





Aliens



Not aliens



Training Data

SN	Triangle	Antenna	Teeth	Eyes	Alien
1	1	3	1	2	TRUE
2	1	3	0	2	TRUE
3	1	3	1	2	TRUE
4	1	3	0	3	TRUE
5	1	2	1	2	FALSE
6	0	3	0	3	FALSE
7	1	6	0	2	FALSE
8	0	3	0	2	FALSE

Which one is alien?



Δ

B

D

Ε

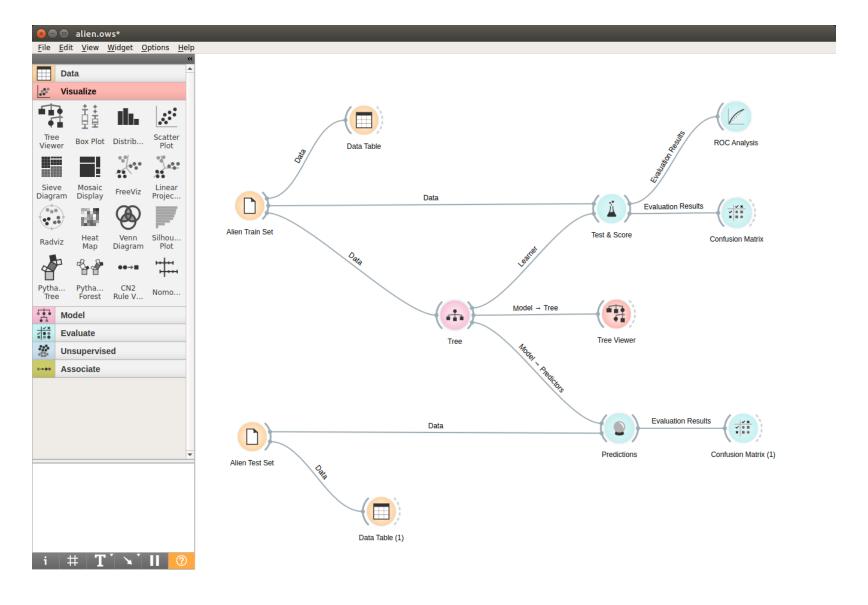
Test Data

SN	Triangle	Antenna	Teeth	Eyes	Alien
Α	1	2	0	2	FALSE
В	3	2	1	2	FALSE
С	1	4	0	2	FALSE
D	1	3	0	2	TRUE
Ε	0	3	0	2	FALSE





