R Notebook

This is an [R Markdown](http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

library(ggplot2)  
library(MASS)

create variables

mass <- 47.5  
age <- 122  
mass <- mass \* 2.3  
age <- age - 20  
mass > age

## [1] TRUE

rm(mass,age)

cats

## Sex Bwt Hwt  
## 1 F 2.0 7.0  
## 2 F 2.0 7.4  
## 3 F 2.0 9.5  
## 4 F 2.1 7.2  
## 5 F 2.1 7.3  
## 6 F 2.1 7.6  
## 7 F 2.1 8.1  
## 8 F 2.1 8.2  
## 9 F 2.1 8.3  
## 10 F 2.1 8.5  
## 11 F 2.1 8.7  
## 12 F 2.1 9.8  
## 13 F 2.2 7.1  
## 14 F 2.2 8.7  
## 15 F 2.2 9.1  
## 16 F 2.2 9.7  
## 17 F 2.2 10.9  
## 18 F 2.2 11.0  
## 19 F 2.3 7.3  
## 20 F 2.3 7.9  
## 21 F 2.3 8.4  
## 22 F 2.3 9.0  
## 23 F 2.3 9.0  
## 24 F 2.3 9.5  
## 25 F 2.3 9.6  
## 26 F 2.3 9.7  
## 27 F 2.3 10.1  
## 28 F 2.3 10.1  
## 29 F 2.3 10.6  
## 30 F 2.3 11.2  
## 31 F 2.4 6.3  
## 32 F 2.4 8.7  
## 33 F 2.4 8.8  
## 34 F 2.4 10.2  
## 35 F 2.5 9.0  
## 36 F 2.5 10.9  
## 37 F 2.6 8.7  
## 38 F 2.6 10.1  
## 39 F 2.6 10.1  
## 40 F 2.7 8.5  
## 41 F 2.7 10.2  
## 42 F 2.7 10.8  
## 43 F 2.9 9.9  
## 44 F 2.9 10.1  
## 45 F 2.9 10.1  
## 46 F 3.0 10.6  
## 47 F 3.0 13.0  
## 48 M 2.0 6.5  
## 49 M 2.0 6.5  
## 50 M 2.1 10.1  
## 51 M 2.2 7.2  
## 52 M 2.2 7.6  
## 53 M 2.2 7.9  
## 54 M 2.2 8.5  
## 55 M 2.2 9.1  
## 56 M 2.2 9.6  
## 57 M 2.2 9.6  
## 58 M 2.2 10.7  
## 59 M 2.3 9.6  
## 60 M 2.4 7.3  
## 61 M 2.4 7.9  
## 62 M 2.4 7.9  
## 63 M 2.4 9.1  
## 64 M 2.4 9.3  
## 65 M 2.5 7.9  
## 66 M 2.5 8.6  
## 67 M 2.5 8.8  
## 68 M 2.5 8.8  
## 69 M 2.5 9.3  
## 70 M 2.5 11.0  
## 71 M 2.5 12.7  
## 72 M 2.5 12.7  
## 73 M 2.6 7.7  
## 74 M 2.6 8.3  
## 75 M 2.6 9.4  
## 76 M 2.6 9.4  
## 77 M 2.6 10.5  
## 78 M 2.6 11.5  
## 79 M 2.7 8.0  
## 80 M 2.7 9.0  
## 81 M 2.7 9.6  
## 82 M 2.7 9.6  
## 83 M 2.7 9.8  
## 84 M 2.7 10.4  
## 85 M 2.7 11.1  
## 86 M 2.7 12.0  
## 87 M 2.7 12.5  
## 88 M 2.8 9.1  
## 89 M 2.8 10.0  
## 90 M 2.8 10.2  
## 91 M 2.8 11.4  
## 92 M 2.8 12.0  
## 93 M 2.8 13.3  
## 94 M 2.8 13.5  
## 95 M 2.9 9.4  
## 96 M 2.9 10.1  
## 97 M 2.9 10.6  
## 98 M 2.9 11.3  
## 99 M 2.9 11.8  
## 100 M 3.0 10.0  
## 101 M 3.0 10.4  
## 102 M 3.0 10.6  
## 103 M 3.0 11.6  
## 104 M 3.0 12.2  
## 105 M 3.0 12.4  
## 106 M 3.0 12.7  
## 107 M 3.0 13.3  
## 108 M 3.0 13.8  
## 109 M 3.1 9.9  
## 110 M 3.1 11.5  
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## 112 M 3.1 12.5  
## 113 M 3.1 13.0  
## 114 M 3.1 14.3  
## 115 M 3.2 11.6  
## 116 M 3.2 11.9  
## 117 M 3.2 12.3  
## 118 M 3.2 13.0  
## 119 M 3.2 13.5  
## 120 M 3.2 13.6  
## 121 M 3.3 11.5  
## 122 M 3.3 12.0  
## 123 M 3.3 14.1  
## 124 M 3.3 14.9  
## 125 M 3.3 15.4  
## 126 M 3.4 11.2  
## 127 M 3.4 12.2  
## 128 M 3.4 12.4  
## 129 M 3.4 12.8  
## 130 M 3.4 14.4  
## 131 M 3.5 11.7  
## 132 M 3.5 12.9  
## 133 M 3.5 15.6  
## 134 M 3.5 15.7  
## 135 M 3.5 17.2  
## 136 M 3.6 11.8  
## 137 M 3.6 13.3  
## 138 M 3.6 14.8  
## 139 M 3.6 15.0  
## 140 M 3.7 11.0  
## 141 M 3.8 14.8  
## 142 M 3.8 16.8  
## 143 M 3.9 14.4  
## 144 M 3.9 20.5

