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Chapter 1

**R**



# 시작하기



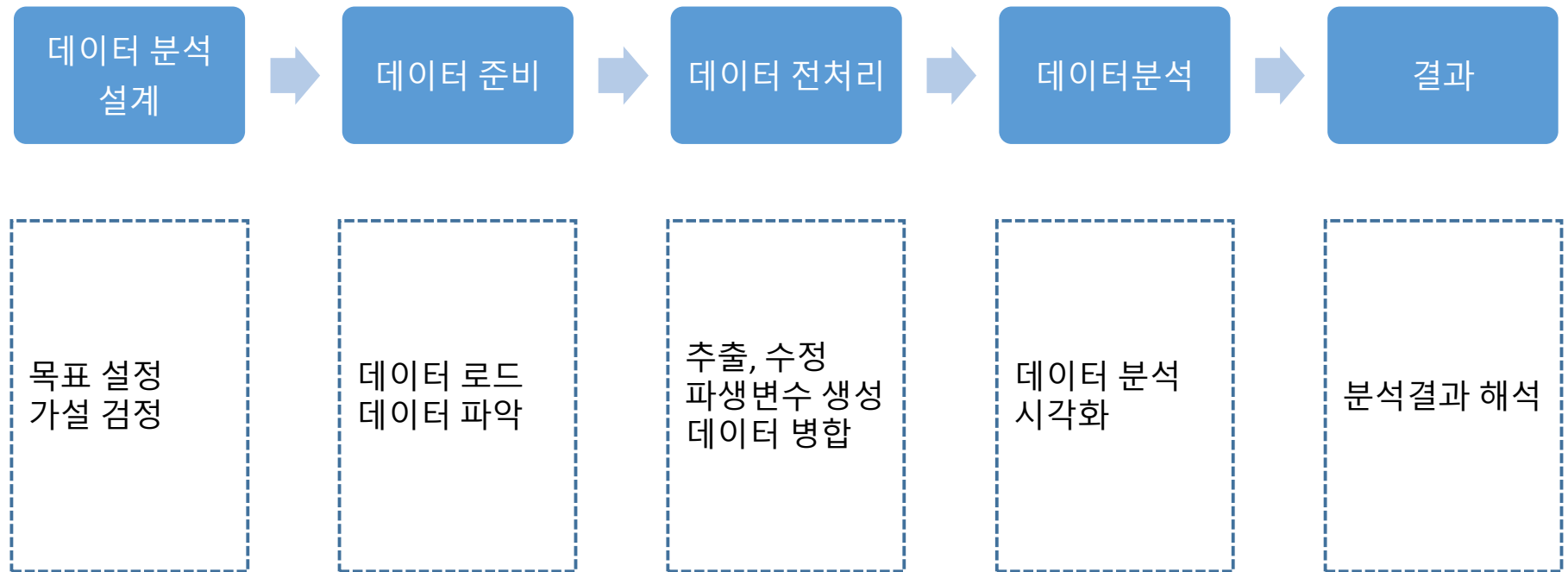
## 장점

- 진입 장벽이 낮은 언어
- 오픈 소스 기반으로 무료로 사용이가능
- 방대한 양의 package를 제공
- 데이터 분석 소프트웨어 1위

## 단점

- 분석 특화 언어로 IT서비스에 접목이 어려움
- error에 대한내용을 스스로 해결해야하는 문제

# 데이터 분석의 흐름

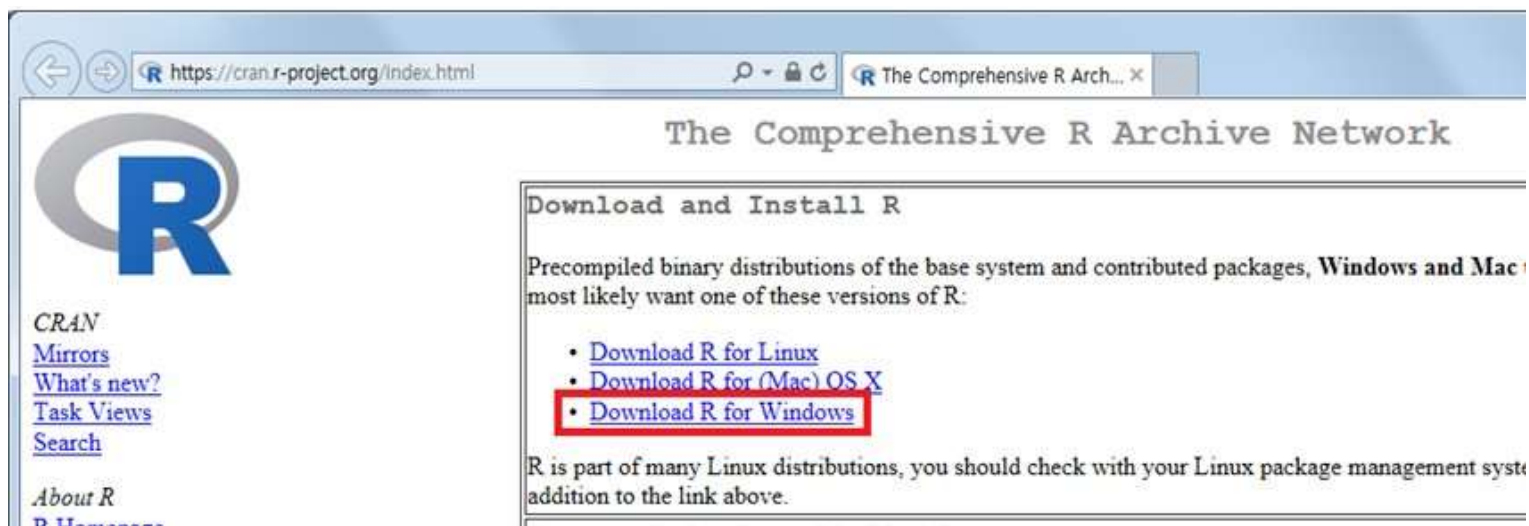


# 시작하기



R다운로드

<http://cran.rstudio.com/>

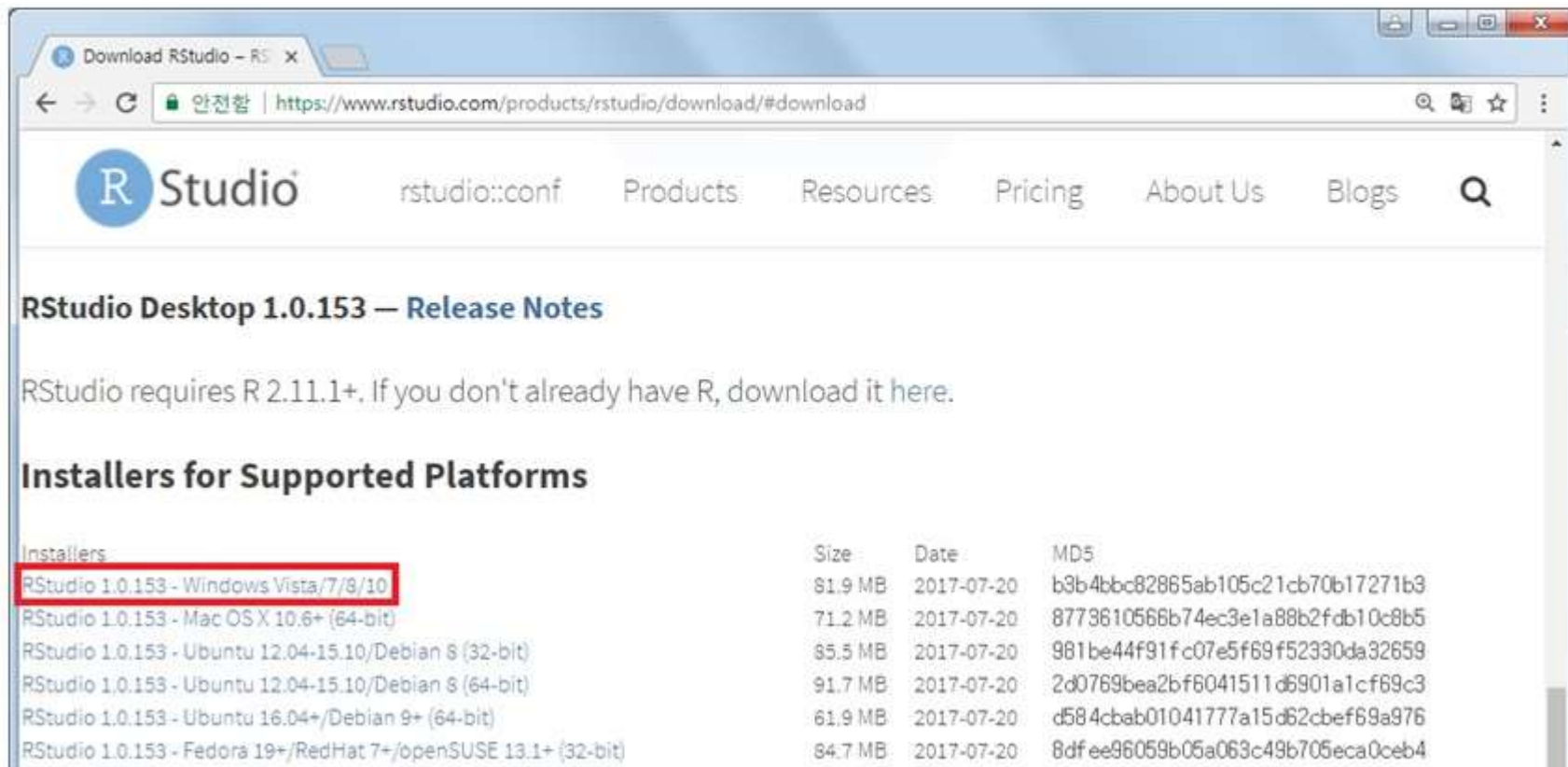


# 시작하기



R스튜디오 다운로드

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

A screenshot of a web browser displaying the RStudio download page. The browser's address bar shows the URL 'https://www.rstudio.com/products/rstudio/download/#download'. The page header includes the RStudio logo and navigation links: 'rstudio::conf', 'Products', 'Resources', 