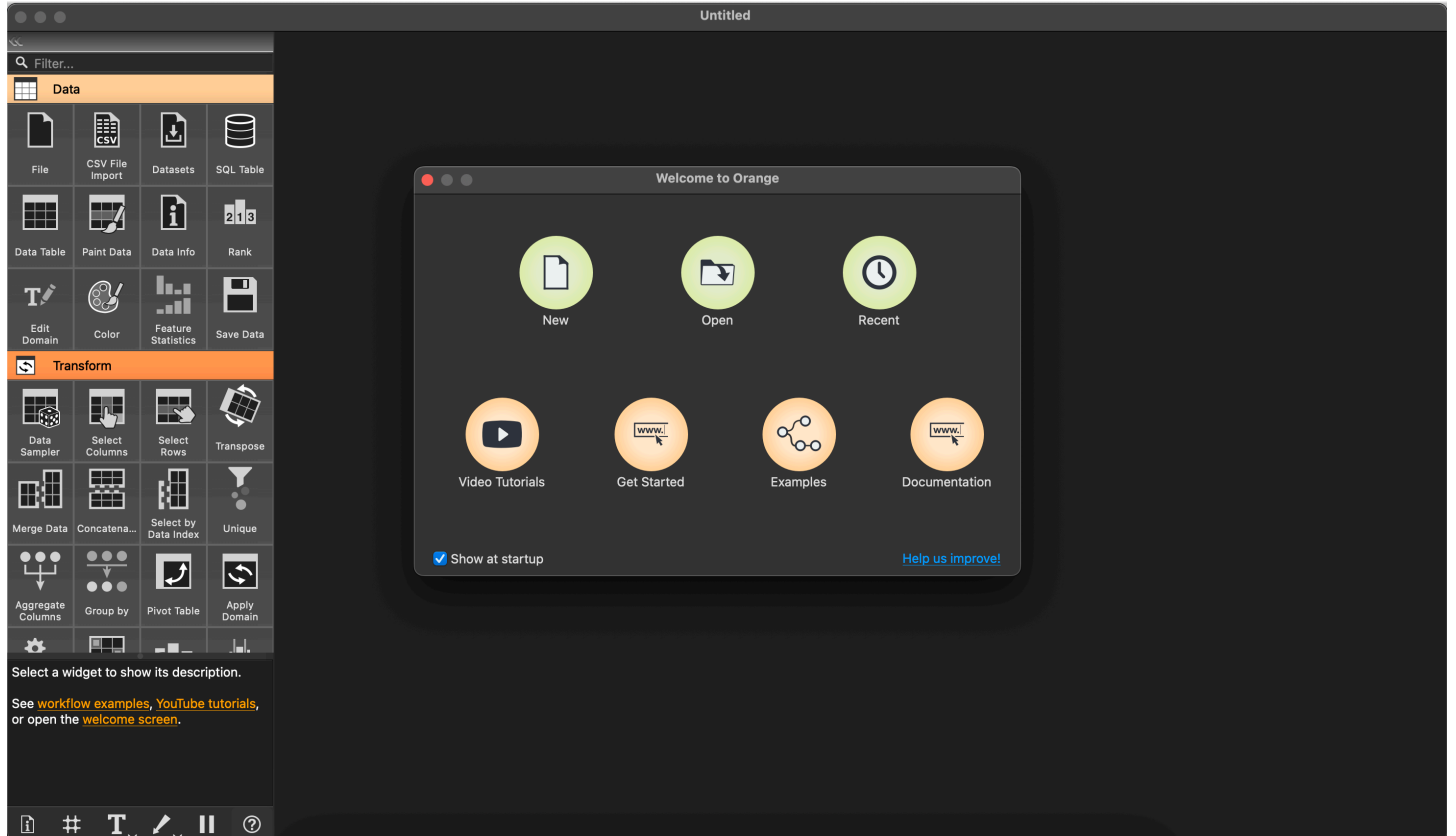


Data Science with Orange

Step 1: Launch Orange Data Mining Software



Step 2: Select the Data Widget

Filter...

Data

File

CSV File Import

Datasets

SQL Table

Data Table

Paint Data

Data Info

Rank

Edit Domain

Color

Feature Statistics

Save Data

Transform

Data Sampler

Select Columns

Select Rows

Transpose

Merge Data

Concatena...

