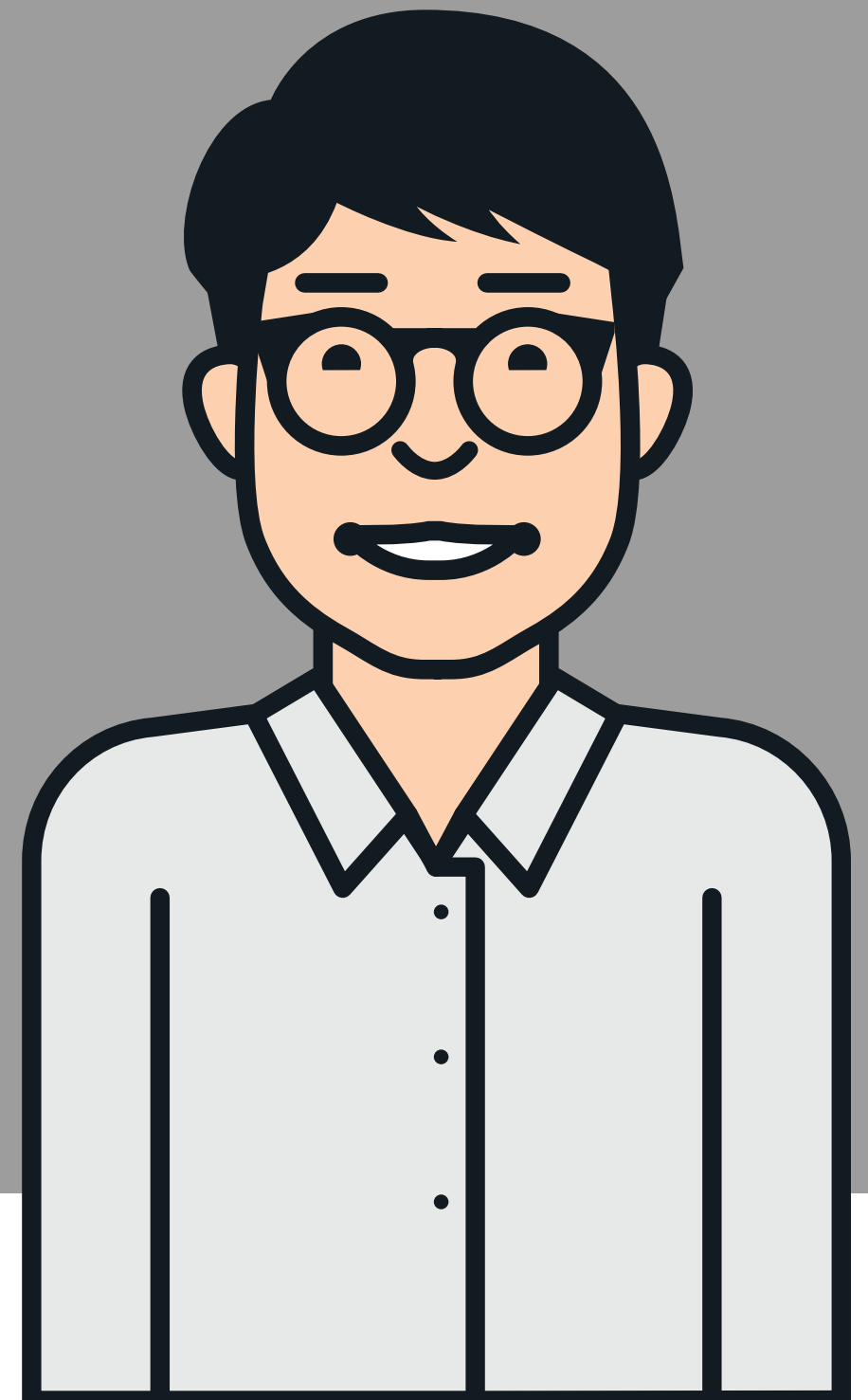


| 알쓸신데 (알아두면 쓸모있는 신비한 데이터 분석)

| EP03 : R & RStudio 설치

- ✧ R설치
- ✧ RStudio 설치
- ✧ 기본사항



I. R & RStudio설치

- ❖ 내 컴퓨터의 사양 확인
- ❖ R 설치
- ❖ RStudio 설치

R이란?

R의 특징과 장점은

- ✧ R은 통계 분석과 그래픽을 위한 언어이자 환경이라고 공식적으로 정의하고 있음
- ✧ 오픈소스라 비용X
- ✧ Python과 다르게 통계 분석과 시각화에 큰 장점을 가지고 있기 때문에 저널리즘 분야에서 많이 활용
- ✧ 수많은 패키지 활용 가능
- ✧ RStudio가 R이라고 생각하는 경우가 많은데 RStudio는 R언어를 효율적으로 쓰기 위한 에디터(도구)이다.

