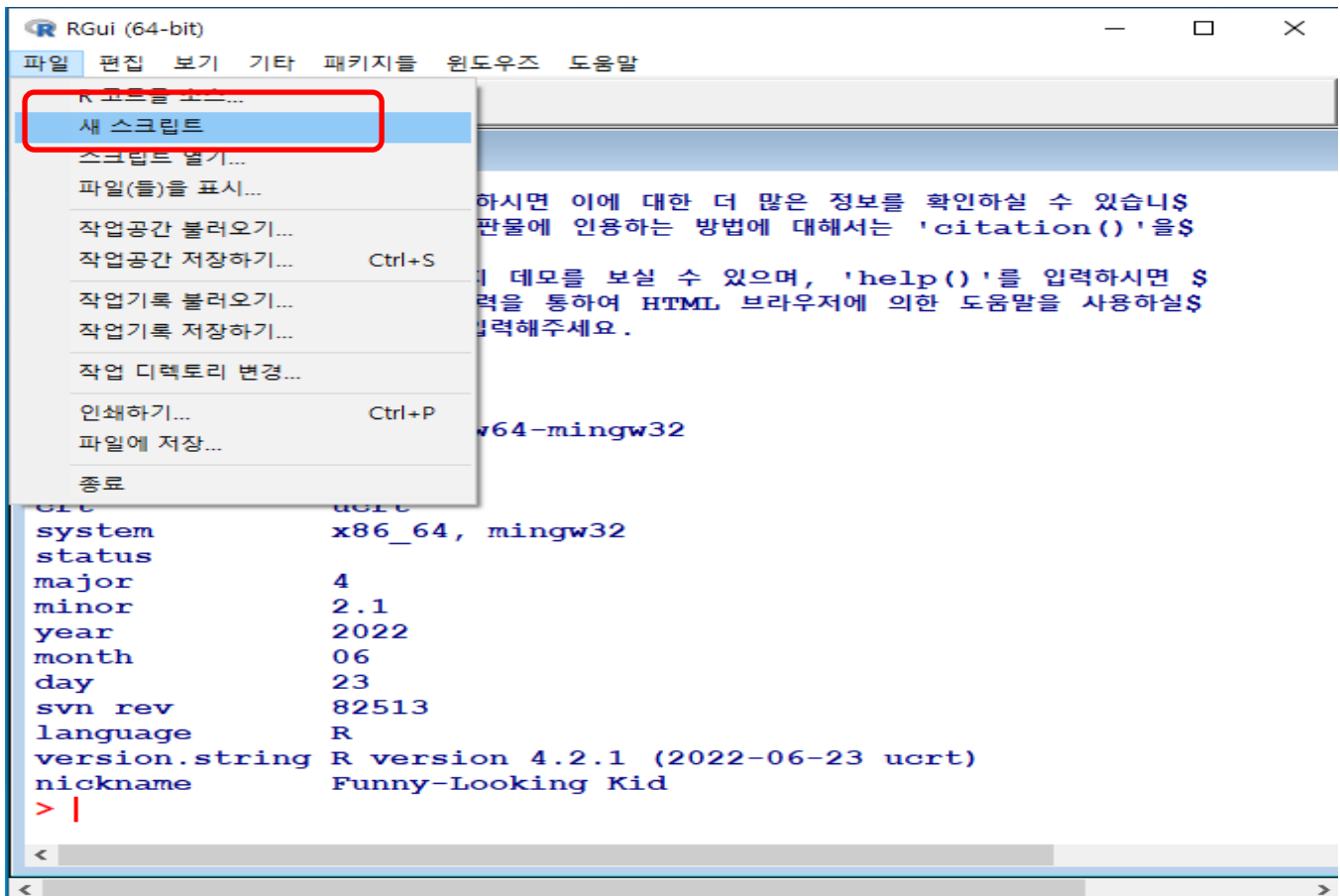
'contributors()'라고 입력하시면 이에 대한 더 많은 정보를 확인하실 수 있습니$
그리고, R 또는 R 패키지들을 출판물에 인용하는 