Select by Data Index

Unique

Aggregate Columns

Group by

Pivot Table

Apply Domain

Preprocess

Impute

Continulize

Discretize

Select a widget to show its description.

See [workflow examples](#), [YouTube tutorials](#), or open the [welcome screen](#).

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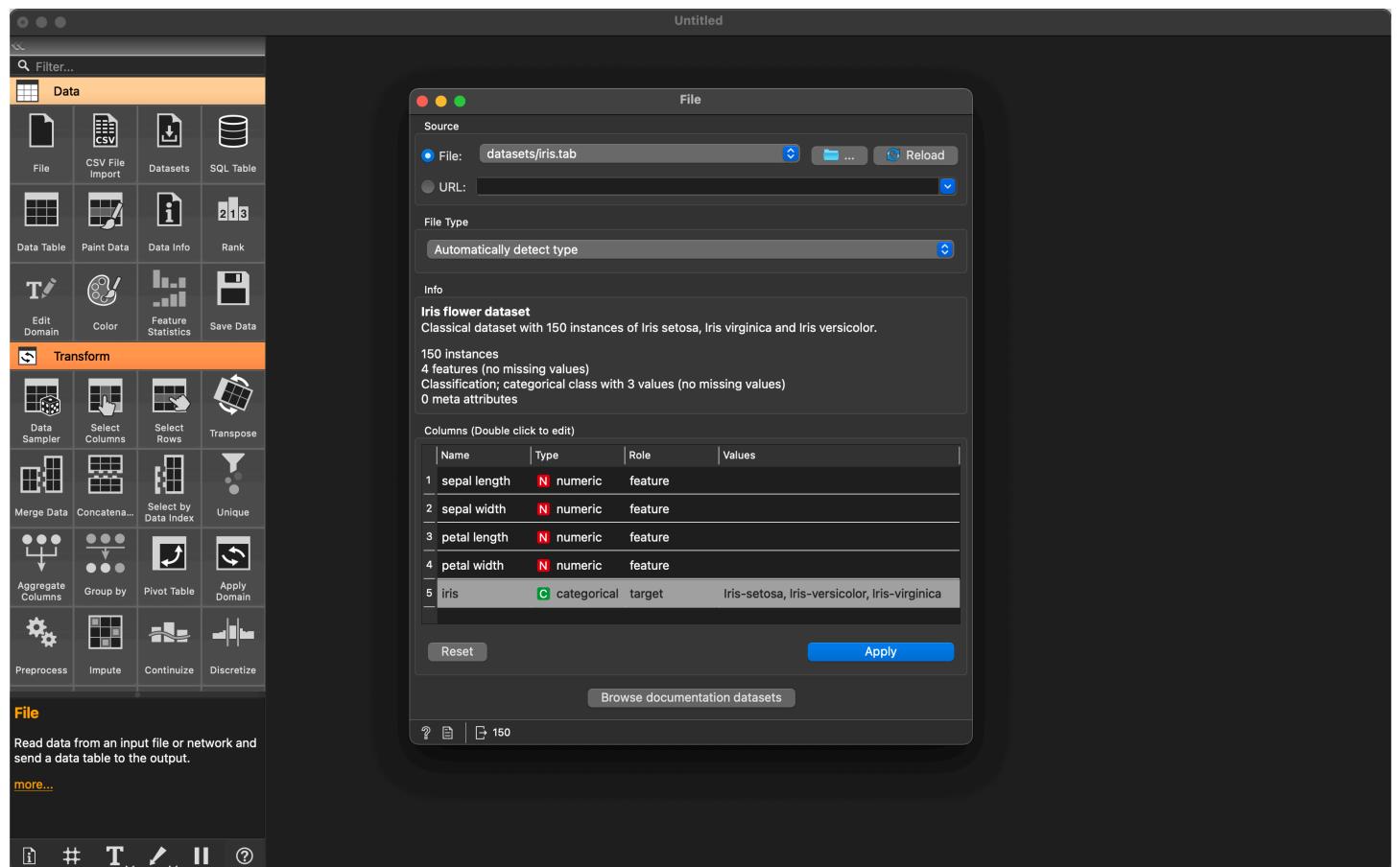
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File

Step 3: Load the iris Dataset



Step 4: Display the Dataset in a Data Table

Untitled

Filter...