'Pricing', 'About Us', and 'Blogs'. The main content area is titled 'RStudio Desktop 1.0.153 — Release Notes' and contains the text 'RStudio requires R 2.11.1+. If you don't already have R, download it here.' Below this is a section titled 'Installers for Supported Platforms' which contains a table of download links, sizes, dates, and MD5 hashes. The first row of the table, 'RStudio 1.0.153 - Windows Vista/7/8/10', is highlighted with a red rectangular box.

Download RStudio - RStudio

← → ↻ 🔒 안전함 | <https://www.rstudio.com/products/rstudio/download/#download>

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## RStudio Desktop 1.0.153 — Release Notes

RStudio requires R 2.11.1+. If you don't already have R, download it [here](#).

### Installers for Supported Platforms

Installers	Size	Date	MD5
<b>RStudio 1.0.153 - Windows Vista/7/8/10</b>	81.9 MB	2017-07-20	b3b4bbc82865ab105c21cb70b17271b3
RStudio 1.0.153 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-07-20	8773610566b74ec3e1a88b2fdb10c8b5
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-07-20	981be44f91fc07e5f69f52330da32659
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	91.7 MB	2017-07-20	2d0769bea2bf6041511d6901a1cf69c3
RStudio 1.0.153 - Ubuntu 16.04+/Debian 9+ (64-bit)	61.9 MB	2017-07-20	d584cbab01041777a15d62cbef69a976
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-07-20	8df ee96059b05a063c49b705eca0ceb4

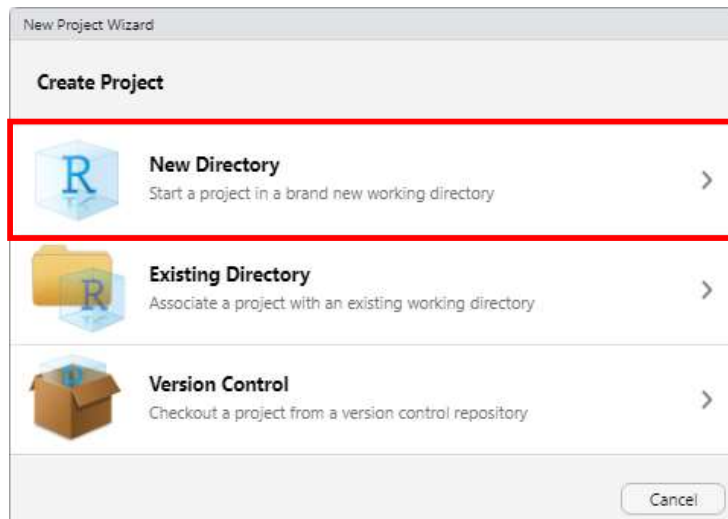
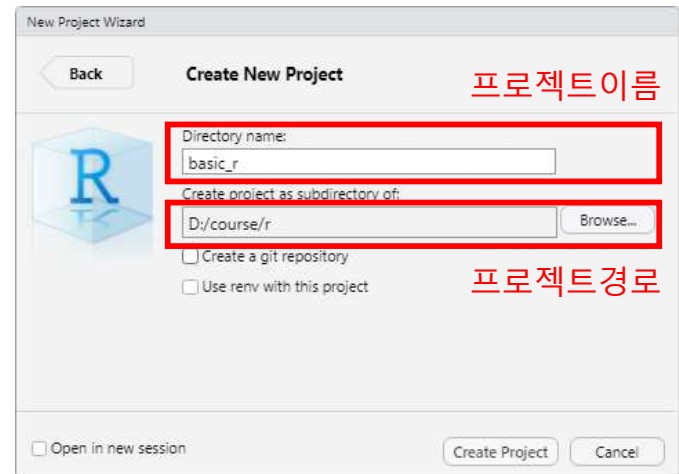
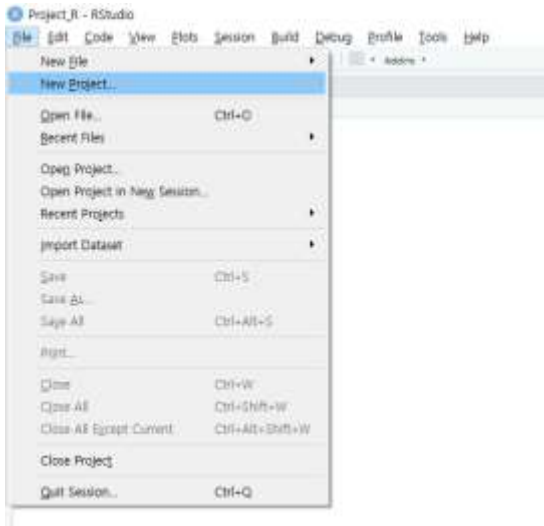
# 시작하기

