



Day22; 20221005

📅 날짜	
📅 유형	@2022년 10월 5일
🏷 태그	

GitHub - u8yes/R

You can't perform that action at this time. You signed in with another tab or window. You signed out in another tab or window. Reload to refresh your session. Reload to refresh your session.

<https://github.com/u8yes/R>

u8yes/R

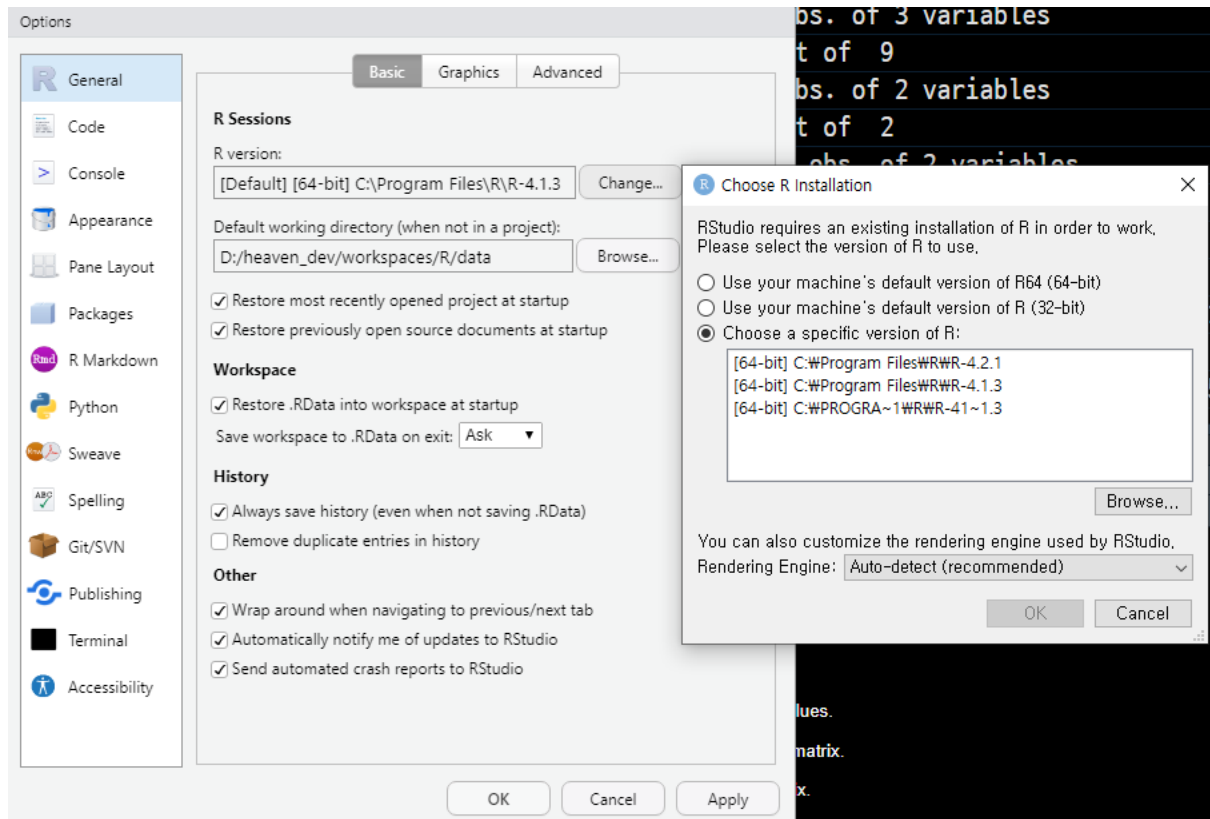


1 Contributor 0 Issues 1 Star 0 Forks

The Comprehensive R Archive Network

<https://cran.biodisk.org/>

R을 새로 설치하면 RStudio에서 버전을 선택할 수 있다.



다시 설치하기 위해 이전 버전이나 이후 버전을 삭제할 필요가 없다.

read.csv 때도 txt 파일을 불러올 수 있지만 안 될 경우엔 encoding = "UTF-8" 설정해서 불러오면 제대로 나옴.

```
57 # - csv 파일 형식 불러오기
58 student4 <- read.csv(file = "student4.txt", header = T, na.strings = "-",
59 encoding = "UTF-8")
60 student4
```

Error: object 'student4' not found

```
> student4
  번호 이름   키 몸무게
1  101 hong  175      +
2  201 lee   $    85
3  301 kim  173 <NA>
4  401 park <NA>   70
> |
```