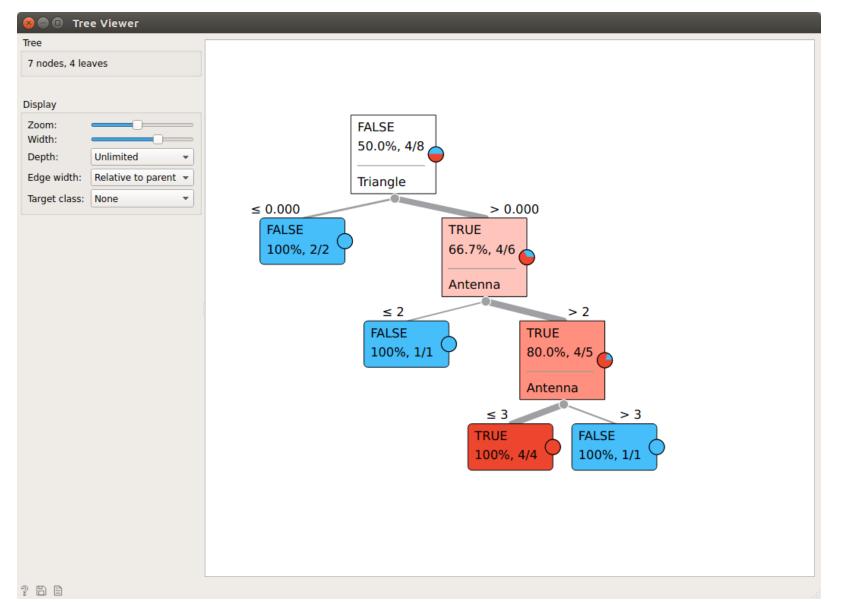








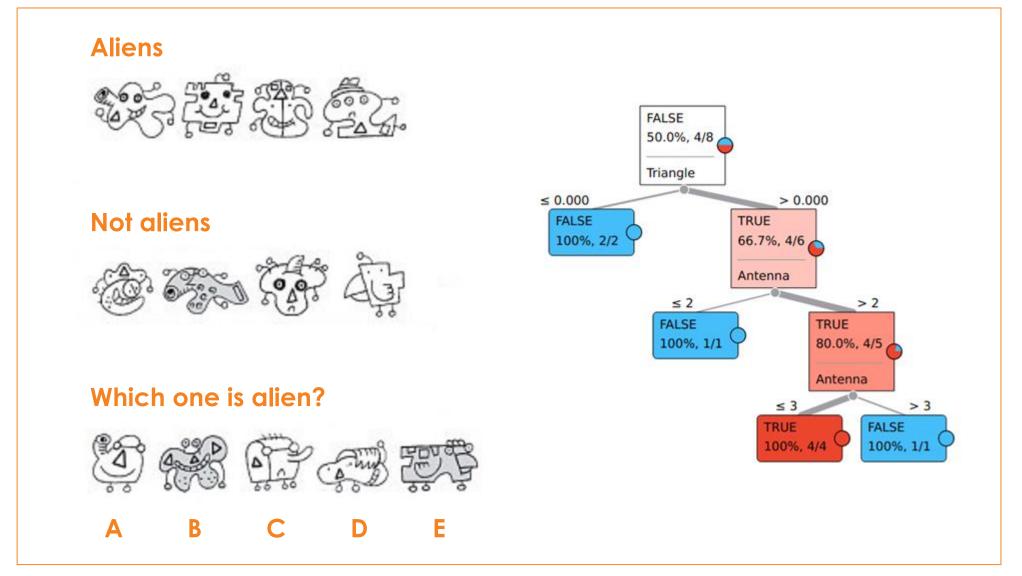








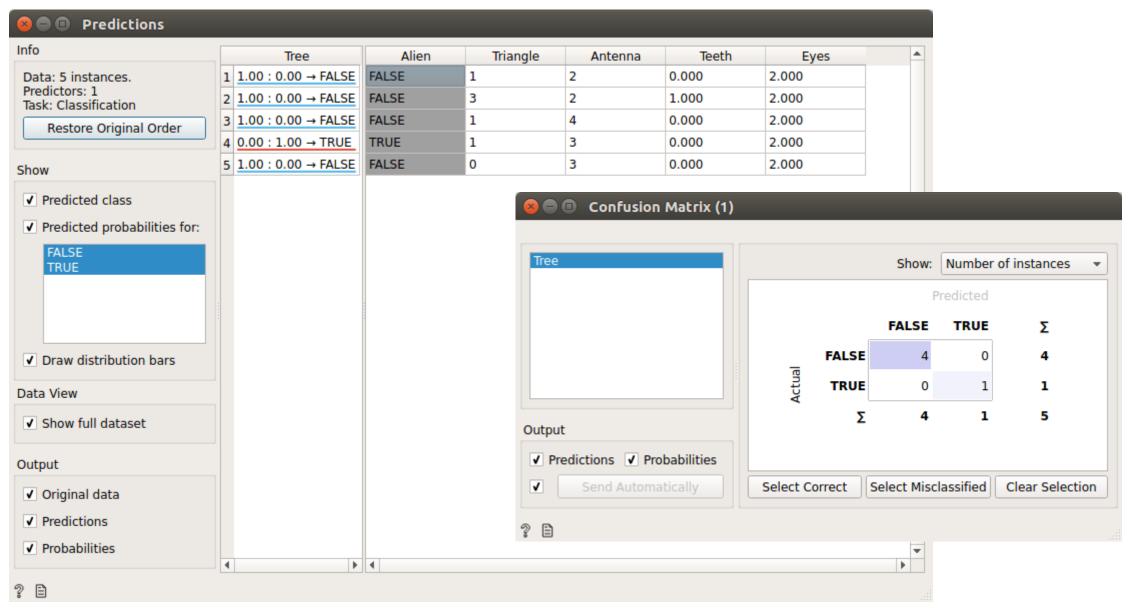










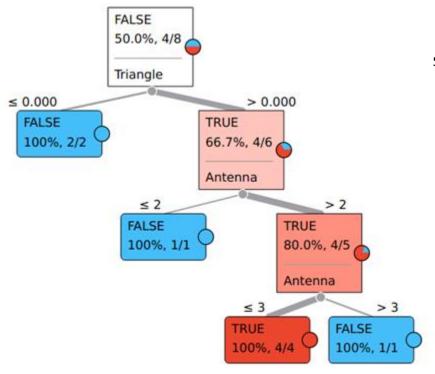






Predicted





Test Data

SN	Triangle	Antenna	Teeth	Eyes	Alien
Α	1	2	0	2	FALSE
В	3	2	1	2	FALSE
С	1	4	0	2	FALSE
D	1	3	0	2	TRUE
Ε	0	3	0	2	FALSE
F	2	3	0	2	FALSE

		FALSE	TRUE	Σ	
_	FALSE	4	1	5	
Actual	TRUE	0	1	1	
•	Σ	4	2	6	

	Tree	Alien	Triangle	Antenna	Teeth	Eyes
1	1.00 : 0.00 → FALSE	FALSE	1	2	0.000	2.000
2	1.00 : 0.00 → FALSE	FALSE	3	2	1.000	2.000
3	1.00 : 0.00 → FALSE	FALSE	1	4	0.000	2.000
4	0.00 : 1.00 → TRUE	TRUE	1	3	0.000	2.000
5	1.00 : 0.00 → FALSE		0	3	0.000	2.000
6	0.00 : 1.00 - TRUE	FALSE	2	3	0.000	2.000

Which one is alien?





The black swan, unseen before in historical data (no scenario/representation in training data)