방법에 대해서는 'citation()'을$

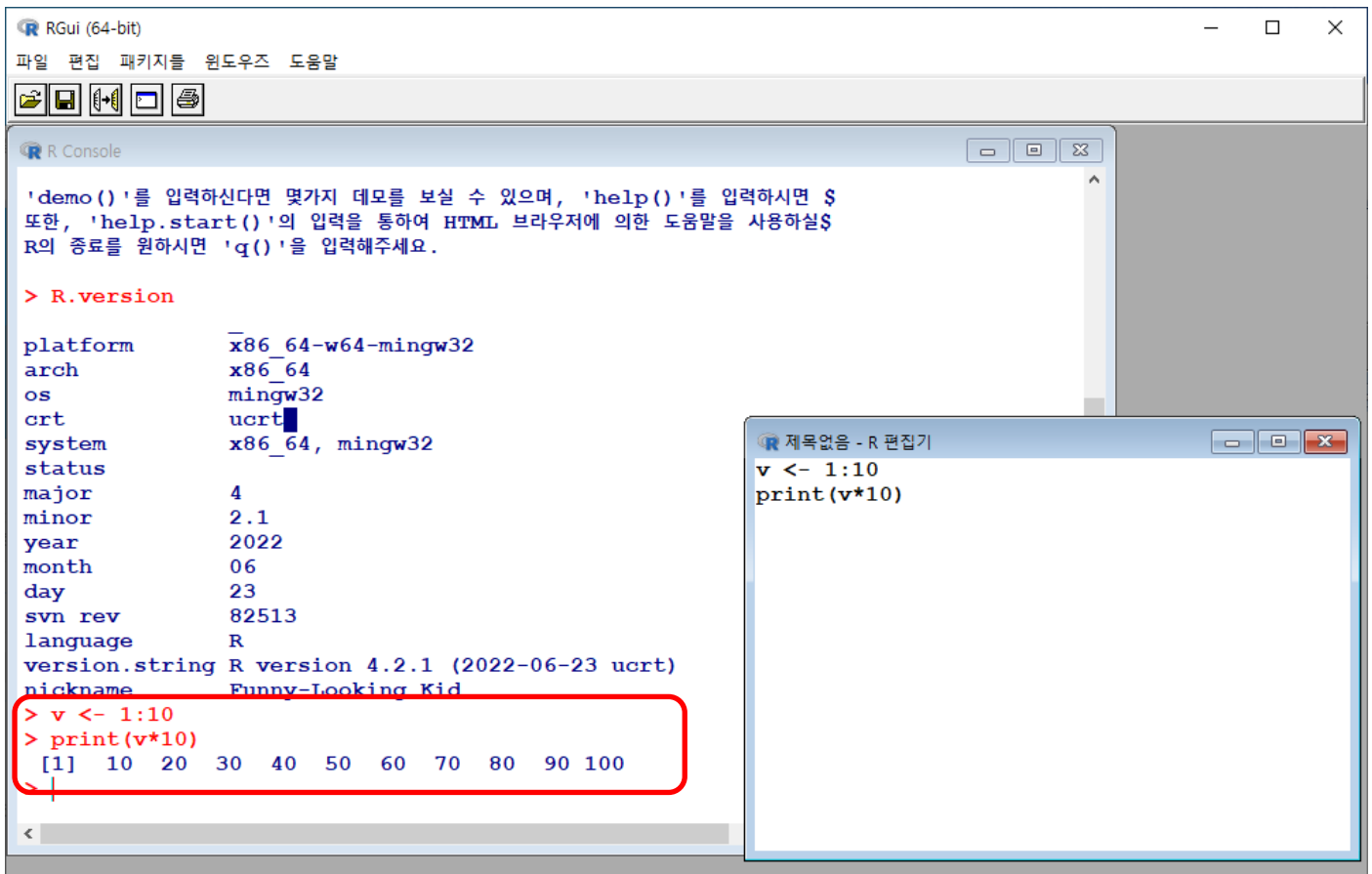
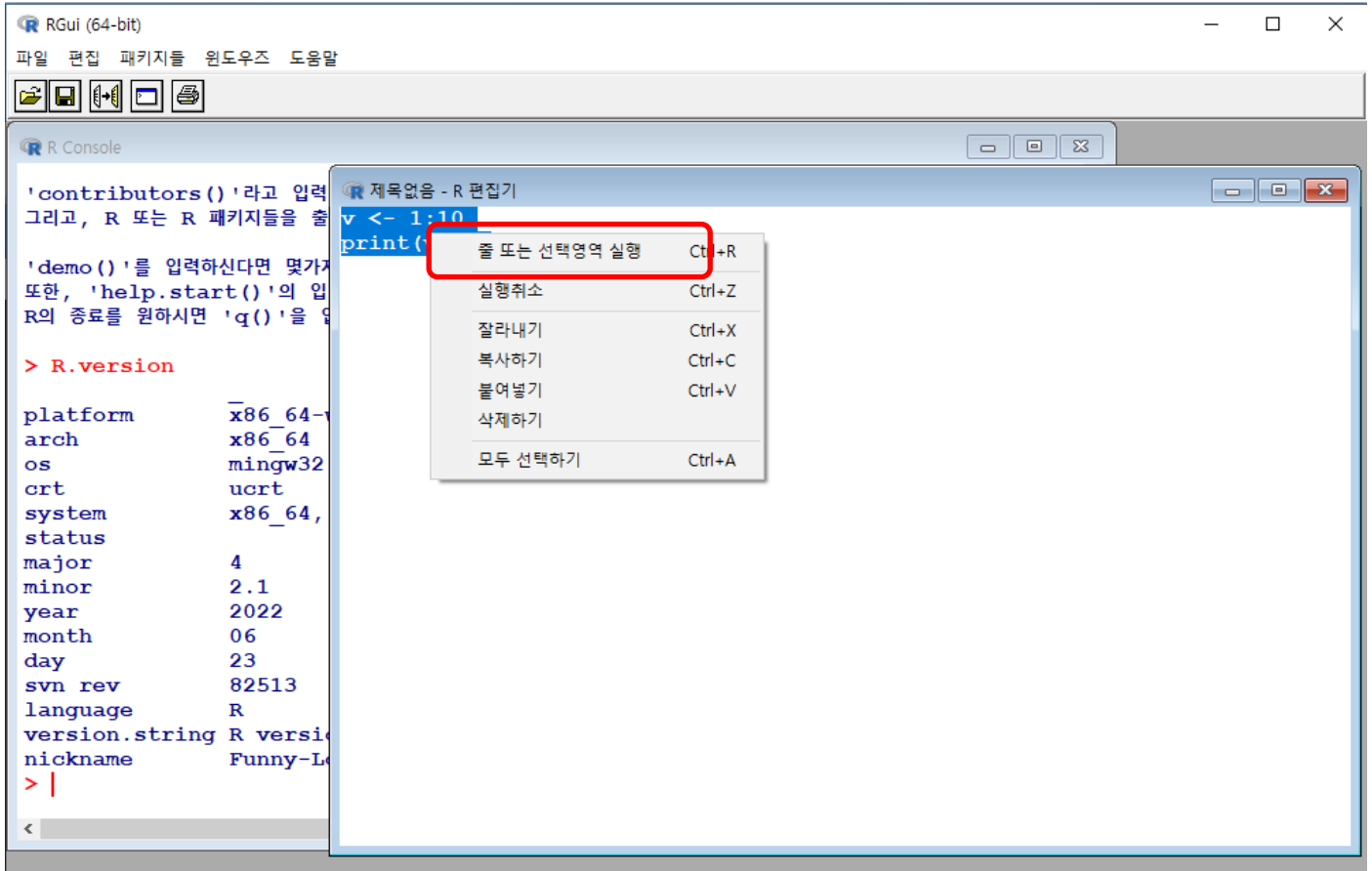
'demo()'를 입력하신다면 몇가지 데모를 보실 수 있으며, 'help()'를 입력하시면 $
또한, 'help.start()'의 입력을 통하여 HTML 브라우저에 의한 도움말을 사용하실$
R의 종료를 원하시면 'q()'을 입력해주세요.