R을 설치하기 전에 확인해야 하는 것들

Windows 32-bit or 64-bit

컴퓨터에 대한 기본 정보 보기

Windows 버전

Windows 10 Pro

© 2017 Microsoft Corporation. All rights reserved.

시스템

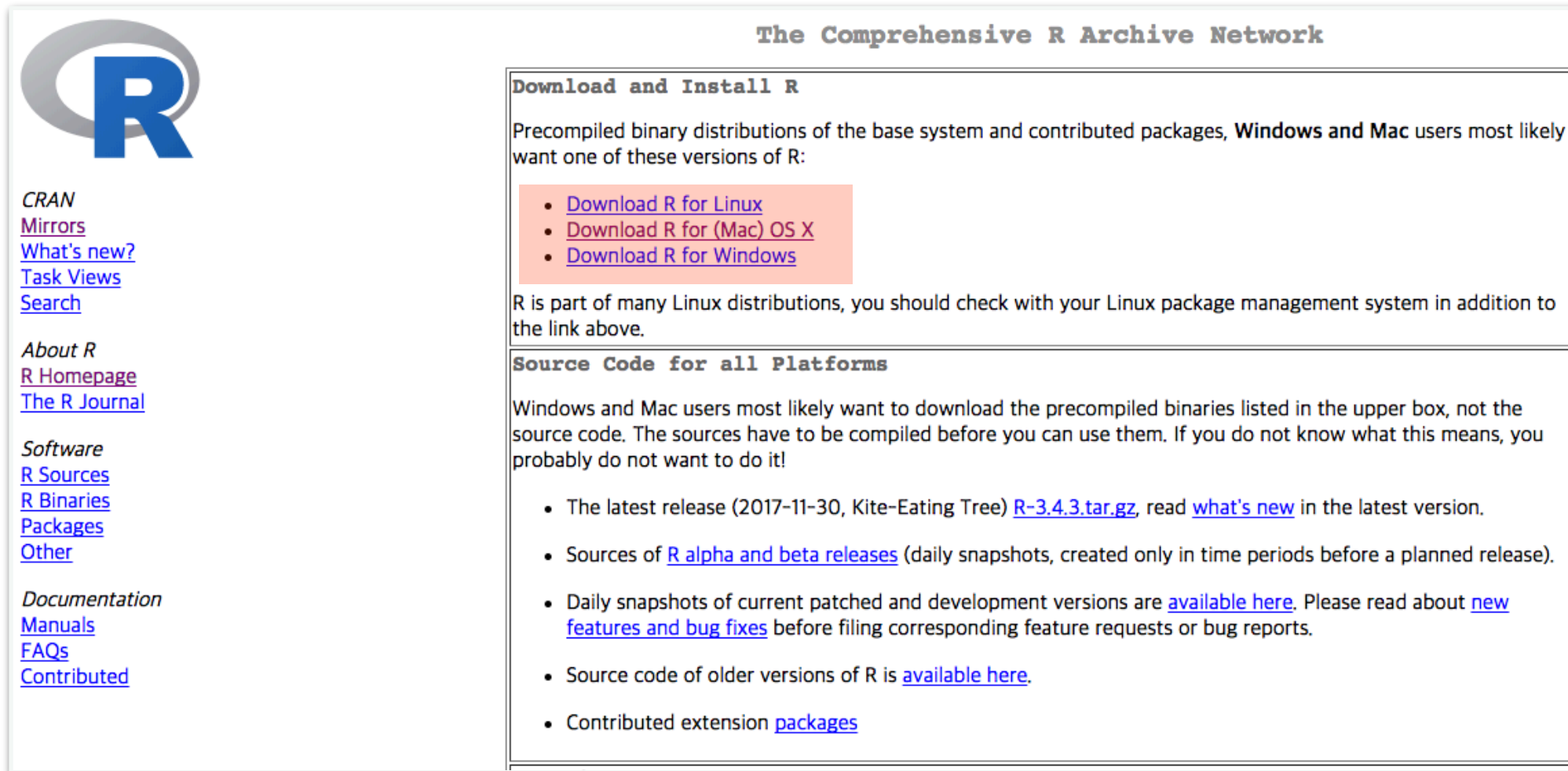
프로세서:	Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz 2.70 GHz
설치된 메모리(RAM):	8.00GB
시스템 종류:	64비트 운영 체제, x64 기반 프로세서
펜 및 터치:	이 디스플레이에 사용할 수 있는 펜 또는 터치식 입력이 없습니다.

