

Image Viewer

Displays images that come with a data set.

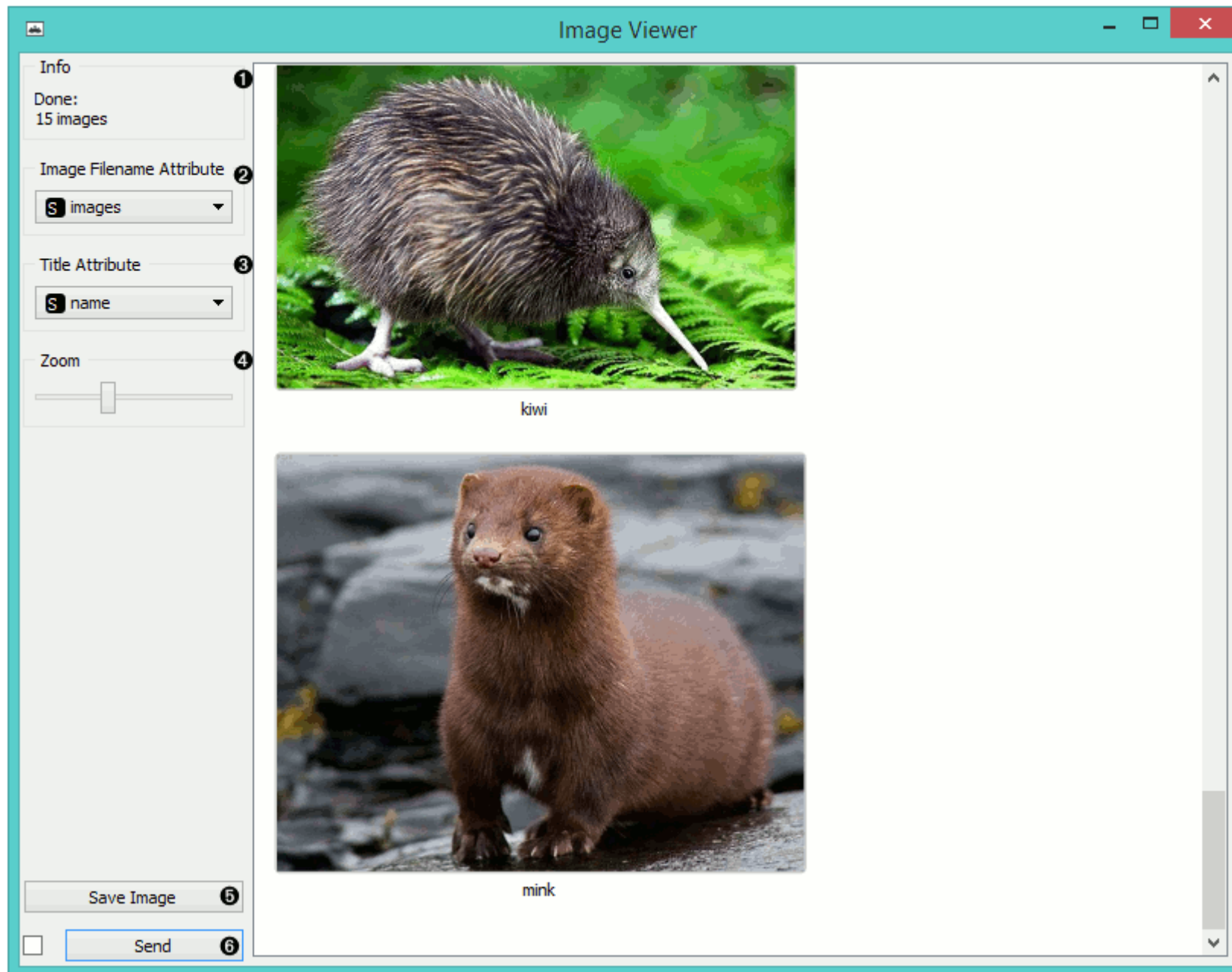
Inputs

- Data: A data set with images.