> R.version

platform      x86_64-w64-mingw32
arch          x86_64
os            mingw32
crt            ucrt
system        x86_64, mingw32
status
major         4
minor         2.1
year          2022
month         06
day           23
svn rev       82513
language      R
version.string R version 4.2.1 (2022-06-23 ucrt)
nickname      Funny-Looking Kid

> |
```





RGui (64-bit)

파일 편집 패키지를 윈도우즈 도움말

R Console

'demo()'를 입력하신다면 몇가지 데모를 보실 수 있으며, 'help()'를 입력하시면 \$ 또한, 'help.start()'의 입력을 통하여 HTML 브라우저에 의한 도움말을 이용하실 수 있습니다. R의 종료는 원하시면 'q()'를 입력해주세요.

```
> R.version
```

```
platform      x86_64-w64-mingw32
arch           x86_64
os             mingw32
crt            ucrt
system        x86_64, mingw32
status
major          4
minor          2.1
year          2022
month          06
day            23
svn rev        82513
language       R
version.string  R version 4.2.1 (2022-06-23 ucrt)
nickname       Funny-Looking Kid
```

```
> v <- 1:10
> print(v*10)
[1] 10 20 30 40 50 60 70 80 90 100
> |
```

R 제독없음 - R 편집기

```
v <- 1:10
print(v*10)
plot(v*10)
```

줄 또는 선택영역 실행 Ctrl+R

실행취소 Ctrl+Z

잘라내기 Ctrl+X

복사하기 Ctrl+C

붙여넣기 Ctrl+V

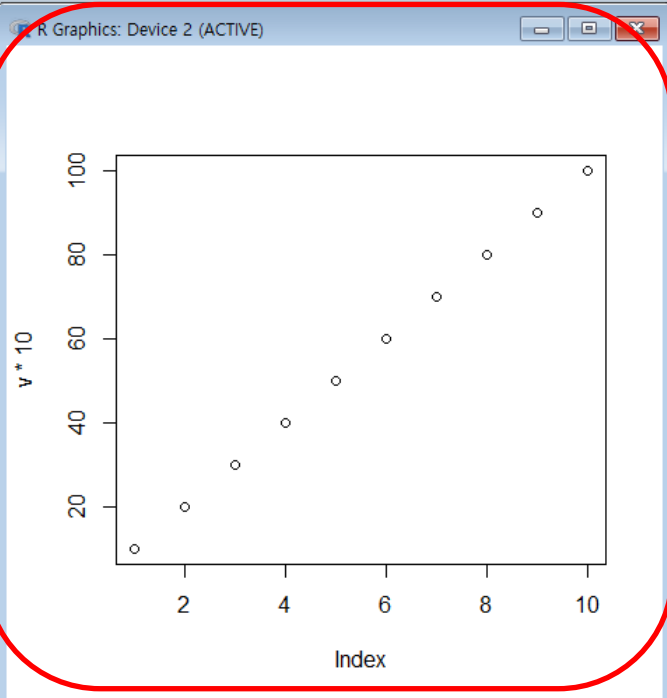
삭제하기

모두 선택하기 Ctrl+A

RGui (64-bit)

파일 작업기록 크기변경 윈도우즈

R Graphics: Device 2 (ACTIVE)



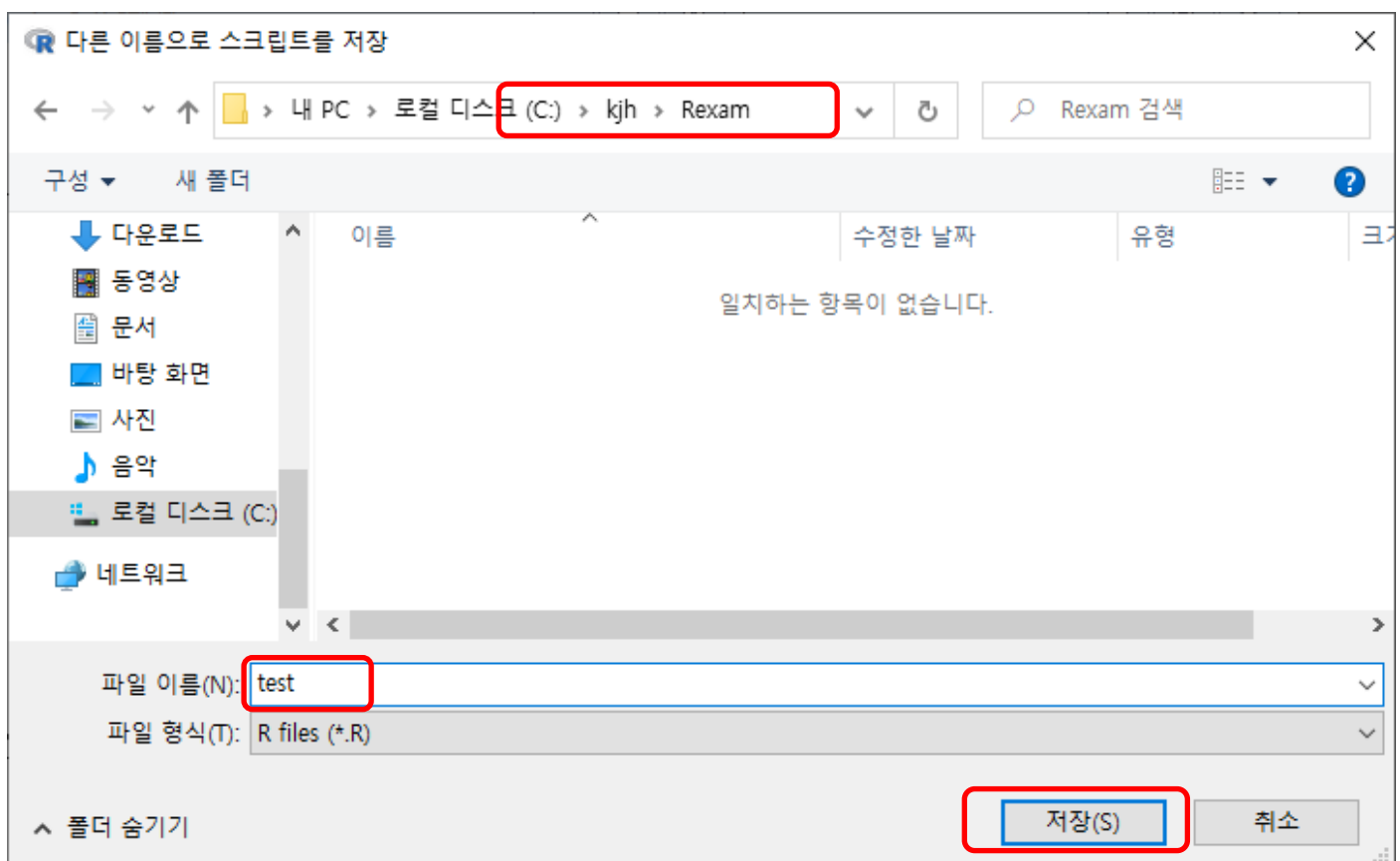