- ✧ 내 PC 우클릭 후에 속성 정보를 통해 확인할 수 있음
- ✧ 보통은 64비트 운영 체제, 하지만 32비트라면 R설치 파일도 달라지기 때문에 꼭 확인
- ✧ Mac은 상관 없음

본격적으로 R을 설치해보자

cran.r-project.org

<https://cran.r-project.org/>



The screenshot shows the CRAN website with the R logo on the left. The main content area is titled "The Comprehensive R Archive Network". It has two main sections: "Download and Install R" and "Source Code for all Platforms".

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](#)
- [Download R for \(Mac\) OS X](#)
- [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 (2017-11-30, Kite-Eating Tree) [R-3.4.3.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).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Left sidebar links:

- CRAN
- [Mirrors](#)
- [What's new?](#)
- [Task Views](#)
- [Search](#)
- About R
- [R Homepage](#)
- [The R Journal](#)
- Software
- [R Sources](#)
- [R Binaries](#)
- [Packages](#)
- [Other](#)
- Documentation
- [Manuals](#)
- [FAQs](#)
- [Contributed](#)

- ❖ OS에 맞는 경로로 설치를 하면 된다
- ❖ 대부분 Windows 사용자 -> Download R for Windows

본격적으로 R을 설치해보자

cran.r-project.org

R for Windows

Subdirectories:

[base](#)

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

[contrib](#)

Binaries of contributed CRAN packages (for R \geq 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

[old contrib](#)

Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 2.13.x; managed by Uwe Ligges).

[Rtools](#)

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.

❖ Install R for the first time을 통해 설치

본격적으로 R을 설치해보자

cran.r-project.org

R-3.4.3 for Windows (32/64 bit)

[Download R 3.4.3 for Windows](#) (62 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

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. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

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

Other builds

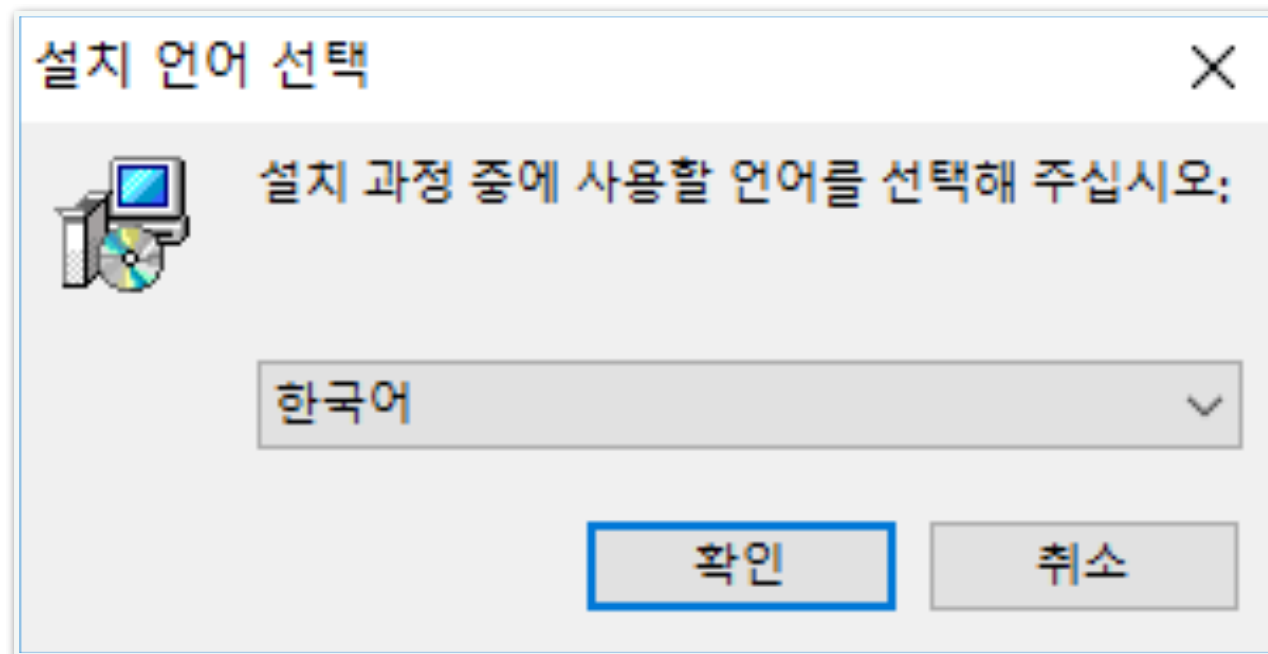
- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is <http://<CRAN MIRROR>/bin/windows/base/release.htm>.

❖ 최신 버전은 R 3.4.3 for Windows, 다운로드 클릭

본격적으로 R을 설치해보자

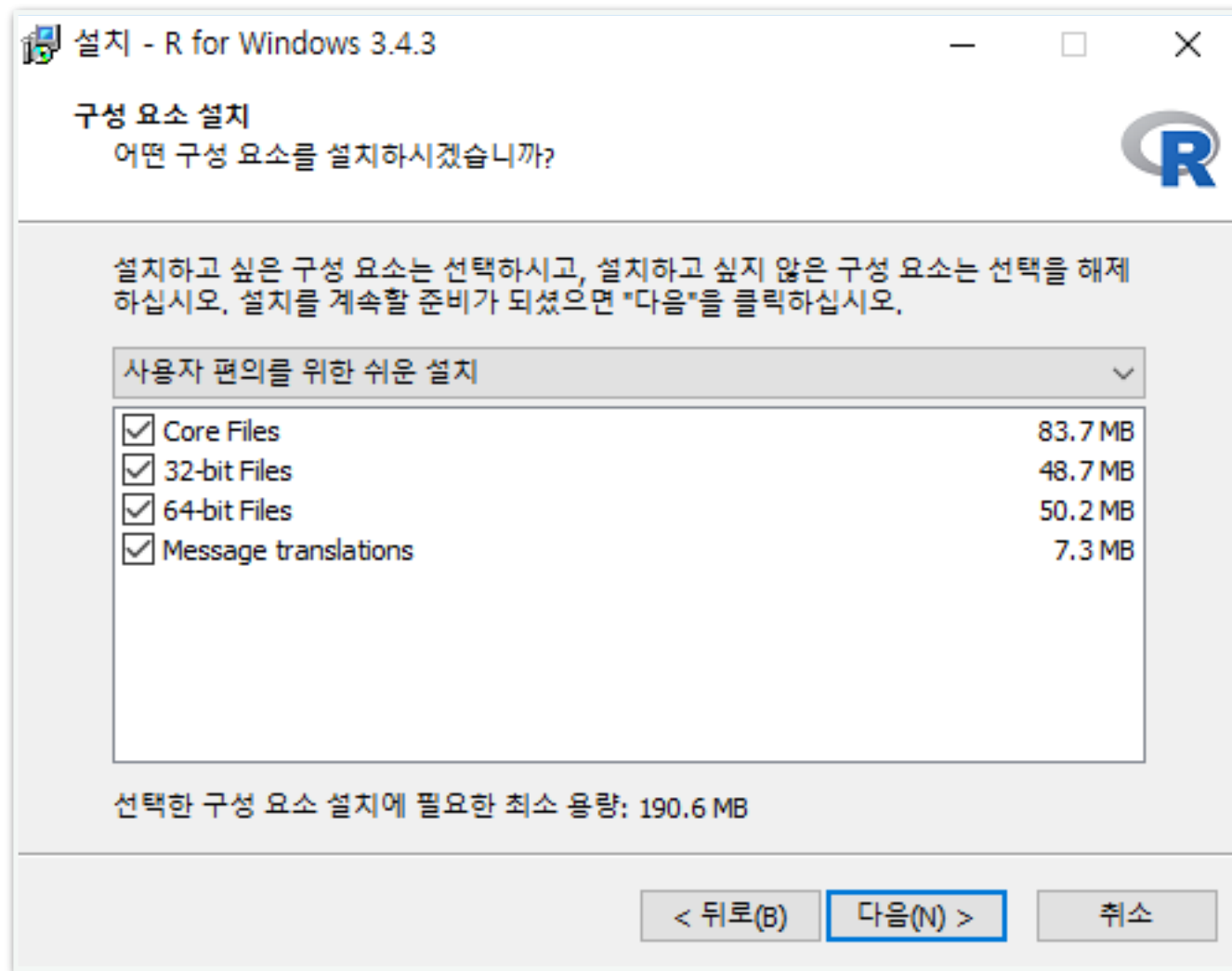
cran.r-project.org



* 설치 언어는 한국어!