단계1 : 세계 GDP 순위 데이터 가져오기

<https://databank.worldbank.org/data/download/GDP.csv>

329 observation

```
> dim(GDP_ranking)
[1] 329  6
```

observation

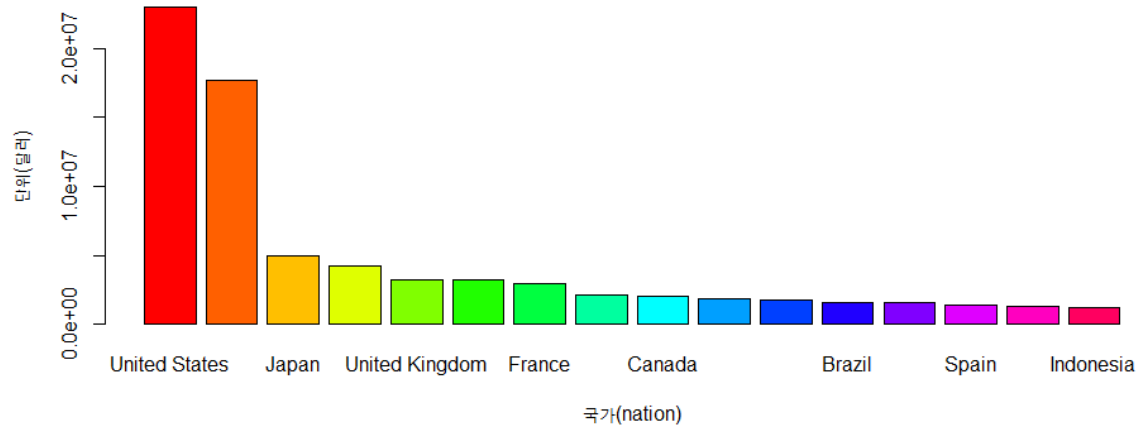
미국식[|a:bzər|veɪʃn] <영> 영국식[|

영사

1 관찰, 관측, 감시, 주시

문자열을 수치형으로 바꿔주는 패키지.

```
8 install.packages("stringr")
9 library(stringr)
```

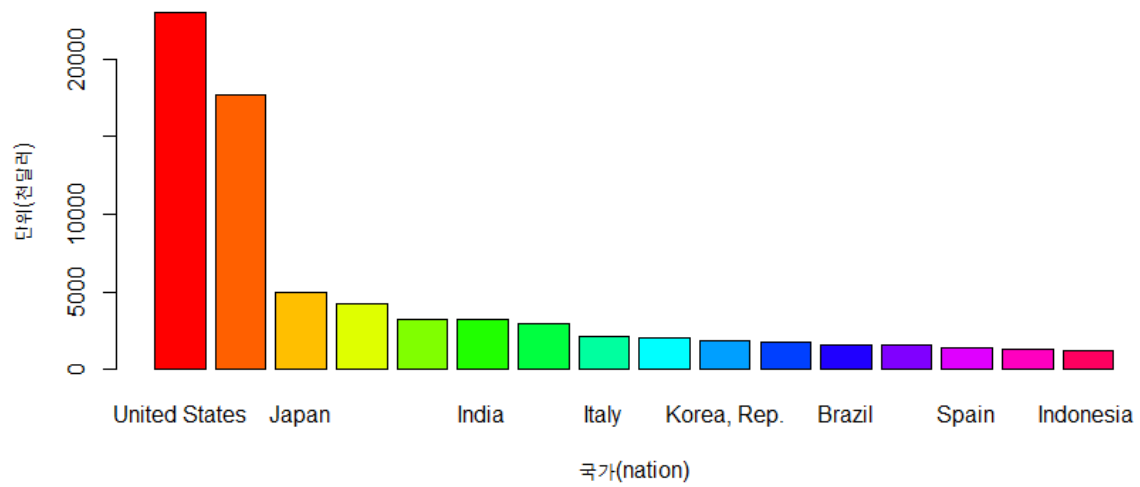


```

17 # 막대차트 시각화
18 barplot(GDP_ranking16$GDP, col = rainbow(16),
19         xlab = '국가(nation)', ylab='단위(달러)', names.arg=nation)
20
21 # 1,000단위 축소
22 num_gdp2 <- num_gdp / 1000
23 GDP_ranking16$GDP2 <- num_gdp2
24 barplot(GDP_ranking16$GDP2, col = rainbow(16),
25         main = "2021년도 GDP 세계 16위 국가",
26         xlab = '국가(nation)', ylab='단위(천달러)', names.arg=nation)
27
28 GDP_ranking16
29

```

2021년도 GDP 세계 16위 국가



Useful Stats: Per Capita Personal Income by State, 2010-2015 | SSTi

North Dakota led the country in per capita personal income gains between 2010-2015, according to data released by the Bureau of Economic Analysis (BEA). While average (mean) incomes rose 18.4 percent around the U.S.

<https://ssti.org/blog/useful-stats-capita-personal-income-state-2010-2015>



factor = domain, 예) 성별은 남과 여.

수치형으로 빈도수를 설명하기도 함.