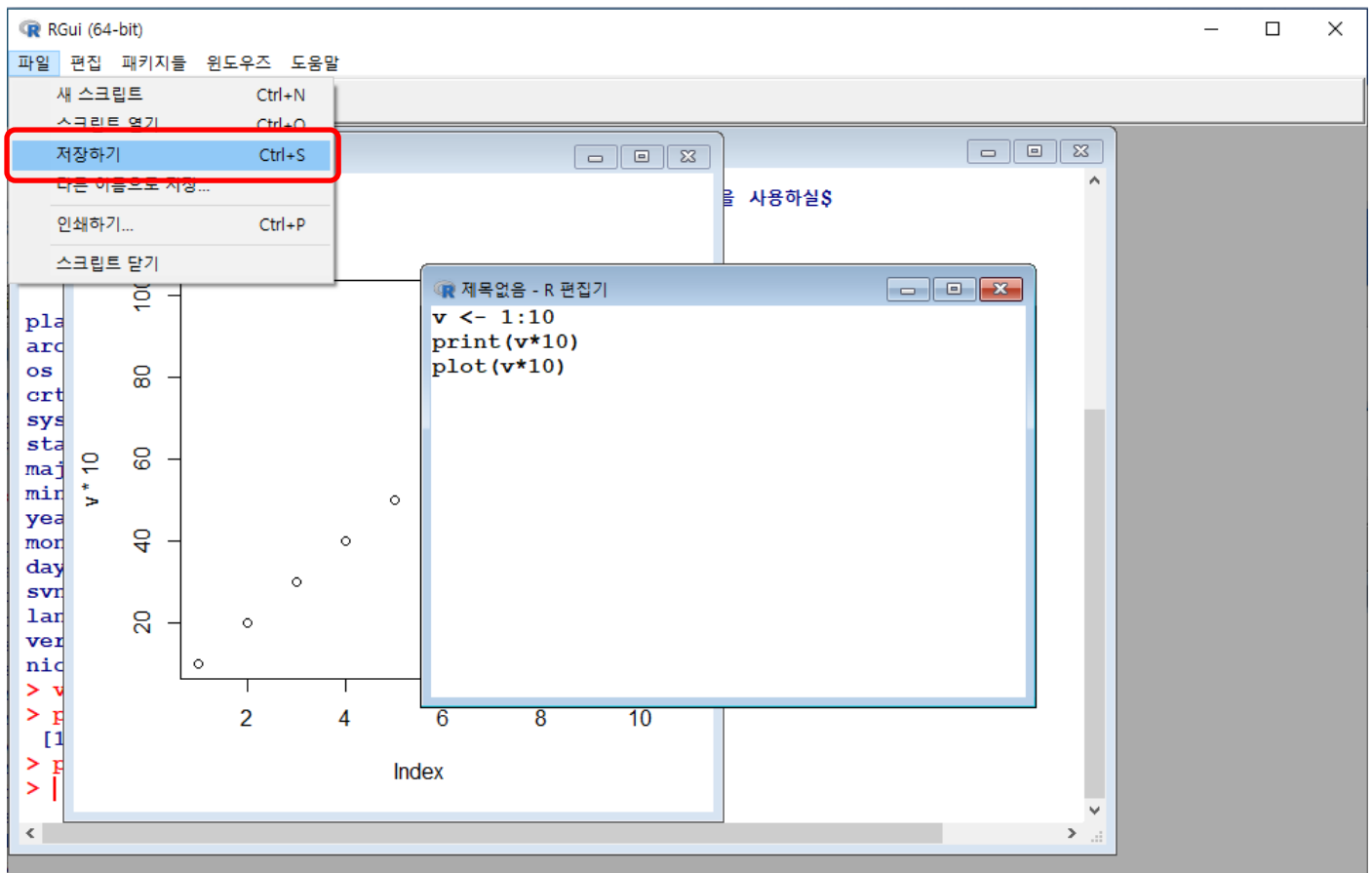
또한 R의

```
> R
```

```
pla
arc
os
crt
sys
sta
maj
min
yea
mon
day
svr
lan
ver
nic
> v
> |
```

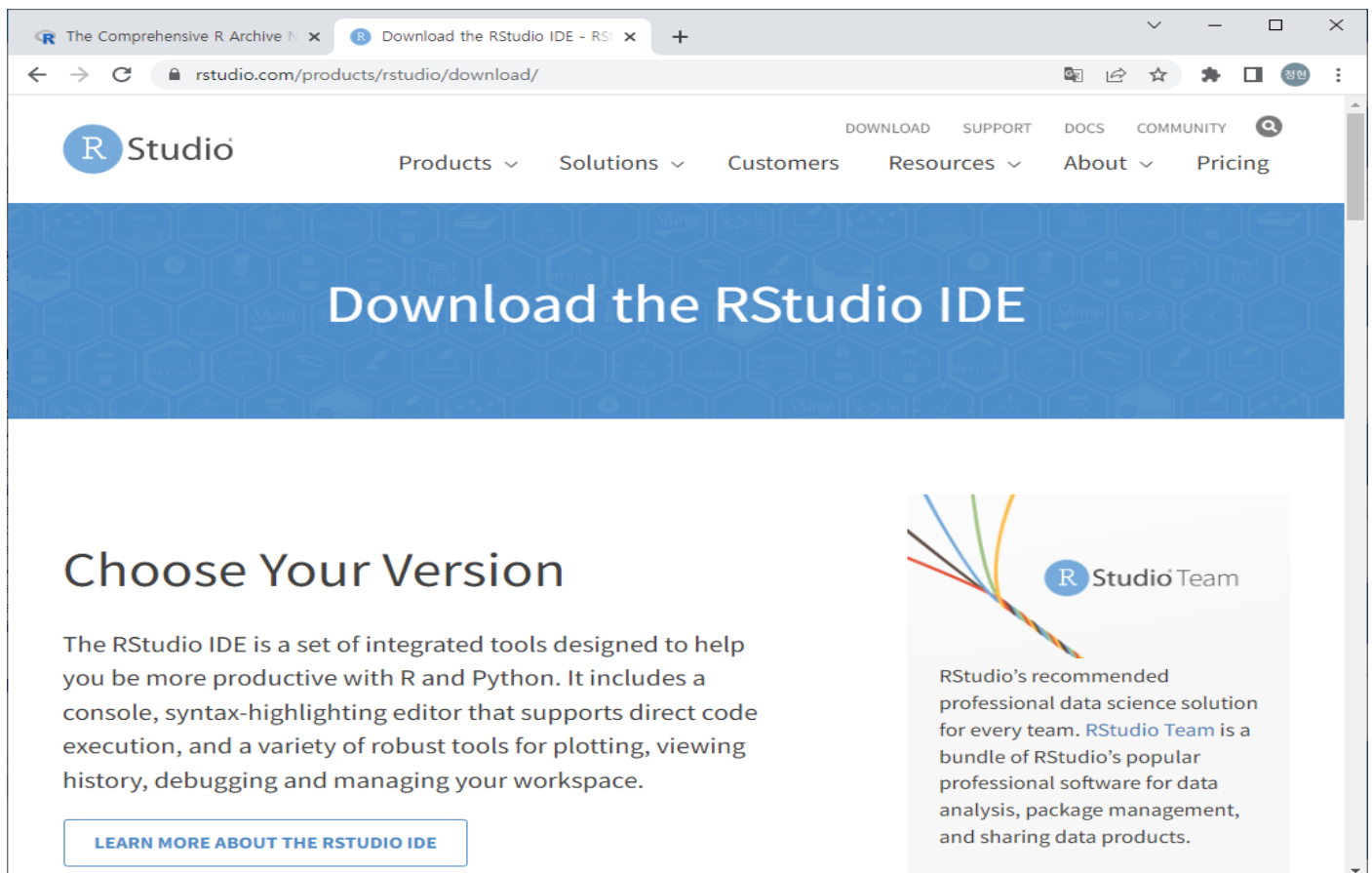
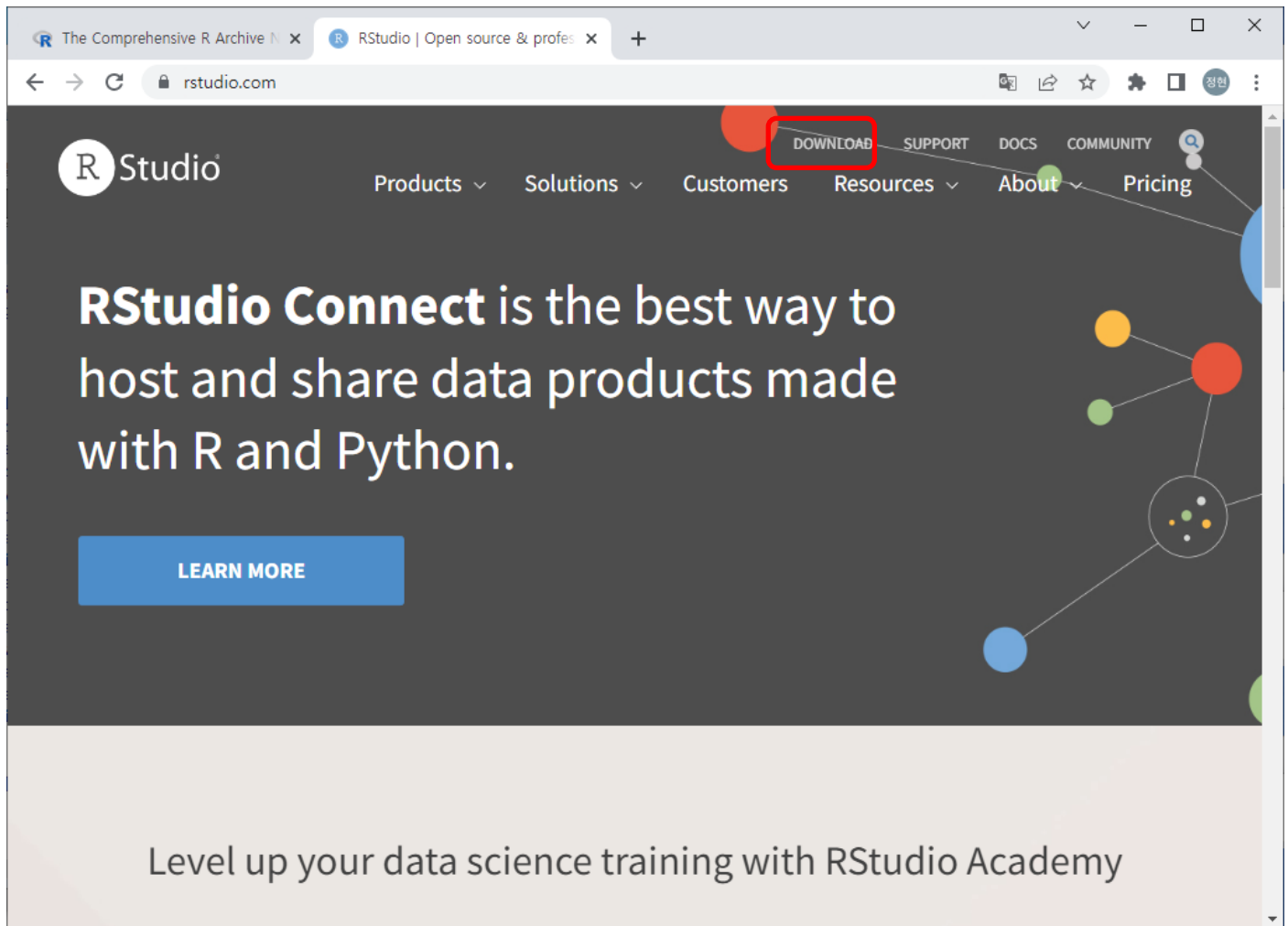
R 제독없음 - R 편집기

```
v <- 1:10
print(v*10)
plot(v*10)
```





[ R Studio 설치 ] <https://rstudio.com/>





The Comprehensive R Archive Net Download the RStudio IDE - RStudio

rstudio.com/products/rstudio/download/

RStudio Desktop Open Source License	RStudio Desktop Pro Commercial License	RStudio Server Open Source License	RStudio Workbench Commercial License
Free	\$995 /year	Free	\$4,975 /year (5 Named Users)
