CoalGas V1.0

User Guide

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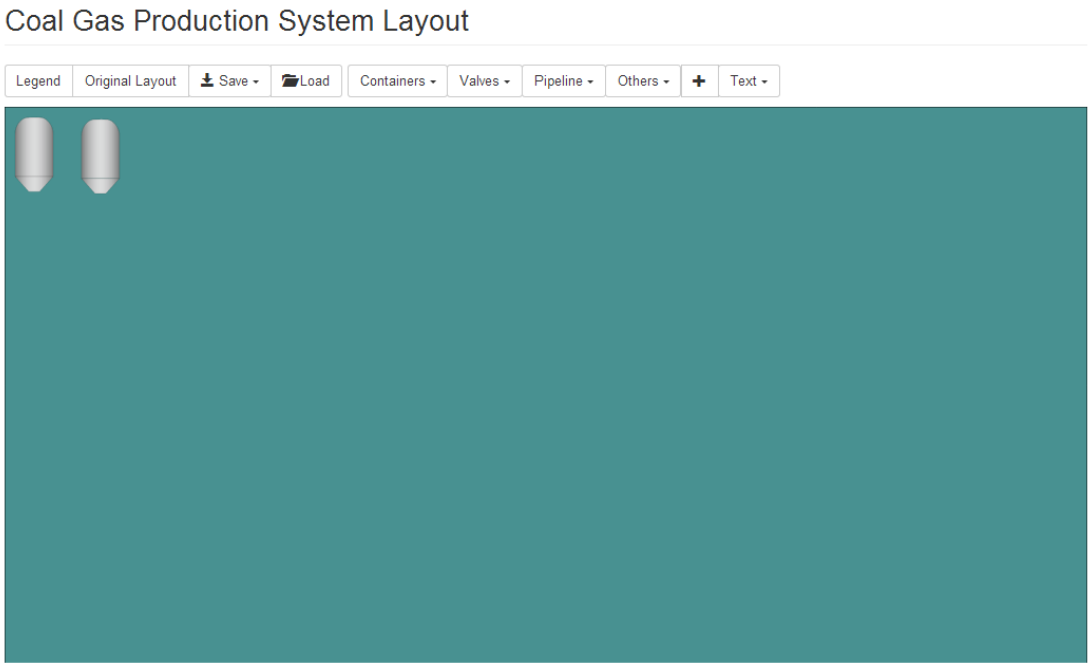
PKU Visualization and Visual Analytics Group



Introduction

CoalGas is intended to be used as a visualization tool to monitor the reaction progress of a coalification system. Users' own system layout can be built up by a series of interactive actions. This document provides information on how to use CoalGas.

Usage

See legend

By clicking the “Legend” button, you can see the legend of devices in CoalGas.

See original layout

The original layout picture will be showed by clicking “Original Layout” button.

Add a device

By selecting the type in the menu of containers, valves, pipeline and others and clicking “+” button, you can create a device on the top left corner of the canvas. You can move the device’s position by dragging it and scale it by dragging the four points on its corners. A right click on the device will show you some advanced options like rotate and delete.

Add a text

By selecting the “Text” button and clicking “+” button, you can create a text field on the top left corner of the canvas. To edit the text, simply double click on the text filed, update the entry and select its font color. You can move the text’s position by dragging it and scale it by dragging the four points on its corners. A right click on the text will show you some advanced options like rotate and delete.

Rotate an object

By selecting an object and right clicking on it, you can select the “Rotate” option to rotate the object by 90 degrees.

Delete an object

By selecting an object and right clicking on it, you can select the “Delete” option to remove the object. **Note: You can’t undo this action.**

Copy an object

By selecting an object and right clicking on it, you can select the “Copy” option to create a same object near the old one.

Add a link

If two devices are linked by a pipe, you can create a link between them in a few steps below. First, select the source object, right click on it. Then, select “Link to” option to create a pipe. Finally, drag the pipe to the destination object and end the link by double clicking on a blank area. Links must be set up between two metafiles, which means texts and links can’t be linked.

Save a layout

If you have built up the layout or want to pause your work, click “Save” button to save your work. You can either save the layout as a SVG file or a Layout file. The latter keeps more information but is supported only by CoalGas.

Load a layout

If there exists a Layout file already, you can draw the layout by clicking the “Load” button and selecting the file.