순서가 있는, 순서가 없는 요인도 있음.

ssti.org/blog/useful-stats-capita-personal-income-state-2010-2015

- 2022 OASB Annual Forum Report | SEC
- One state offers lessons in how to cope with the college enrollment crisis | Hechinger Report
- USDA Announces Appointments to Equity Commission Subcommittee on Rural Community Economic Development
- Moderna Among Firms Quietly Granted Powers to Seize Patent Rights During Early Days of Covid Pandemic | The Intercept
- Workforce Automation: Insights into Skills and Training Programs for Impacted Workers | U.S. GAO
- Expanding Digital Inclusion Via the Bipartisan Infrastructure Law - National Skills Coalition

Recent Tweets

- RT @US_EDA: Thank you @POTUS, @SecRaimondo and our 21 #BBBRC WINNERS for joining us today to discuss these transformational pro... <https://t.co/laE3kzwqXv>
- Exciting news as the @US_EDA and president announce 21 winners of the \$1B Build Back Better Regional Challenge enab... <https://t.co/Yy08xQToda>
- The landmark legislation for the innovation economy nicknamed "Chips and Science" is headed to the president for hi... <https://t.co/HfXavhWfKS>
- Join the U.S. SBA at America's Seed Fund Week 2022, July 18 - 22; a free

Download the table below in Excel format at:
<http://ssti.org/sites/default/files/per%20cap%20income.xlsx>

Per Capita Personal Income by State, 2010-2015
 Source: Bureau of Economic Analysis, prepared by SSTI

State	2010	2011	2012	2013	2014	2015
United States	\$40,277	\$42,453	\$44,266	\$44,438	\$46,049	\$47,669
Alabama	\$34,073	\$35,202	\$36,036	\$36,176	\$37,512	\$38,965
Alaska	\$47,773	\$50,552	\$52,269	\$51,259	\$54,012	\$55,940
Arizona	\$34,185	\$35,675	\$36,788	\$36,723	\$37,895	\$39,060
Arkansas	\$31,991	\$33,961	\$36,291	\$36,529	\$37,782	\$39,107
California	\$42,411	\$44,852	\$47,614	\$48,125	\$49,985	\$52,651
Colorado	\$41,877	\$44,349	\$46,402	\$46,746	\$48,869	\$50,410
Connecticut	\$57,347	\$59,884	\$62,738	\$62,112	\$64,864	\$66,972
Delaware	\$41,783	\$43,555	\$44,747	\$44,819	\$46,378	\$47,662

```

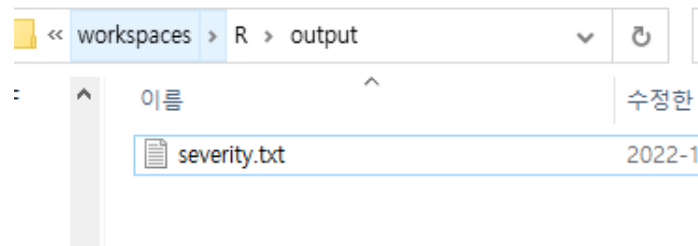
1 url <- "https://ssti.org/blog/useful-stats-capita-personal-income-state-2010-2015"
2
3 get_url <- GET(url)
4 get_url$content # 16진수로 읽어와서 담는다
5 rawToChar(get_url$content)
6
7 html_cont <- readHTMLTable(rawToChar(get_url$content), stringsAsFactors=F)
8 class(html_cont) # "list"는 key, value 형태
9
10 html_cont <- as.data.frame(html_cont) # data.frame으로 형변환
11 class(html_cont) # "data.frame"
12 head(html_cont) # 6개만 표시하겠다.
13
14 > head(html_cont)
15   NULL.State NULL.2010 NULL.2011 NULL.2012 NULL.2013 NULL.2014 NULL.2015
16 1 United States  $40,277  $42,453  $44,266  $44,438  $46,049  $47,669
17 2   Alabama    $34,073  $35,202  $36,036  $36,176  $37,512  $38,965
18 3   Alaska     $47,773  $50,552  $52,269  $51,259  $54,012  $55,940
19 4   Arizona    $34,185  $35,675  $36,788  $36,723  $37,895  $39,060
20 5   Arkansas   $31,991  $33,961  $36,291  $36,529  $37,782  $39,107
21 6   California  $42,411  $44,852  $47,614  $48,125  $49,985  $52,651
22
23 >
  
```

JAVA에서 파일 인풋스트림, 아웃풋스트림이라고 해서 파일과 연결해줄 수 통로라는 것이 있다.

```

5
6 sink("severity.txt") # 저장할 파일 open
7 severity <- Severity_Counts # 데이터 셋을 변수에 저장.
8 severity # 콘솔에 출력되지 않고, 파일에 저장
9 sink() # 오픈된 파일 close
0

```



severity.txt - Windows 메모장

파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

Bugs.BR	Bugs.AR	NT.Bugs.BR	NT.Bugs.AR	Major.BR	Major.AR
11605	374	10119	17	1135	35
Critical.BR	Critical.AR	H.Priority.BR	H.Priority.AR		
432	10	459	3		

한글 깨짐 해결