<a href="#">Download</a>	<a href="#">Buy</a>	<a href="#">Download</a>	<a href="#">Buy</a>
<a href="#">Learn more</a>	<a href="#">Learn more</a>	<a href="#">Learn more</a>	<a href="#">Evaluation   Learn more</a>
Integrated Tools for R	✓	✓	✓
Priority Support	✓		✓
Access via Web Browser		✓	✓
RStudio Professional Drivers	✓		✓
Connect to RStudio Workbench remotely	✓		
Enterprise Security			✓


The Comprehensive R Archive Net Download the RStudio IDE - RStudio

rstudio.com/products/rstudio/download/#download


## RStudio Desktop 2022.07.2+576

[Release Notes](#)

1. Install R. RStudio requires R 3.3.0+.
2. Download RStudio Desktop. Recommended for your system:

 **DOWNLOAD RSTUDIO FOR WINDOWS**  
2022.07.2+576 | 190.49MB

Requires Windows 10/11 (64-bit)



## All Installers

Linux users may need to [import RStudio's public code-signing key](#) prior to installation, depending on the operating system's security policy.

RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an [older version of RStudio](#).

OS	Download	Size	SHA-256
Windows 10/11	<a href="#">RStudio-2022.07.2-576.exe</a>	190.49 MB	b38bf925
macOS 10.15+	<a href="#">RStudio-2022.07.2-576.dmg</a>	224.49 MB	35028d02
Ubuntu 18+/Debian 10+	<a href="#">rstudio-2022.07.2-576-amd64.deb</a>	133.19 MB	b7d0c386

RStudio-2022.07.2-576.exe를 더블클릭하여 설치를 시작한다.

