

Data Tables

Data Tables

- What is a Data Table?
- How to create a Data Table?
- Navigate your data table
- Change the structure of your data table
- Filter your data table
- Practical example

What is a Data Table

It's a table that is **stored in the memory**

It has **rows** and **columns**

We can access a particular **cell**, navigating through rows & columns

Data table is a special type of **variable** in UiPath

A common Business Process scenario







Input

any **tabular** format : csv, Excel files, HTML tables

Data Table

processing

Output

any app

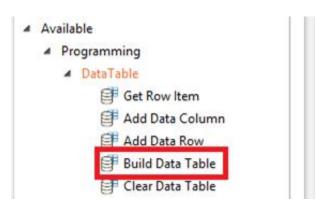
How to create a Data Table



or

reading tabular data from external sources

Read CSV Read Excel Read Range Extract Structured Data



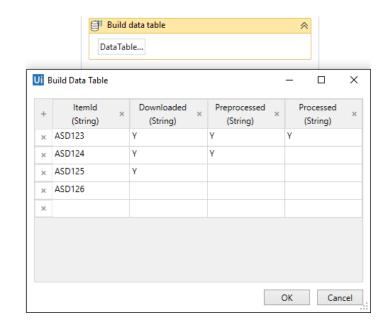
2. creating it from scratch

Build Data Table

Build your data table

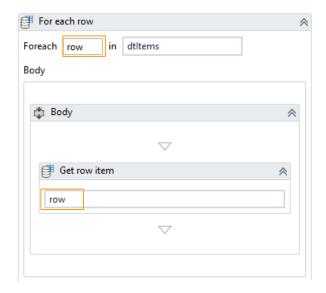
Build Data Table

- Click on + to add a new column in the DataTable.
- 1. Set the column *Name*, *Data* type and the other properties
- Start adding your data in the rows.
 Press ENTER to go to the next row



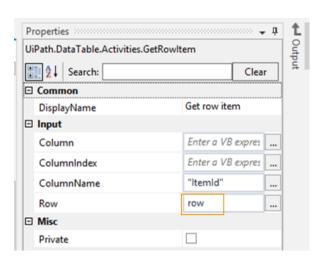
Navigate your data table

For Each Row



Iterate through your DataTable rows.

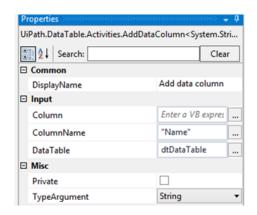
Get Row Item



set *Column Index* (it starts from 0!) or the *Name* (as a String)

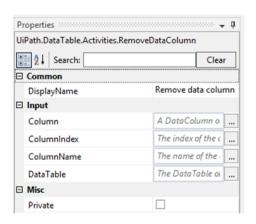
Change the structure

Add Data Column



Name of the new column, the DataTable

Remove Data Column



Column name or Index, the source DataTable

Filtering your data table

A+B Assign

selectedRows

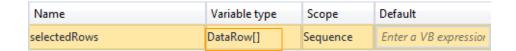
Using **Select** method of data table object

Display all rows in the DataTable

Foreach row in selectedRows

= dataTable.Select ("Age >= 30 ")

result of Select - an array of datarows



Practical examples

- 1. Calculate the average age of people over 18 in a table
 - Make sample data table
 - Filter data by age condition
 - Adding up years of age
 - Divide to number of people

2. Create a robot that reads the *Cash In, On Us Check, Not On Us Check* values from the *AnyTellerDemo.csv* file and enters them in the AnyTeller app

KB articles and useful documentation

- http://www.uipath.com/kb-articles/how-to-filter-a-data-table
- http://www.uipath.com/kb-articles/how-to-use-insert-datatable-activity
- http://www.uipath.com/kb-articles/simulate-excel-vlookup-in-a-datatable
- http://www.uipath.com/kb-articles/how-to-work-with-a-dynamic-array
- http://www.uipath.com/kb-articles/how-to-compare-collections