Data

File

CSV File Import

Datasets

SQL Table

Data Table

Paint Data

Data Info

Rank

Edit Domain

Color

Feature Statistics

Save Data

Transform

Data Sampler

Select Columns

Select Rows

Transpose

Merge Data

Concatena...

Select by Data Index

Unique

Aggregate Columns

Group by

Pivot Table

Apply Domain

Preprocess

Impute

Continuize

Discretize

Select a widget to show its description.

See [workflow examples](#), [YouTube tutorials](#), or open the [welcome screen](#).

File

Data

Data Table

File

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Step 5: Explore the dataset

The screenshot shows the Orange3 software interface. On the left is a widget toolbox with categories: Data, Transform, and Visualize. The 'Data' category is selected, showing widgets like File, CSV File Import, Datasets, SQL Table, Data Table, Paint Data, Data Info, Rank, Edit Domain, Color, Feature Statistics, and Save Data. The 'Data Table' widget is highlighted. Below the toolbox, the 'Data Table' widget's description is visible: 'View the dataset in a spreadsheet. more...'. The main workspace contains a 'Data Table' widget window. It displays a table with 21 rows and 6 columns: 'iris', 'sepal length', 'sepal width', 'petal length', and 'petal width'. The 'iris' column contains the values 'Iris-setosa' for all rows. The left sidebar of the 'Data Table' window shows settings: 'Info' (150 instances, 4 features, 3 target values), 'Variables' (Show variable labels, Visualize numeric values, Color by instance classes), and 'Selection' (Select full rows). A 'Send Automatically' button is at the bottom.

	iris	sepal length	sepal width	petal length	petal width
1	Iris-setosa	5.1	3.5	1.4	0.2
2	Iris-setosa	4.9	3.0	1.4	0.2
3	Iris-setosa	4.7	3.2	1.3	0.2
4	Iris-setosa	4.6	3.1	1.5	0.2
5	Iris-setosa	5.0	3.6	1.4	0.2
6	Iris-setosa	5.4	3.9	1.7	0.4
7	Iris-setosa	4.6	3.4	1.4	0.3
8	Iris-setosa	5.0	3.4	1.5	0.2
9	Iris-setosa	4.4	2.9	1.4	0.2
10	Iris-setosa	4.9	3.1	1.5	0.1
11	Iris-setosa	5.4	3.7	1.5	0.2
12	Iris-setosa	4.8	3.4	1.6	0.2
13	Iris-setosa	4.8	3.0	1.4	0.1
14	Iris-setosa	4.3	3.0	1.1	0.1
15	Iris-setosa	5.8	4.0	1.2	0.2
16	Iris-setosa	5.7	4.4	1.5	0.4
17	Iris-setosa	5.4	3.9	1.3	0.4
18	Iris-setosa	5.1	3.5	1.4	0.3
19	Iris-setosa	5.7	3.8	1.7	0.3
20	Iris-setosa	5.1	3.8	1.5	0.3
21	Iris-setosa	5.4	3.4	1.7	0.2

Step 6: Visualize the Data with a Scatter Plot

The screenshot shows the Orange3 software interface. The 'Visualize' category in the toolbox is selected, showing various plot types. The 'Scatter Plot' widget is highlighted. Below the toolbox, the 'Scatter Plot' widget's description is visible: 'Interactive scatter plot visualization with intelligent data visualization enhancements. more...'. The main workspace contains a 'Scatter Plot' widget window. It displays a scatter plot with 'sepal length' on the x-axis and 'sepal width' on the y-axis. The data points are colored by the 'iris' variable, showing three distinct clusters: 'Iris-setosa' (blue), 'Iris-versicolor' (red), and 'Iris-virginica' (green). The left sidebar of the 'Scatter Plot' window shows settings: 'Axes' (Axis x: sepal length, Axis y: sepal width), 'Attributes' (Color: iris, Shape: Same shape, Size: Same size, Label: No labels), and 'Symbol size' and 'Opacity' sliders. A 'Find Informative Projections' button is present. A 'Send Automatically' button is at the bottom.