The image shows the RStudio interface with four panes highlighted by red boxes and labeled with red text:

- Source:** The top-left pane showing R code for reading CSV files. The code includes comments in Korean and R functions like `read.csv()` and `colSums()`.
- Environment:** The top-right pane showing the current environment. It displays a data frame named `income` with 4 observations and 2 variables.
- Console:** The bottom-left pane showing the output of the R code executed in the Source pane. It displays the structure of the `income` data frame and the results of `colSums()` and `view()` functions.
- Help:** The bottom-right pane showing the R documentation for the `read.table()` function. It includes a description and the function's usage.

# 시작하기

## 프로젝트 생성



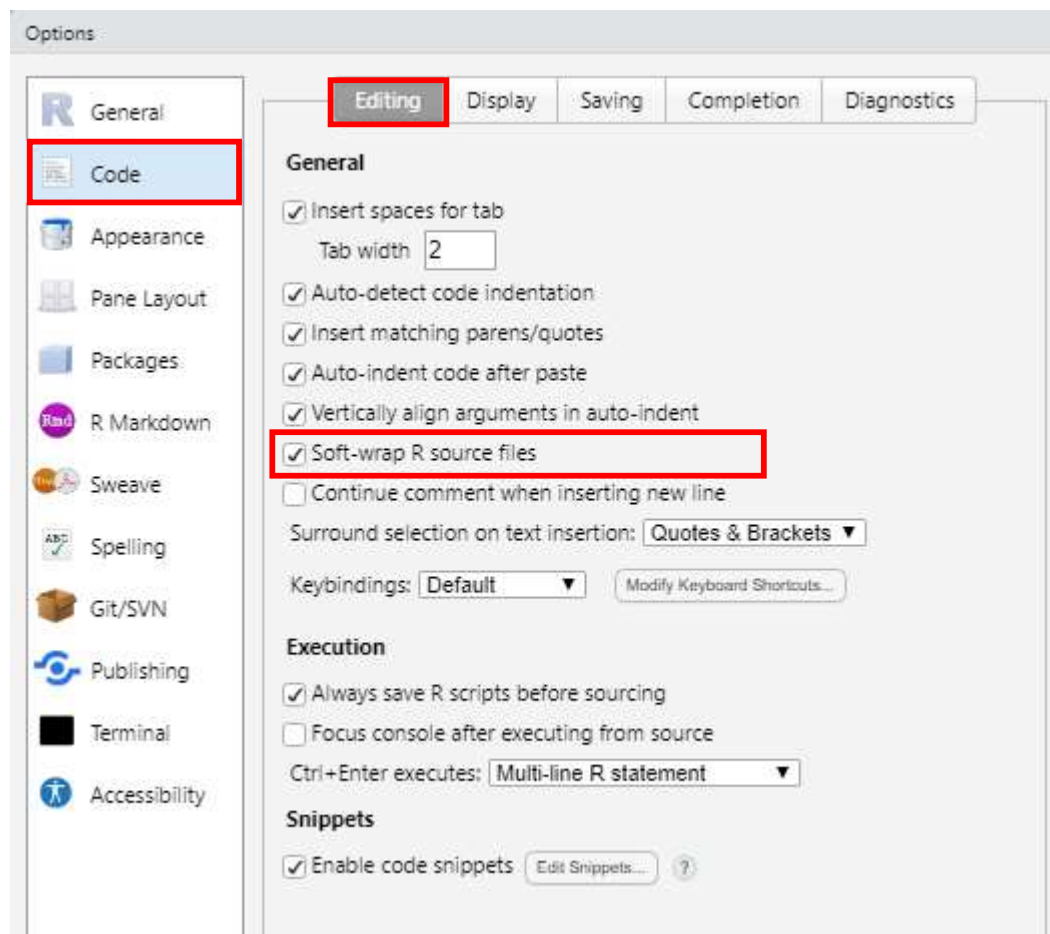
New Directory – 새로운 프로젝트 생성  
Existing Directory – 기존 프로젝트를 열 때  
Version Control – 깃허브등을 이용할 때

