**Components with KNIME Analytics Platform**

**Components Description**
Documents the purpose and usage of the component and defines the appearance of the component. To access and edit the component description, open the component from inside the component and select the empty canvas.

**Description**
Provides the text describing the use case, requirements, licensing and other terms, disclaimers, and any other extra information you would like to add.

**List Port**
Drag and drop a PnG icon from your local file system. The icon will appear on the component, giving it a unique look.

**Color**
Usually the color of nodes and components is associated with a specific category. Pick the category that best fits your use case. The color appears behind the logo.

**In/Out Port**
Describe the ports requirements here. For example: What kind of input/output types are supported? Are there new columns/rows in the output? Does the input/output connect only to a supported? Are there new rows/columns in the output? Does the component fail on purpose.

**Options**
Describe the component description also lists all the settings available inside the component dialog. To add text describing the settings usage open each configuration node dialog and enter there node by node.

**Components That Support Configuration**
You can still change component names and ports after a component creation. The preferred test field to edit the title, buttons to change the order, remove or add. when adding a new node, a drop down menu appears to define the port type.

**Components That Don’t Support Configuration**
Components behave like actual nodes and are regularly released on the KNIME Hub. Browse them all at knime.com/verified-component. Each new component is assigned to one of the 5 categories, represented by a color and symbol.

**Guided Analytics Example**
Trains classification models and displays the best one in an automated fashion. The component adopts an integrated deployment workflow to enable end-to-end process as an optimized workflow.

**Visualization Example**
Visualizations are the result of a visual design over time via a Generative JavaScript view. Each visual bar represents a different component in totaling with the others in a smooth animation.

**Data Manipulation Example**
A series of transformations have been implemented via the KNIME Data Manipulation Extension. Use it to learn how to reliably package your Python scripts for other KNIME users.

**Time Series Example**
Trains in Python a SARIMA (Seasonal ARIMA) model. This model is a perfect option when designing forecasts on data with seasonal or cyclic patterns.

**Text Processing Example**
Saves a Java based library to extract the main textual content from a web page to analyze online trends for Search Engine Optimization (SEO).

**Life Science Example**
Selects a subset of molecules based on molecular properties via RDKit nodes. The Interactive View depicts the properties and structural formula of the selected molecules.

**Error Handling**
Fails on purpose when a certain condition is met. A custom error message appears on the node and on the outside of the component. Use it to detect errors or configurations of the component that satisfy minimum requirements and proceed to share the component. The message on what should be fixed after making the component fail on purpose.

**Variables**
Displays the name and type for any variables or properties in the component.

**Web Text Scraper**
Creates a paragraph of either free, preformatted, or fixed-width text. Useful to describe the steps the user should follow, from top to bottom.

**Configure**
If you included a Configuration node in the component you can still edit it, but first you need to break the link, node that then you won’t be able to get updates anymore.
A Guide to KNIME Analytics Platform for Beginners

Authors: Satoru Hayasaka and Rosaria Silipo

File Reader
original data set

Partitioning
80 vs. 20

Decision Tree
Learner
to
predict income

Decision Tree
Predictor
attach class
probabilities

Scorer
confusion matrix
+
scores

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