

Installing Orange

Reading Data in Orange

Installing Orange 3.0

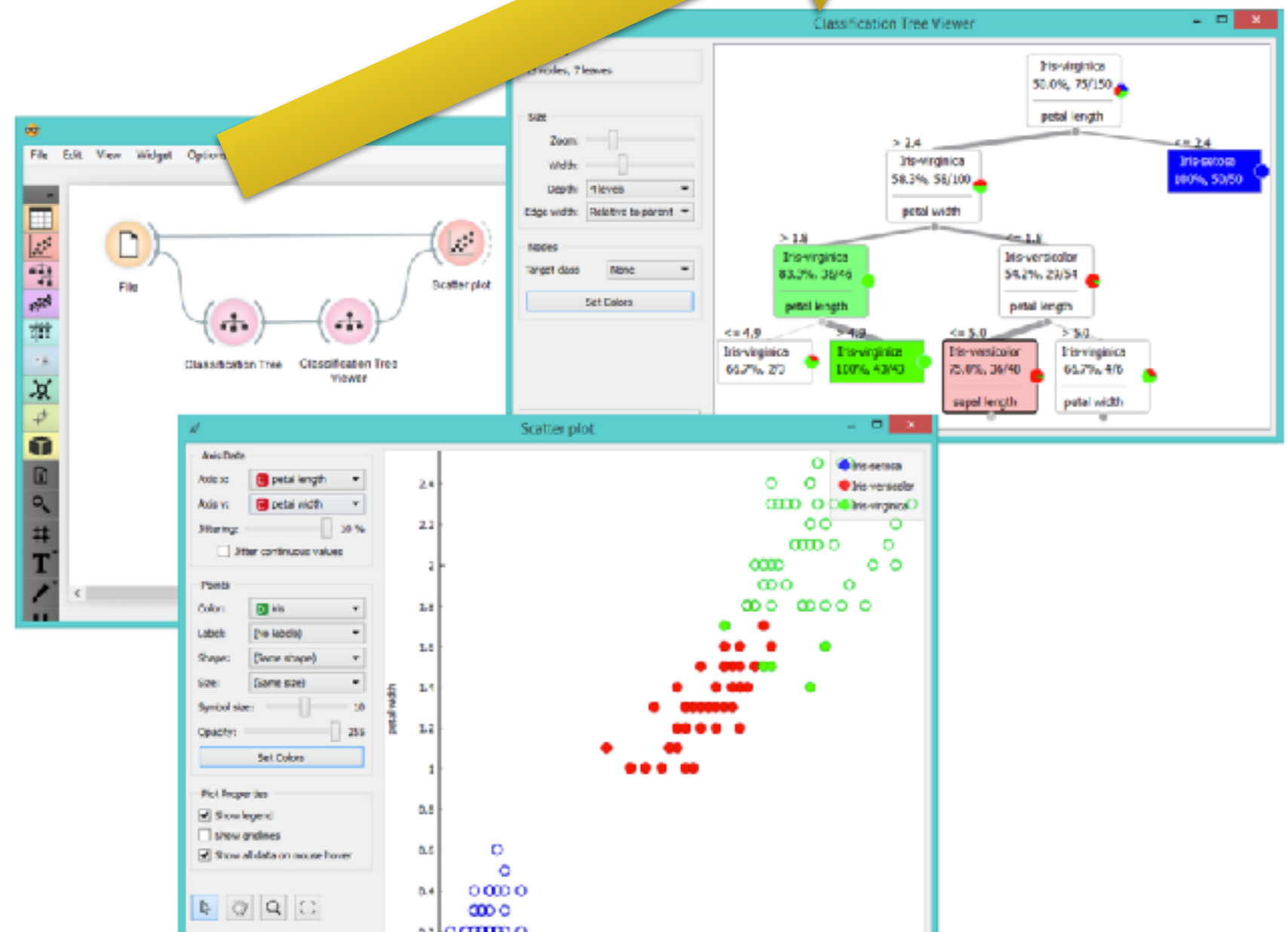
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Data Mining Fruitful and Fun

Open source data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.

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The **old version**, Orange 2.7, is still available.