Outputs

- Data: Images that come with the data.
- Selected images: Images selected in the widget.

The **Image Viewer** widget can display images from a data set, which are stored locally or on the internet. The widget will look for an attribute with *type=image* in the third header row. It can be used for image comparison, while looking for similarities or discrepancies between selected data instances (e.g. bacterial growth or bitmap representations of handwriting).



1. Information on the data set
2. Select the column with image data (links).
3. Select the column with image titles.

4. Zoom in or out.
5. Saves the visualization in a file.
6. Tick the box on the left to commit changes automatically. Alternatively, click *Send*.

Examples

A very simple way to use this widget is to connect the **File** widget with **Image Viewer** and see all the images that come with your data set. You can also visualize images from **Import Images**.

The screenshot displays the Orange Data Mining interface. The main workspace contains a workflow with a 'File' widget connected to both an 'Image Viewer' widget and a 'Data Table' widget. The 'Image Viewer' widget is open, showing two images: a kiwi bird and a mink. The 'Data Table' widget is also open, displaying a table with 15 instances and 5 features.

Data Table Info:

- 15 instances (no missing values)
- 5 features (no missing values)
- Discrete class with 3 values (no missing values)
- 2 meta attributes (no missing values)

Variables:

- ☒ Show variable labels (if present)
- ☒ Visualize continuous values
- ☒ Color by instance classes

Selection:

- ☒ Select full rows

Buttons: Restore Original Order, Report, Send Automatically (checked).

Data Table Content:

	type	name	images	catsize	predator
1	mammal	antelope	http://i.imgur.c...	1	0
2	fish	bass	http://i.imgur.c...	0	1
3	mammal	bear	http://i.imgur.c...	1	1
4	mammal	boar	http://i.imgur.c...	1	1
5	fish	carp	http://i.imgur.c...	0	0
6	fish	catfish	http://i.imgur.c...	0	1
7	bird	chicken	http://i.imgur.c...	0	0
8	mammal	deer	http://i.imgur.c...	1	0
9	mammal	dolphin	http://i.imgur.c...	1	1
10	bird	duck	http://i.imgur.c...	0	0
11	bird	gull	http://i.imgur.c...	0	1
12	fish	haddock	http://i.imgur.c...	0	0

Image Viewer Info:

- Done: 15 images
- Image Filename Attribute: images
- Title Attribute: name
- Zoom: [Slider]
- Buttons: Save Image, Send

The Image Viewer displays two images: a kiwi bird (labeled 'kiwi') and a mink (labeled 'mink').

Alternatively, you can visualize only selected instances, as shown in the example below.

Image Viewer*

File Edit View Widget Options Help

Classification Tree Classification Tree Viewer Image Viewer

File Data Table

Classification Tree Viewer

Tree
7 nodes, 4 leaves

Display
Zoom:
Width:
Depth: Unlimited
Edge width: Relative to parent
Target class: None

1
bird
100%, 4/4

0
mammal
46.7%, 7/15
feathers

1
mammal
63.6%, 7/11
fins

0
mammal
100%, 6/6

1
fish
80.0%, 4/5
predator

0
fish
100%, 2/2

1
fish
66.7%, 2/3

Image viewer

Info
Done: 4 images

Image Filename Attribute
S images

Title Attribute
S name

Zoom

Save Image
☐

Send

chicken

duck

```
graph LR; File[File] --> CT[Classification Tree]; File --> DT[Data Table]; CT --> CTV[Classification Tree Viewer]; CTV --> IV[Image Viewer];
```

The decision tree structure is as follows:

- Root node: feathers (mammal 46.7%, 7/15)
 - Left branch (1): bird (100%, 4/4)
 - Right branch (0): mammal (63.6%, 7/11) with attribute fins
 - Left branch (1): fish (80.0%, 4/5) with attribute predator
 - Left branch (0): fish (100%, 2/2)
 - Right branch (1): fish (66.7%, 2/3)
 - Right branch (0): mammal (100%, 6/6)

