

The Ultimate Beginner's Guide to R and RStudio

```
r print("Hello, world!")
```

R also has a variety of operators for performing arithmetic, logical, and comparison operations. The following table provides a summary of the most common operators:

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus
==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to



Beyond Spreadsheets with R: A beginner's guide to R and RStudio by Jonathan Carroll

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Statement	Description
if	Conditional statement
else	Else statement
for	For loop
while	While loop
break	Break statement
continue	Continue statement

| Pane | Description | |---|---| | Console | The console pane is where you enter R commands and view the results. | | Editor | The editor pane is where you write and edit R scripts. | | Viewer | The viewer pane displays the output of your R commands, including plots, tables, and text. | | Files | The files pane displays a list of the files and folders in your current working directory. |

| Feature | Description | |---|---| | Autocomplete | Autocomplete provides suggestions for R functions and variables as you type. | | Syntax highlighting | Syntax highlighting makes it easy to identify different elements of your R code, such as keywords, functions, and variables. | | Error checking | RStudio checks your R code for errors as you type it. | | Debugging | RStudio provides a range of tools for debugging R code, including breakpoints and step-by-step execution. |

Data Cleaning

| Function | Description | |---|---| | `is.na()` | Checks for missing values | | `na.omit()` | Removes missing values | | `unique()` | Removes duplicate values | | `subset()` | Selects a subset of rows and columns from a data frame |

Data Exploration

| Function | Description | |---|---| | `str()` | Displays the structure of a data frame | | `summary()` | Displays summary statistics for a data frame | | `plot()` | Creates a plot of a data frame |

Data Visualization

| Function | Description | |---|---| | `plot()` | Creates a plot of a data frame | | `ggplot()` | Creates ggplot2 plot | | `lattice()` | Creates a lattice plot |

Data Modeling

| Function | Description | |---|---| | lm()> | Fits a linear regression model | | glm()> | Fits a generalized linear model | | randomForest()> | Fits a random forest model |



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