Reading Data in Orange

Data Format

- Files in tab-delimited format (“orange.tab”) ←— DEFAULT
- Files in csv format (“orange.csv”) ←— SIMPLIFIED HEADER
- Files in excel format (“orange.xlsx”)

Data Format (header)

3 header lines (rows) in tab format

ROW1: feature names

ROW2: feature types

- continuous (c), discrete (d), text (s), basket

ROW3: optional flags

- ignore (i), class (c), multiclass, meta (m)

sepal length	sepal width	petal length	petal width	iris
c	c	c	c	d
				class
5.1	3.5	1.4	0.2	Iris-setosa
4.9	3.0	1.4	0.2	Iris-setosa
4.7	3.2	1.3	0.2	Iris-setosa
4.6	3.1	1.5	0.2	Iris-setosa

iris.tab

Simplified header

- Instead of a three-line header a single-line header can be used with tags listed before feature names and separated from a feature name with a hash (“#”) sign. Supported tags are:

c for class feature

i for feature to be ignored

m for the meta attribute

C for continuous-typed feature

D for discrete feature

S for string

```
C#sepal length  iC#sepal width  mC#petal length mC#petal width  cD#iris
5.1      3.5      1.4      0.2      Iris-setosa
4.9      3.0      1.4      0.2      Iris-setosa
4.7      3.2      1.3      0.2      Iris-setosa
```

iris.csv

Iris Dataset

classification task (3 classes)



Iris
Setosa

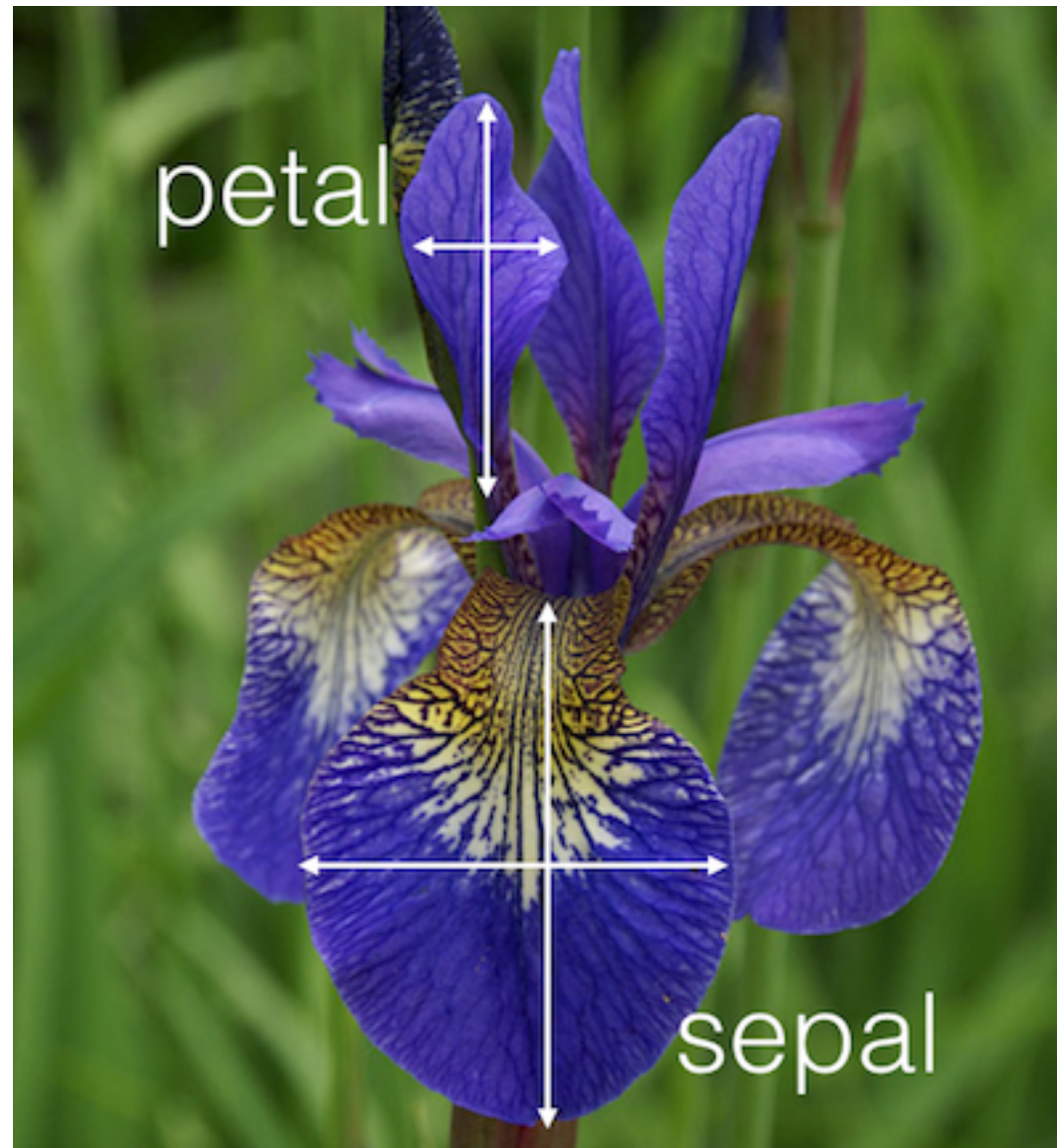


Iris
Versicolor



Iris
Virginica

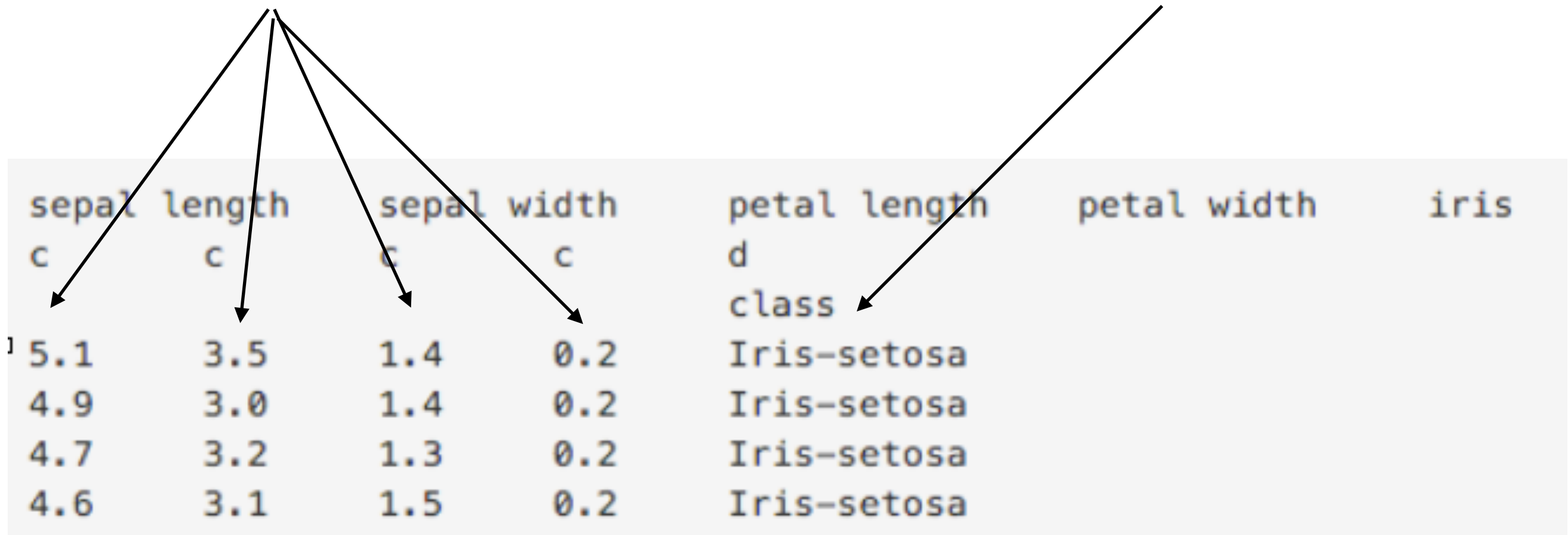
Iris Dataset - 4 features



sepal length	sepal width	petal length	petal width	iris
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4 continuous values per row + class label

4 continuous values per row + class label



The diagram illustrates the relationship between the title and the data columns. Four arrows originate from the text '4 continuous values per row + class label' and point to the columns: 'sepal length', 'sepal width', 'petal length', and 'petal width'. A fifth arrow points from the same text to the 'iris' column, which contains the class labels.

sepal length c	sepal width c	petal length d	petal width c	iris class
5.1	3.5	1.4	0.2	Iris-setosa
4.9	3.0	1.4	0.2	Iris-setosa
4.7	3.2	1.3	0.2	Iris-setosa
4.6	3.1	1.5	0.2	Iris-setosa