본격적으로 R을 설치해보자

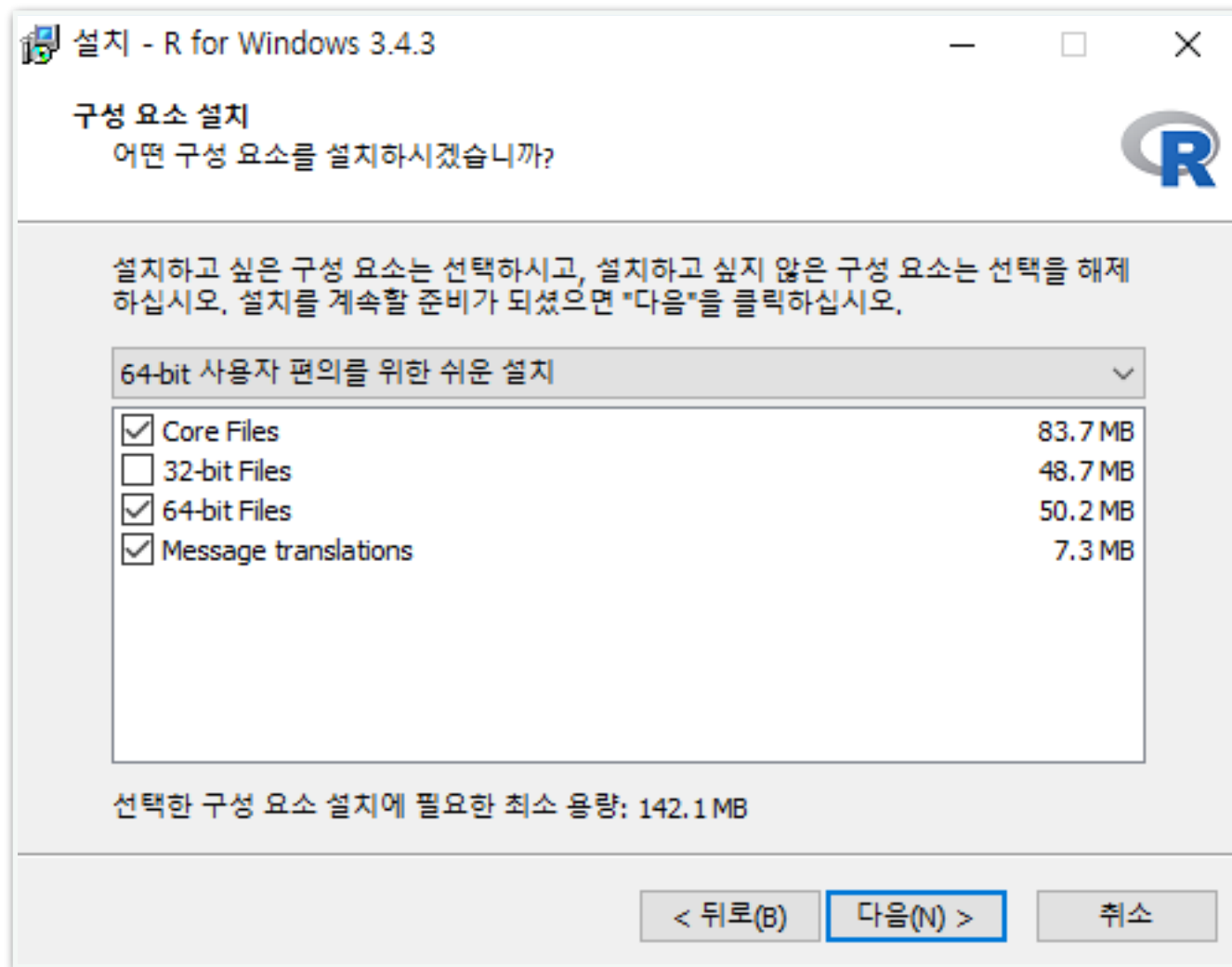
cran.r-project.org



✧ 버전에 맞게 선택해주자. 32비트를 굳이 체크하지 않아도 된다

본격적으로 R을 설치해보자

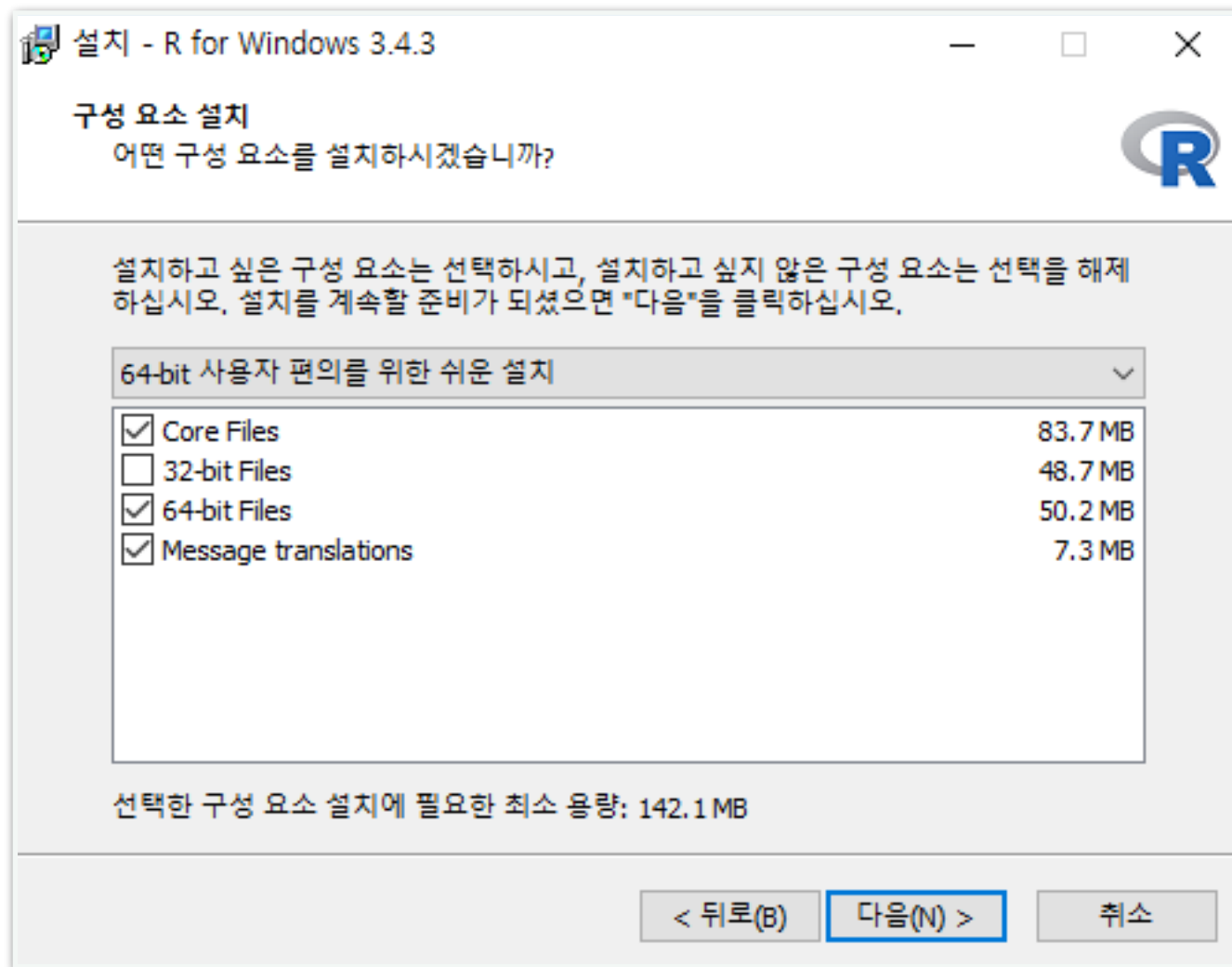
cran.r-project.org



✧ 64비트 사용자 편의를 위한 쉬운 설치를 선택해도 된다

본격적으로 R을 설치해보자

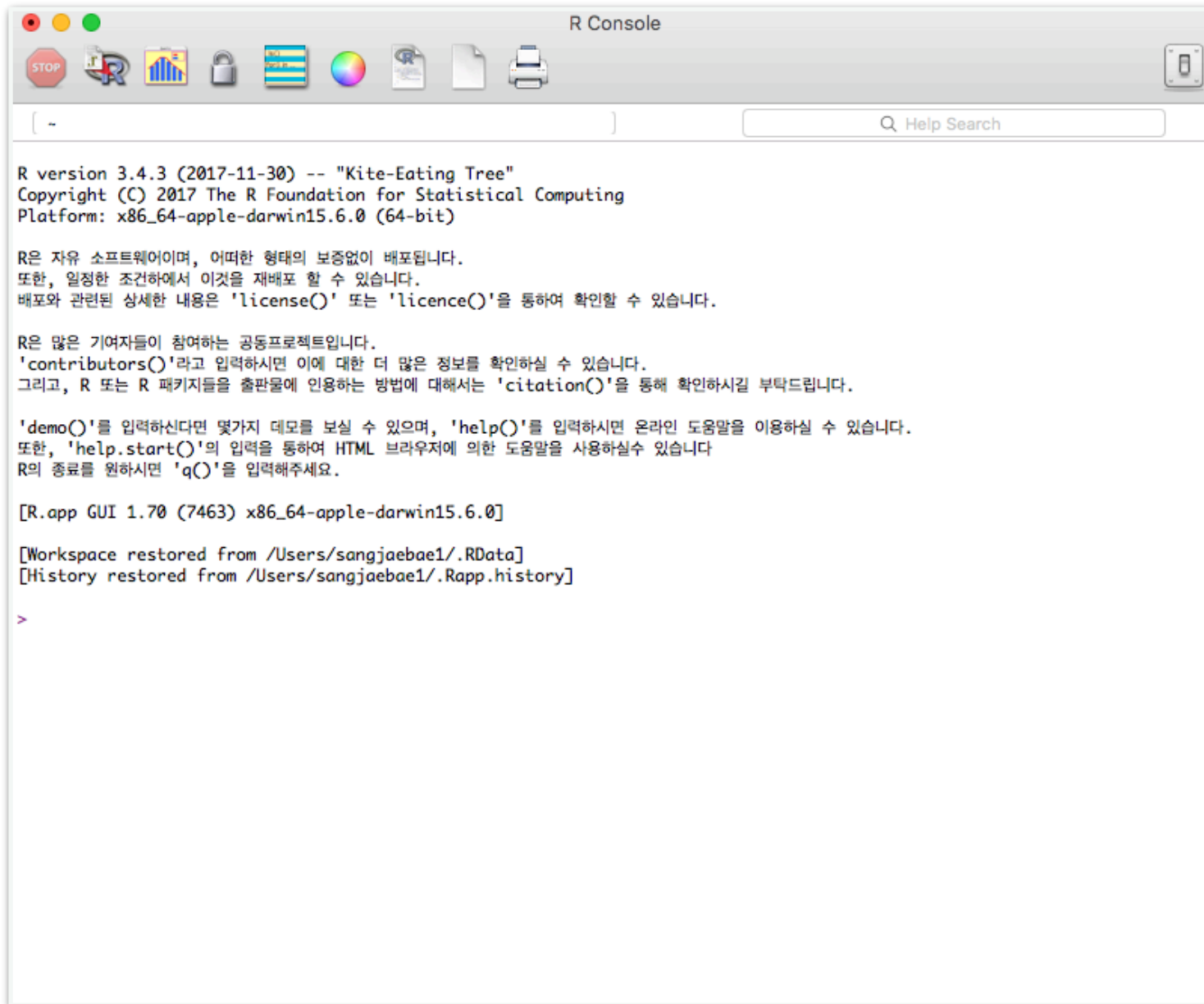
cran.r-project.org



✧ 64비트 사용자 편의를 위한 쉬운 설치를 선택해도 된다

본격적으로 R을 설치해보자

cran.r-project.org



```
R Console

R version 3.4.3 (2017-11-30) -- "Kite-Eating Tree"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin15.6.0 (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 있습니다.

R은 많은 기여자들이 참여하는 공동프로젝트입니다.
'contributors()'라고 입력하시면 이에 대한 더 많은 정보를 확인할 수 있습니다.