To specifcy a colum

cats$weight

## NULL

cats$coat

## NULL

to add a new colum in a dataset

cats$weightplus2 <- cats$weight +2  
cats$weightplus2

cats

## Sex Bwt Hwt  
## 1 F 2.0 7.0  
## 2 F 2.0 7.4  
## 3 F 2.0 9.5  
## 4 F 2.1 7.2  
## 5 F 2.1 7.3  
## 6 F 2.1 7.6  
## 7 F 2.1 8.1  
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## 10 F 2.1 8.5  
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## 14 F 2.2 8.7  
## 15 F 2.2 9.1  
## 16 F 2.2 9.7  
## 17 F 2.2 10.9  
## 18 F 2.2 11.0  
## 19 F 2.3 7.3  
## 20 F 2.3 7.9  
## 21 F 2.3 8.4  
## 22 F 2.3 9.0  
## 23 F 2.3 9.0  
## 24 F 2.3 9.5  
## 25 F 2.3 9.6  
## 26 F 2.3 9.7  
## 27 F 2.3 10.1  
## 28 F 2.3 10.1  
## 29 F 2.3 10.6  
## 30 F 2.3 11.2  
## 31 F 2.4 6.3  
## 32 F 2.4 8.7  
## 33 F 2.4 8.8  
## 34 F 2.4 10.2  
## 35 F 2.5 9.0  
## 36 F 2.5 10.9  
## 37 F 2.6 8.7  
## 38 F 2.6 10.1  
## 39 F 2.6 10.1  
## 40 F 2.7 8.5  
## 41 F 2.7 10.2  
## 42 F 2.7 10.8  
## 43 F 2.9 9.9  
## 44 F 2.9 10.1  
## 45 F 2.9 10.1  
## 46 F 3.0 10.6  
## 47 F 3.0 13.0  
## 48 M 2.0 6.5  
## 49 M 2.0 6.5  
## 50 M 2.1 10.1  
## 51 M 2.2 7.2  
## 52 M 2.2 7.6  
## 53 M 2.2 7.9  
## 54 M 2.2 8.5  
## 55 M 2.2 9.1  
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## 57 M 2.2 9.6  
## 58 M 2.2 10.7  
## 59 M 2.3 9.6  
## 60 M 2.4 7.3  
## 61 M 2.4 7.9  
## 62 M 2.4 7.9  
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## 70 M 2.5 11.0  
## 71 M 2.5 12.7  
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## 74 M 2.6 8.3  
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## 76 M 2.6 9.4  
## 77 M 2.6 10.5  
## 78 M 2.6 11.5  
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## 80 M 2.7 9.0  
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## 133 M 3.5 15.6  
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## 135 M 3.5 17.2  
## 136 M 3.6 11.8  
## 137 M 3.6 13.3  
## 138 M 3.6 14.8  
## 139 M 3.6 15.0  
## 140 M 3.7 11.0  
## 141 M 3.8 14.8  
## 142 M 3.8 16.8  
## 143 M 3.9 14.4  
## 144 M 3.9 20.5

paste("My cat is", cats$coat)

## [1] "My cat is "

x <- 1:5

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Ctrl+Alt+I*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.