

# Workflow Elements and Connections

The [Scene](#) is initially empty and you start with creating a workflow on it:

## workflow

A workflow is a visual representation of the dataflow. It consists of workflow elements and their connections.

## workflow element

An element of a workflow. Different elements are used to read data from files on disk, perform some algorithms and to write data to files on disk. Each element contains one or several input and output ports.

## element connection

Connection between two elements specifies that data in output port of one element should be passed to a matching input port of another element.

## input port

An input port of an element is used to collect data from another element. On the Scene it is displayed as prominent knob on an element with opened bubble.

## output port

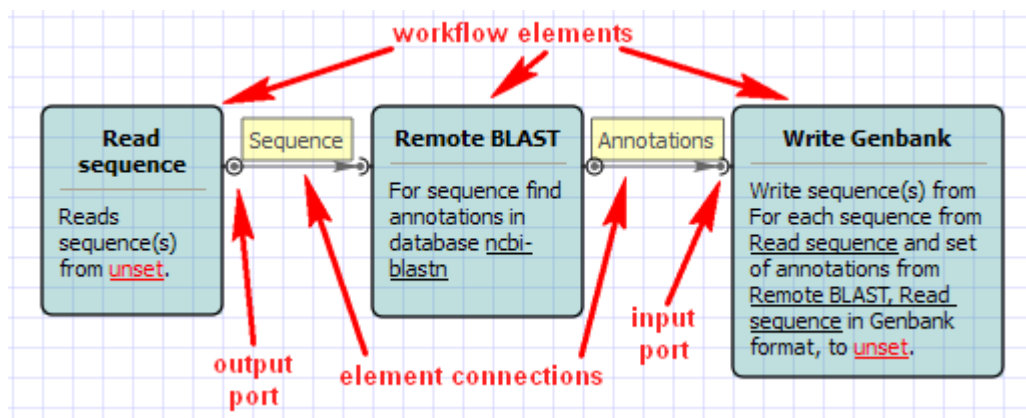
An output port of an element is used to provide data to another element. On the Scene it is displayed as prominent knob on an element with closed bubble.

## slot

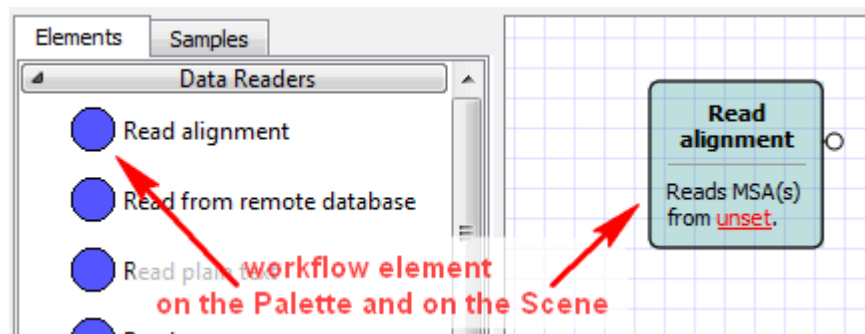
A slot specifies the kind of data that can be passed through it (for example Sequence, Set of annotations, etc.)

The Scene is initially empty and you start with creating a workflow on it:

See an example of a workflow on the image below:

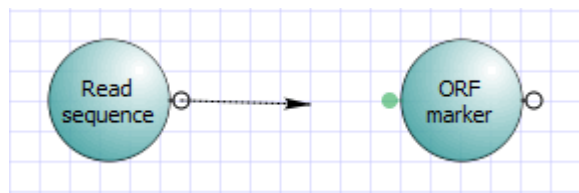


Your first step is to [add](#) necessary workflow elements, for example, by dragging them from the [Palette](#) to the Scene:



The added element can be moved around on the Scene by dragging it and can be resized by dragging its borders. Read chapter [Manipulating Element](#) to learn what else you can do with workflow elements.

If you have two elements with matching output and input ports, you can make the connection by dragging the arrow between the ports:



All matching ports of available processes are highlighted while you drag the arrow, besides the arrow sticks to a near match when you drag closer. If an element has a sole matching port, you can just drop the arrow on the element itself to create a correct connection.

Once created, a connection will follow movements of the linked elements; you cannot redirect or reshape the connection arrow but only remove it. You can move the port around an element that it belongs to by dragging it and holding the Alt key at the same time. This is helpful to fine-tune visual layout of a workflow.