Can someone explain the step-by-step process for importing .dta files into R?

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May 4, 2024

This inquiry seeks a detailed explanation with a structured approach on how to import .dta files into the R software. The desired response should provide a step-by-step guide outlining the necessary actions and commands to successfully import the specified file format into R. The explanation should be clear and concise, using technical language and examples to aid in understanding the process.

Import .dta Files into R (Step-by-Step)

The easiest way to import .dta files into R is to use the read_dta() function from the library.

This function uses the following basic syntax:

data <- read_dta('C:/Users/User_Name/file_name.dta')

The following step-by-step example shows how to import a .dta file into R in practice.

Step 1: Download a .dta Data File

For this example, we'll download the .dta file called cola.dta from .

Stata dataset files (*.dta) are compatible with Stata Version 9 or 10.

Download all the *.dta files in (a) ZIP format or (b) a self-extracting EXE file (download and double-click)

Select individual *.dta files from the table below.

airline	cola	gold	meat	profits	tax
alcohol	cola2	golf	medical	pub	tax2
andy	commute	growth	metrics	pubexp	term
asparas	computer	grunfeld	mexico	qtm	texas
bangla	consumption	grunfeld2	mining	quizzes	theories
beer	cps	grunfeld3	money	returns	tobit
bond	cps_small	hhsurvey	monop	rice	tobitmc
br	cps1	hip	mroz	robbery	toodyay
br2	cps2	house_starts	music	salary	transport
broiler	crime	housing	nels	sales	truffles
brumm	csi	hwage	nels_small	savings	tuna
byd	demand	indpro	newbroiler	share	uk
canada	demo	inflation	nls	sheep	unit
capm2	edu_inc	insur	nls_panel	sirmans	usa
cars	euro	ivreg1	nls_panel2	sp	utown
cattle	exrate	ivreg2	oil	spurious	vacan
ces	fair	jobs	olympics	sterling	vacation
cespro	figureC-3	korea	orange	stockton	var
ch10	florida	learn	oscar	stockton2	vec
chard	food	liquor	oz	stockton96	vote
cloth	fullmoon	lon1	phillips	surplus	vote2
clothes	fultonfish	lon2	phillips2	table2-2	wa-wheat
coal	gascar	lond_small	pilots	table-c2	yield
cobb	gasga	london	pizza	table-c3	
cocaine	gdp	manuf	pro	table-c4	

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Step 2: Install haven Package

Next, we'll install the haven package in R:

install.packages('haven')

We'll then load the package:

library(haven)

Step 3: Import the .dta File

Next, we'll use the read_dta() function to import the .dta file:

```
data <- read_dta('C:/Users/bob/Downloads/cola.dta')
```

Once we've imported the .dta file, we can get a quick summary of the data:

```
#view class of data
class(data)
```

```
"tbl_df" "tbl" "data.frame"
```

```
#display dimensions of data frame
dim(data)
```

```
5466 5
```

```
#view first six rows of data
head(data)
```

```
ID CHOICE PRICE FEATURE DISPLAY
1 1 0 1.79 0 0
2 1 0 1.79 0 0
3 1 1 1.79 0 0
4 2 0 1.79 0 0
```

5 2 0 1.79 0 0

6 2 1 0.890 1 1

The following tutorials explain how to import other file types into R: