

CAI 1001

AI Project I ↘

Analyzing Data with Orange Data Mining

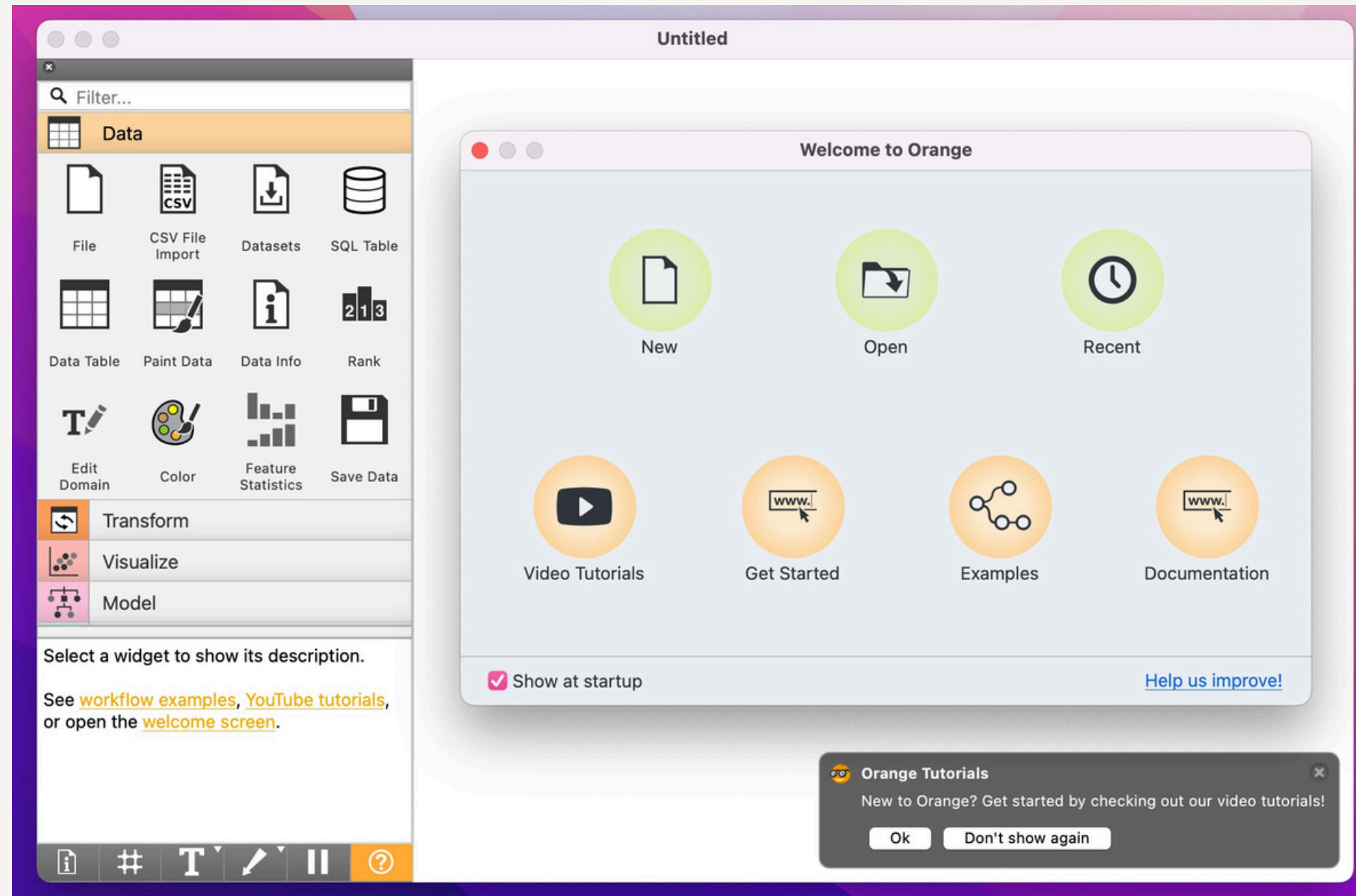
PRESENTED BY:

Ryanne Milligan

➔ Screenshot of Installation

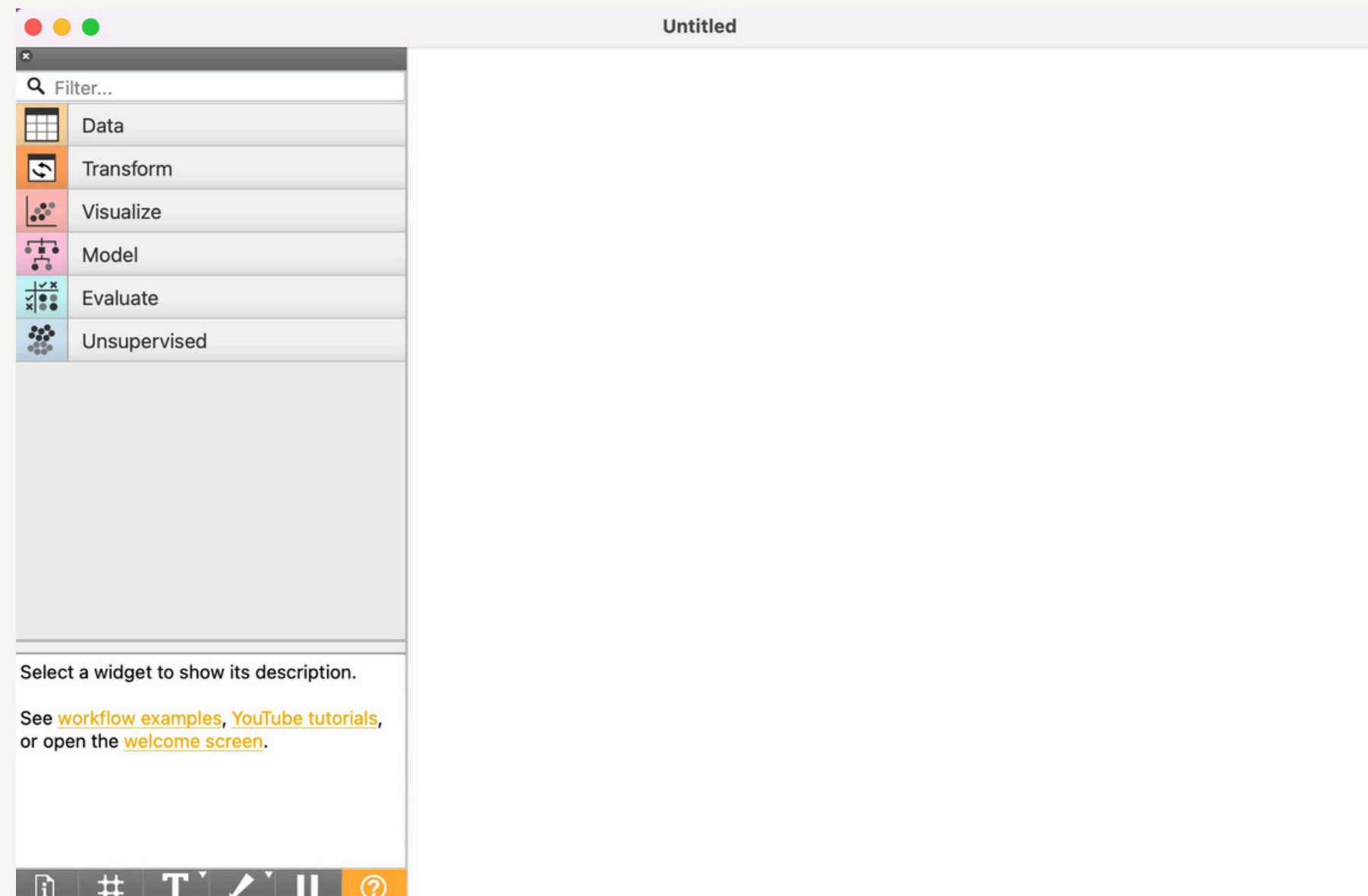


➔ Screenshot of Welcome Screen



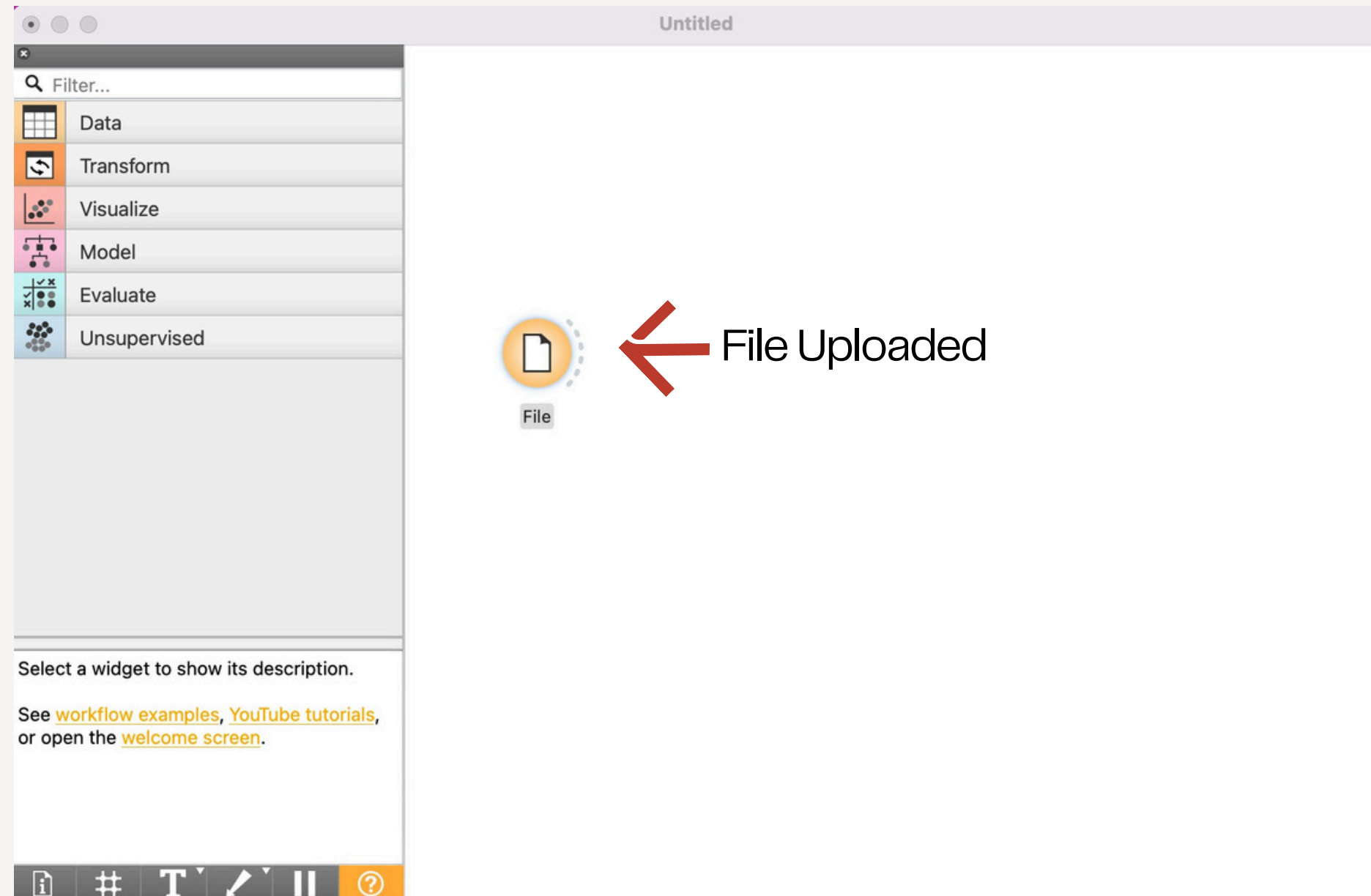
→ Screenshot of Main Workspace

Widget Panel



Canvas

→ Screenshot of File Uploaded

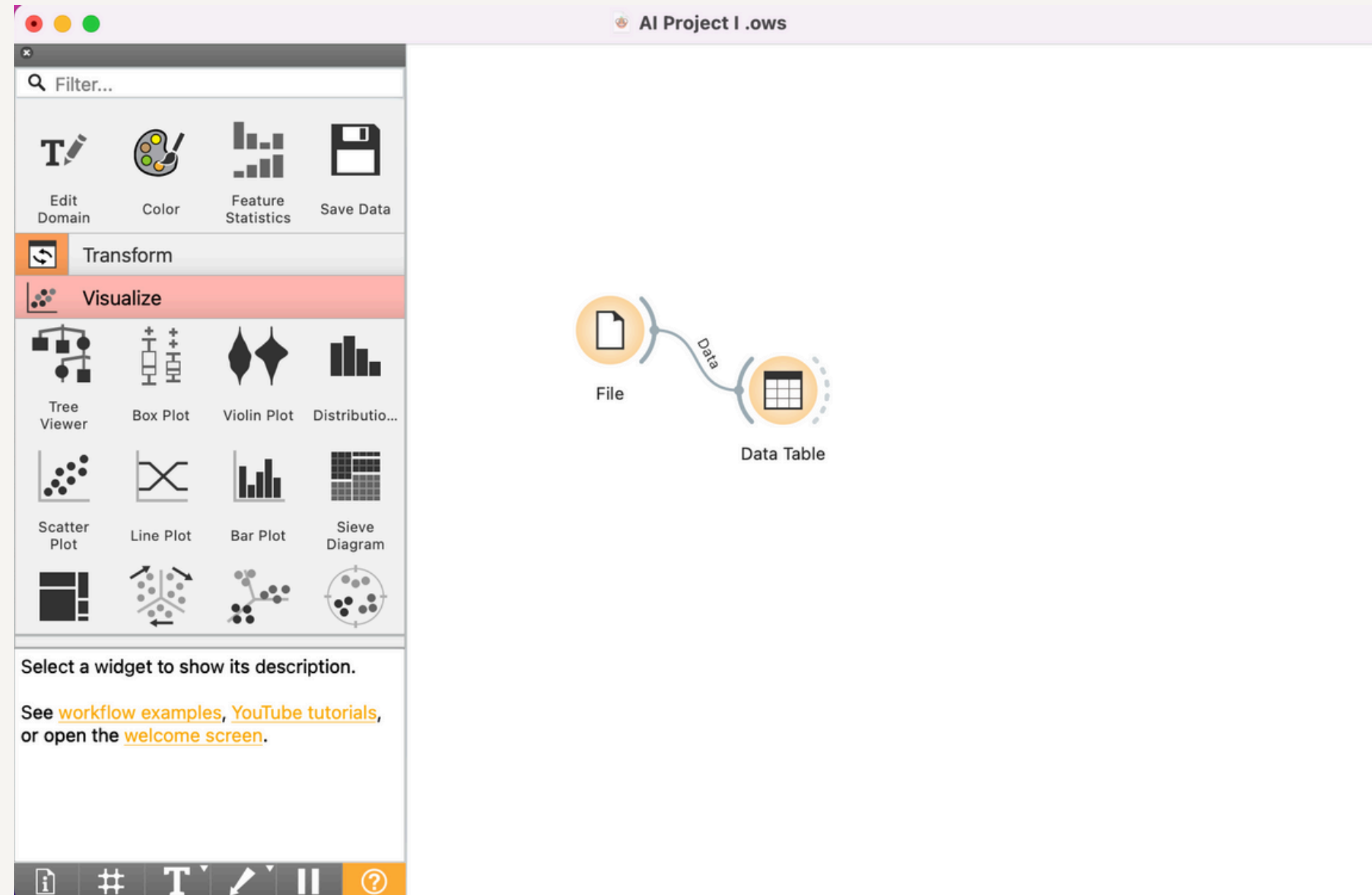


➔ Screenshot of Titanic Dataset

The screenshot shows a data science tool interface with a sidebar on the left and a main panel on the right. The sidebar contains sections for Data, Transform, and Visualize, each with several icons representing different functions. The main panel is titled 'File' and displays the source of the data as 'Downloads/Titanic dataset-1.csv'. It also shows the file type as 'Automatically detect type' and provides information about the dataset: 891 instances, 9 features (2.2% missing values), no target variable, and 3 meta attributes. A table lists the columns with their names, types, roles, and values.

	Name	Type	Role	Values
1	PassengerId	numeric	feature	
2	Survived	categorical	feature	0, 1
3	Pclass	numeric	feature	
4	Sex	categorical	feature	female, male
5	Age	numeric	feature	
6	SibSp	numeric	feature	
7	Parch	numeric	feature	

➔ Adding Data Table





Data Table Information

Filter...

Data

File

Data Table

Edit Domain

Transform

Visualize

Data Table

View the dataset

more...

Info

891 instances
9 features (2.2 % missing data)
No target variable.
3 meta attributes (25.7 % missing data)

Variables

☒ Show variable labels (if present)
☐ Visualize numeric values
☒ Color by instance classes

Selection

☒ Select full rows

Restore Original Order

☒ Send Automatically

Data Table

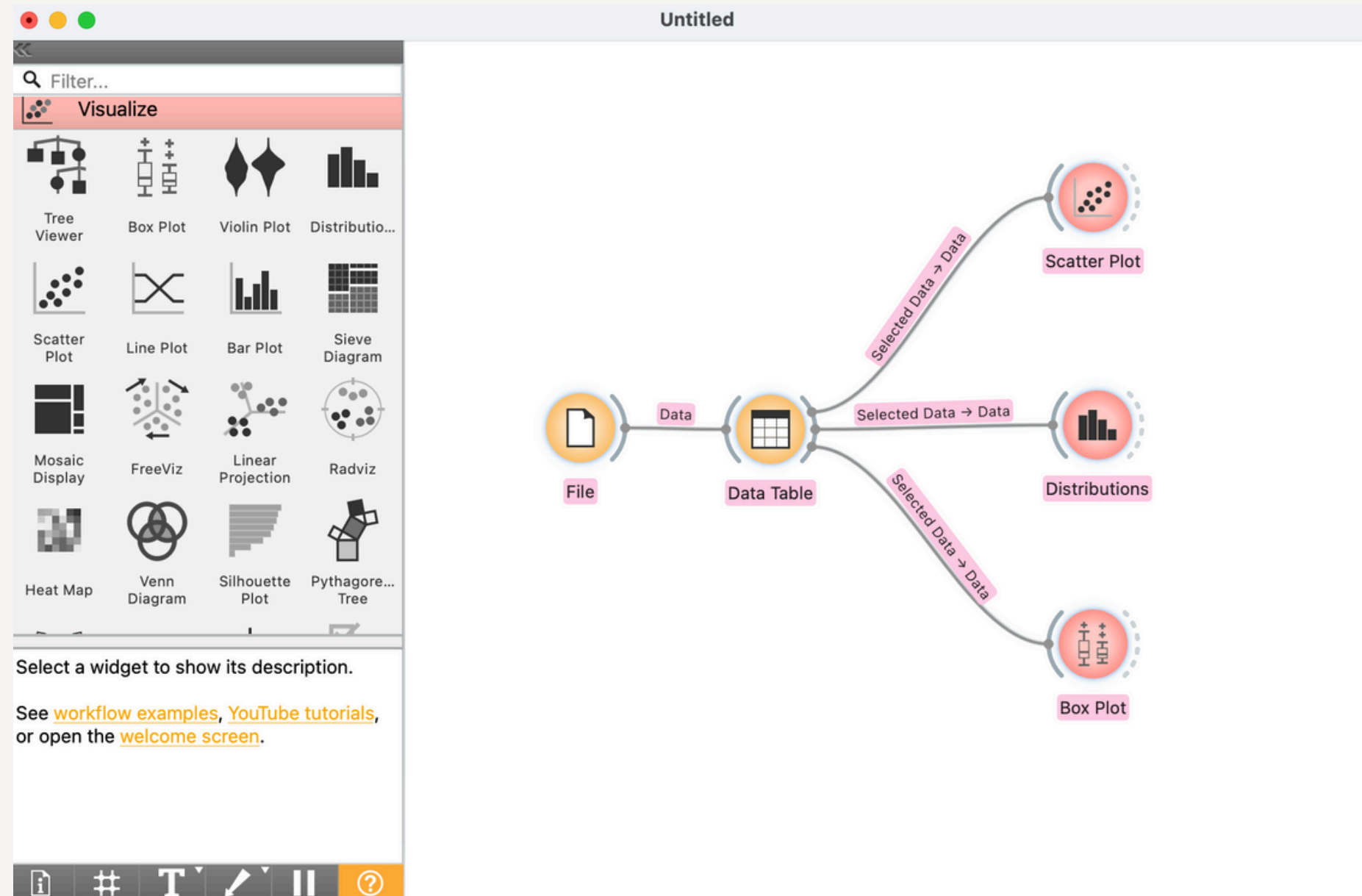
	Name	Ticket	Cabin	PassengerId	Survived
1	Braund, Mr. ...	A/5 21171	?	1	0
2	Cumings, Mr...	PC 17599	C85	2	1
3	Heikkinen, M...	STON/O2. 31...	?	3	1
4	Futrelle, Mrs....	113803	C123	4	1
5	Allen, Mr. Wil...	373450	?	5	0
6	Moran, Mr. J...	330877	?	6	0
7	McCarthy, M...	17463	E46	7	0
8	Palsson, Mas...	349909	?	8	0
9	Johnson, Mr...	347742	?	9	1
10	Nasser, Mrs. ...	237736	?	10	1
11	Sandstrom, ...	PP 9549	G6	11	1
12	Bonnell, Miss...	113783	C103	12	1
13	Saunderscock...	A/5. 2151	?	13	0
14	Andersson, ...	347082	?	14	0
15	Vestrom, Mis...	350406	?	15	0
16	Hewlett, Mrs....	248706	?	16	1
17	Rice, Master....	382652	?	17	0
18	Williams, Mr. ...	244373	?	18	1
19	Vander Plank...	345763	?	19	0
20	Masselmani, ...	2649	?	20	1
21	Fynney, Mr. J...	239865	?	21	0

891

891 | 891

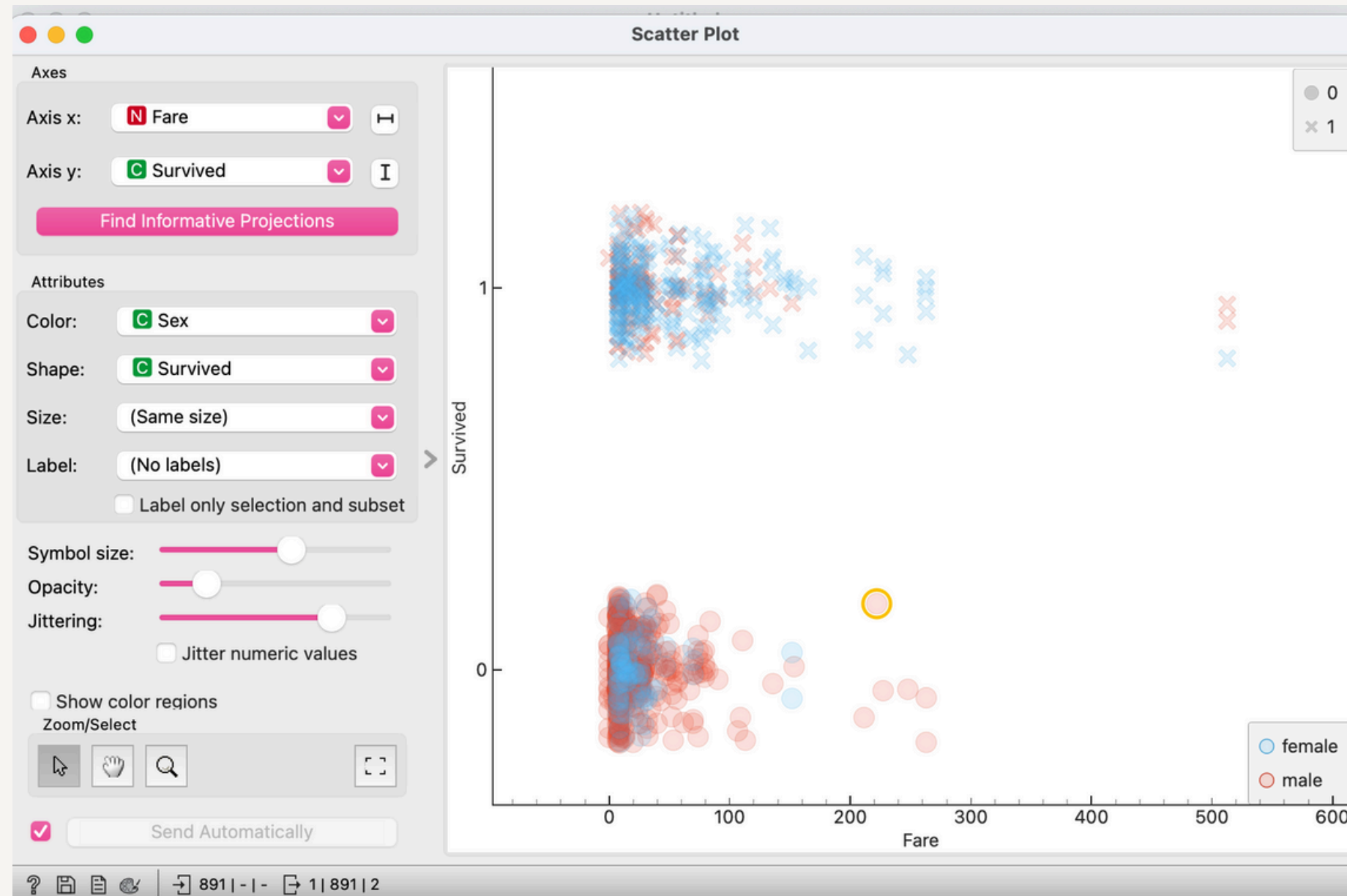


Finished Workflow





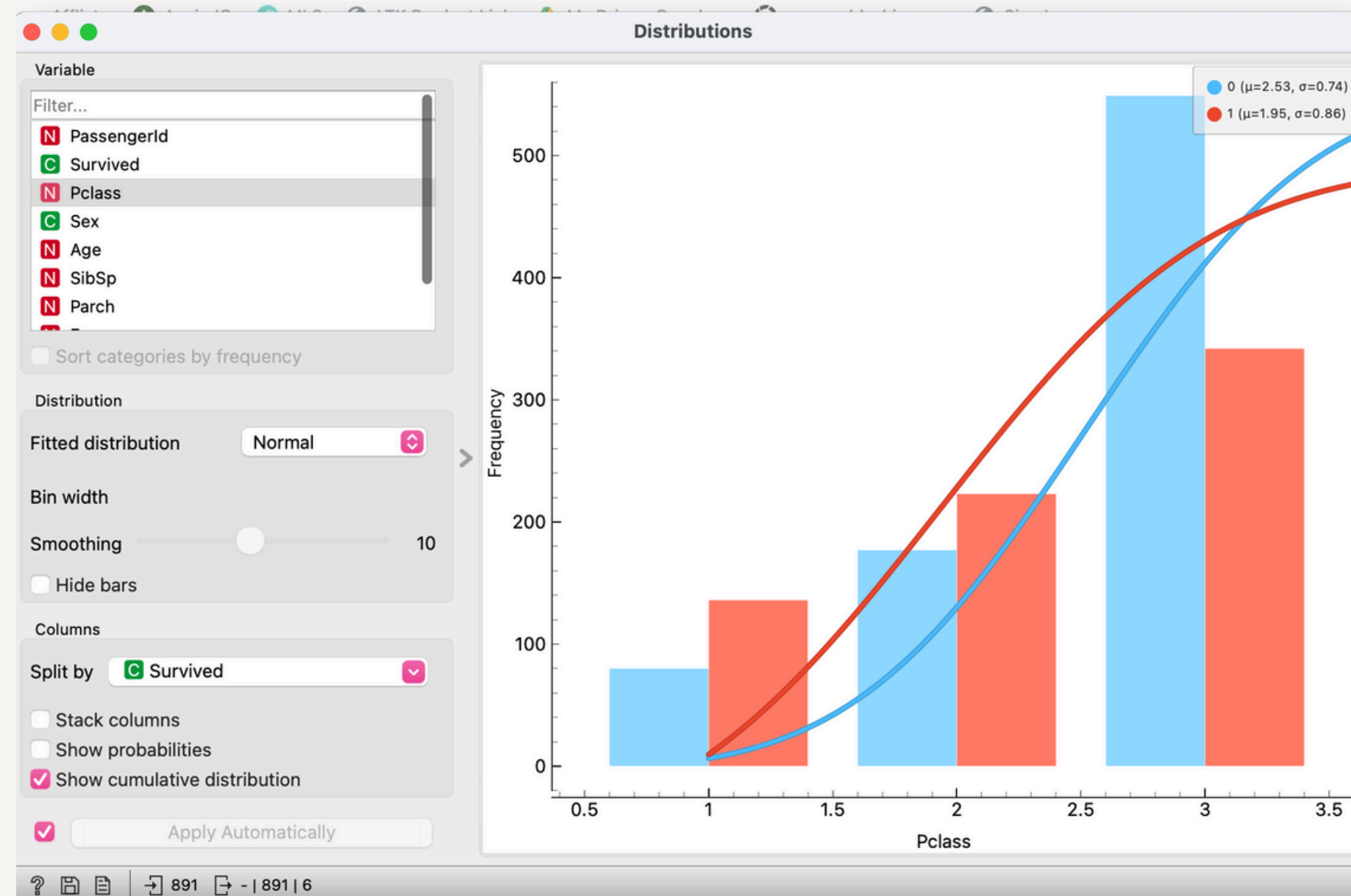
Scatterplot Interpretation



Interpretation

This chart shows that passengers that paid a higher fare were more likely to survive. This is especially true for women. Most of the death occurred with passengers who paid a lower fare and males had a very noticable drop in survival rate overall.

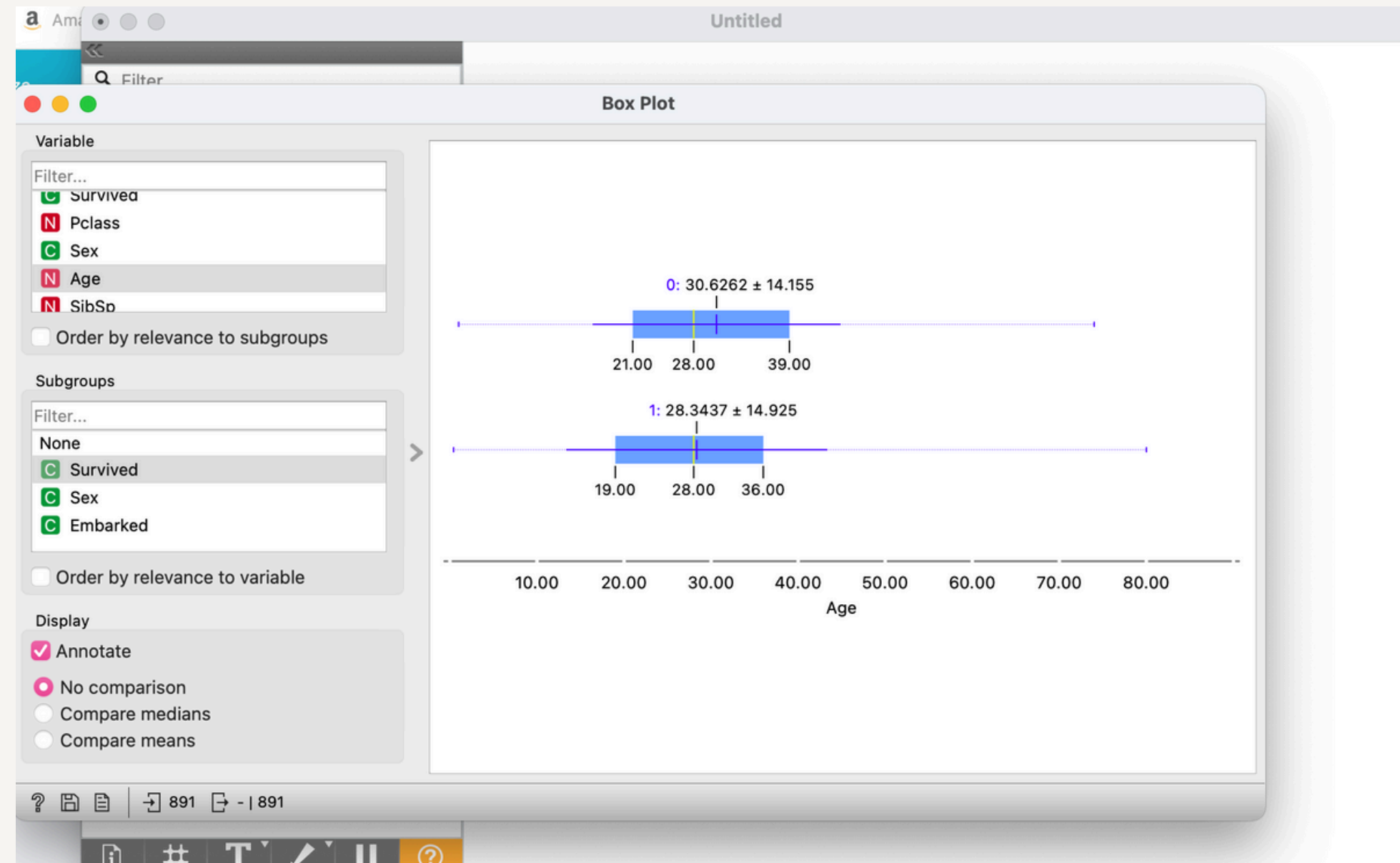
→ Distribution Interpretation



Interpretation

This chart is showing that the survival rates were the highest in the first class and lowest in the lowest 3rd class. More people died in the lower classes while the higher class had better survival rates.

➔ Box Plot Interpretation



Interpretation

This chart compares the age distribution between those who survived and who didn't. It shows that there is a slightly younger median age for survivors. There are some outliers but it is clear to assume that the younger the passenger was the higher rate of survival they had.

Thank you!!