# 시작하기

자동줄바꿈

tools ->

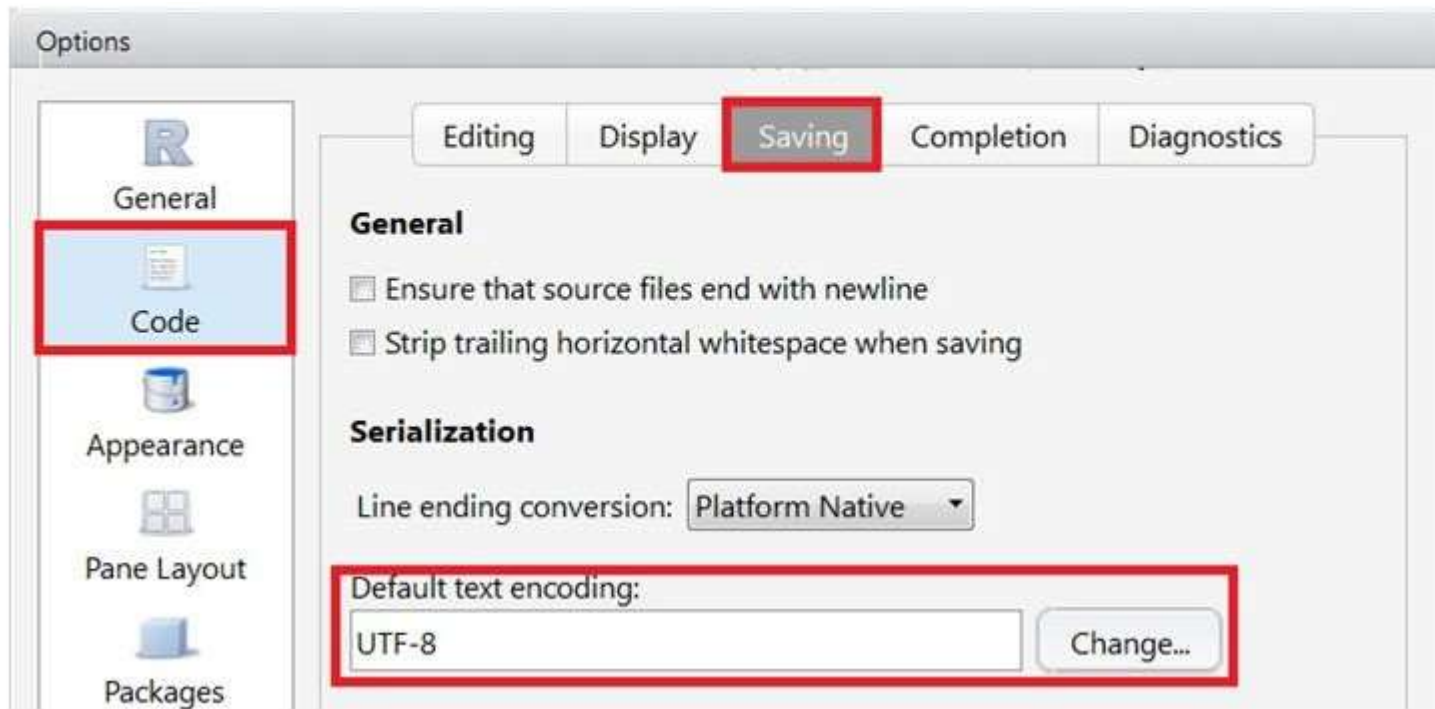
global options





# 시작하기

## 인코딩설정





# Chapter 1

## 수고하셨습니다