그리고, R 또는 R 패키지들을 출판물에 인용하는 방법에 대해서는 'citation()'을 통해 확인하시길 부탁드립니다.

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

[R.app GUI 1.70 (7463) x86_64-apple-darwin15.6.0]

[Workspace restored from /Users/sangjaebae1/.RData]
[History restored from /Users/sangjaebae1/.Rapp.history]

>
```

❖ R을 실행시키면 나오는 인터페이스

RStudio는 어떻게?

<https://www.rstudio.com/products/rstudio/download/>

RStudio Desktop 1.1.383 — Release Notes

RStudio requires R 3.0.1+. If you don't already have R, download it [here](#).

Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 1.1.383 - Windows Vista/7/8/10	85.8 MB	2017-10-09	450755b853dcdbaa60be641552ef3c0f
RStudio 1.1.383 - Mac OS X 10.6+ (64-bit)	74.5 MB	2017-10-09	ec121f9abc0b817ddcca85d71a5988e3
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	89.2 MB	2017-10-09	9588bce746f2a5e8da299c4a8b35d4fa
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	97.4 MB	2017-10-09	3eede231b7206a7eebbf090f4991358f
RStudio 1.1.383 - Ubuntu 16.04+/Debian 9+ (64-bit)	65 MB	2017-10-09	fccec7cbf773c3464ea6cbb91fc2ec28
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	88.1 MB	2017-10-09	36b4d00c6ec5c6a39194287b468ceb44
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	90.6 MB	2017-10-09	ae400e2504ec9c5862343c24fe3cd61d

