CWL Viewer

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CWL Viewer: The Common Workflow Language Viewer

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Project Website: https://view.commonwl.org/
Source Code: https://github.com/common-workflow-language/cwlviewer

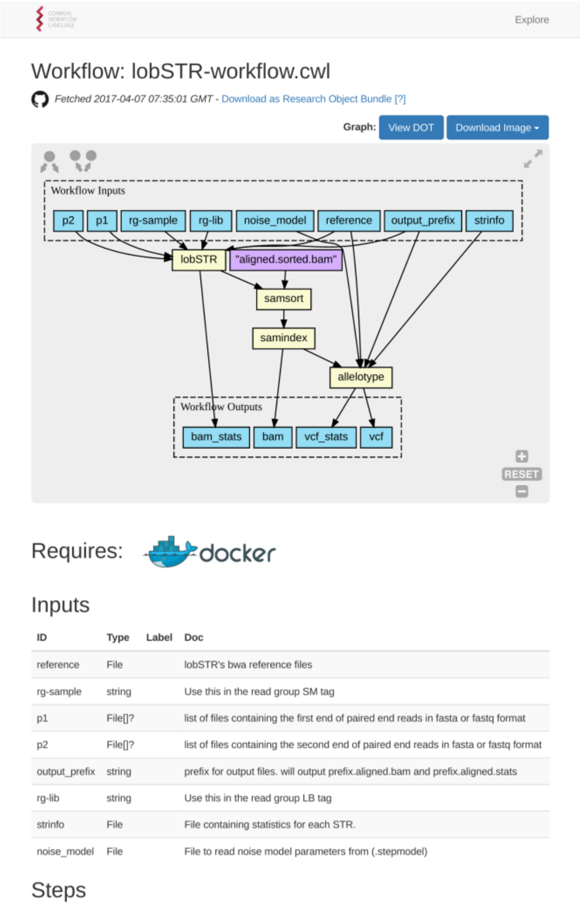
Abstract

The Common Workflow Language (CWL) project emerged from the BOSC 2014 Codefest as a grassroots, multi-vendor working group to tackle the portability of data analysis workflows. It's specification for describing workflows and command line tools aims to make them portable and scalable across a variety of computing platforms.

At its heart CWL is a set of structured text files (YAML) with various extensibility points to the format. However, the CWL syntax and multi-file collections are not conducive to workflow browsing, exchange and understanding: for this we need a visualization suite.

CWL Viewer is a richly featured CWL visualization suite that graphically presents and lists the details of CWL workflows with their inputs, outputs and steps. It also packages the CWL files into a downloadable Research Object Bundle including attribution, versioning and dependency metadata in the manifest, allowing it to be easily shared. The tool operates over any workflow held in a GitHub repository. Other features include: path visualization from parents and children nodes; nested workflows support; workflow graph download in a range of image formats; a gallery of previously submitted workflows; and support for private git repositories and public GitHub including live updates over versioned workflows.

The CWL Viewer is the de facto CWL visualization suite and has been enthusiastically received by the CWL community.



Workflow: lobSTR-workflow.cwl

Fetched 2017-04-07 07:35:01 GMT - Download as Research Object Bundle [?]

Requires:

Inputs

ID	Type	Label	Doc
reference	File		lobSTR's bwa reference files
rg-sample	string		Use this in the read group SM tag
p1	File[]?		list of files containing the first end of paired end reads in fasta or fastq format
p2	File[]?		list of files containing the second end of paired end reads in fasta or fastq format
output_prefix	string		prefix for output files. will output prefix.aligned.bam and prefix.aligned.stats
rg-lib	string		Use this in the read group LB tag
strinfo	File		File containing statistics for each STR.
noise_model	File		File to read noise model parameters from (.stepmodel)

Steps