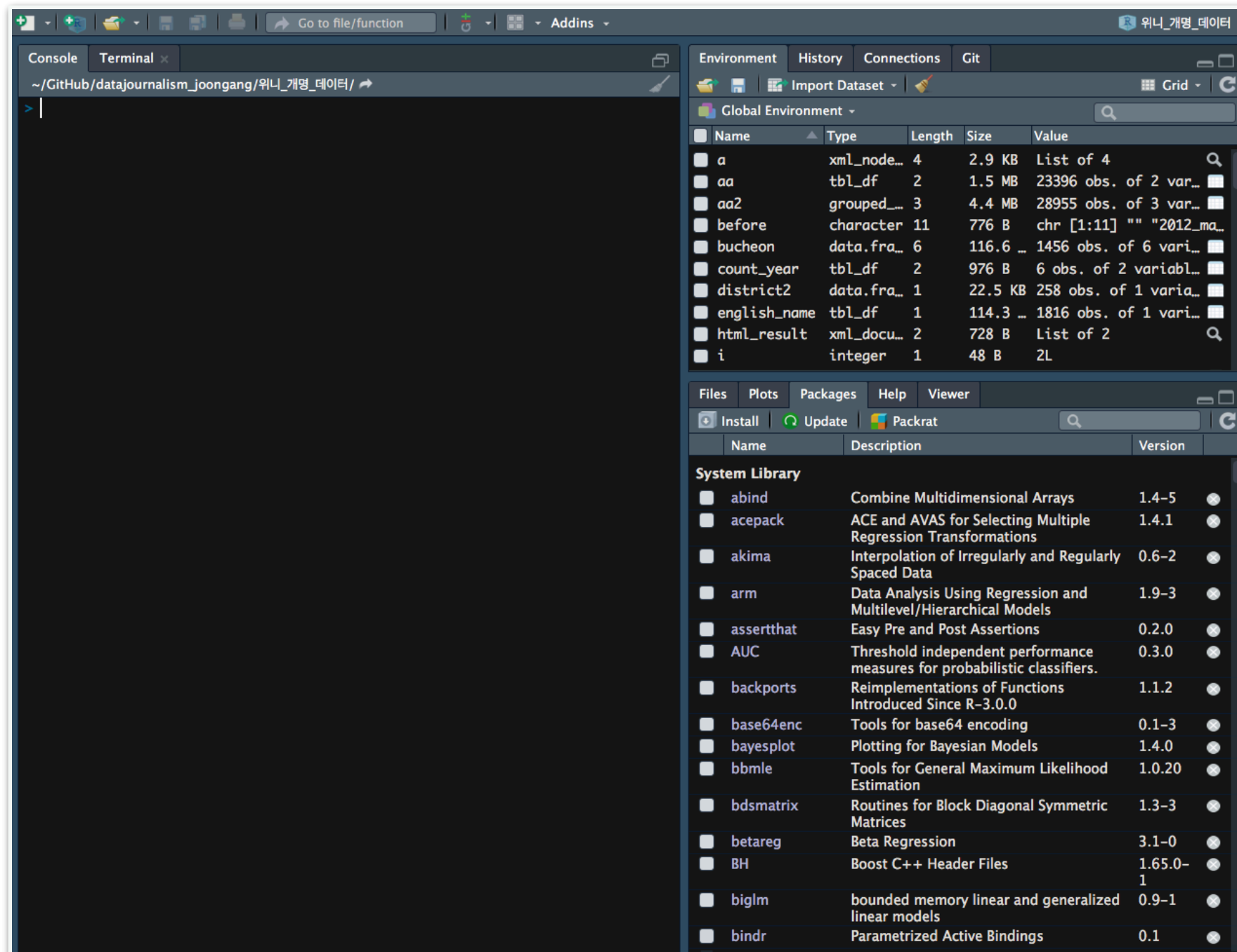
Zip/Tarballs

Zip/tar archives	Size	Date	MD5
RStudio 1.1.383 - Windows Vista/7/8/10	122.9 MB	2017-10-09	abfc9ac40cbc59fc141ede7ef33000be
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	90 MB	2017-10-09	b4277c6422a51d05376f6ab3c0f6adc8
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	98.3 MB	2017-10-09	370f6b565b8371f0adff943cef56ba44
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	88.8 MB	2017-10-09	4e81a3242bc3e672061c74e388ec902b
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	91.4 MB	2017-10-09	alce682f868fd7cfc7b4a6011d17e43d

- ❖ 운영 체제에 맞는 인스톨러를 선택해주세요
- ❖ RStudio는 설치에 큰 어려움은 없습니다

RStudio는 어떻게?

<https://www.rstudio.com/products/rstudio/download/>



❖ RStudio 메인화면

bae.yeowoon@joongang.co.kr

010.6524.5112 | 배여운

