

Embedding workflows in L^AT_EX using crowdLabs

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Abstract

This article shows how to embed images from workflows stored on www.crowdlabs.org in a L^AT_EX document. The images can be workflow results, workflow graphs or VisTrails' history trees.

1 Introduction

After uploading your workflows to crowdLabs¹, you need the following requirements in order to embed the workflows in the L^AT_EX file:

- Python (www.python.org)
- the file `crowdlabs.sty`
- and the file `includecrowdlabs.py`

Both `crowdlabs.sty` and `includecrowdlabs.py` are located in the same directory as this document and they should be copied to the same folder that your main document is located.

1.1 Preparing the L^AT_EX document

After copying the files, you need to configure your document. In the preamble of the L^AT_EX file add the `crowdlabs` package:

```
\usepackage{crowdlabs}
```

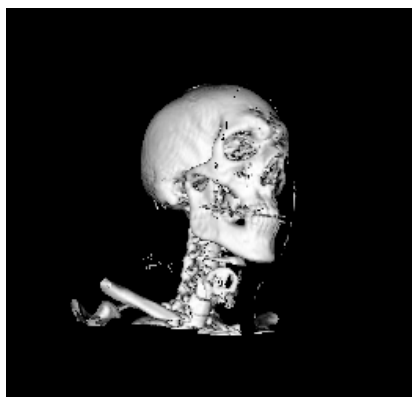
As we mentioned before, the crowdLabs package requires Python to run. If the python executable is not accessible in the PATH, you will need to set the `\pythonpath` command with the correct path for your environment:

```
\renewcommand{\pythonpath}{C:/Python27/python.exe}
```

Also, by default, [crowdlabs.org](http://www.crowdlabs.org) will be used as the main server, but you can use your own crowdLabs server setting the `\urlcrowdlabs` command:

```
\renewcommand{\urlcrowdlabs}{http://yourcrowdlabsserver.com}
```

¹Please visit http://www.crowdlabs.org/site_media/static/user_docs/vistrails_usage.html if you need instructions on how to publish workflows to crowdLabs



2 Embedding workflows

If you go to `crowdlabs.org` and visit the details page of the workflow you would like to embed, you will see a tab just below the resulting image, named **Embed this Workflow**. Clicking on it, will display snippets you can use to embed that particular workflow in different types of documents. So copy the text displayed in the **Ln LaTeX** box. For example, we will embed the image produced by the workflow **Isosurface**².

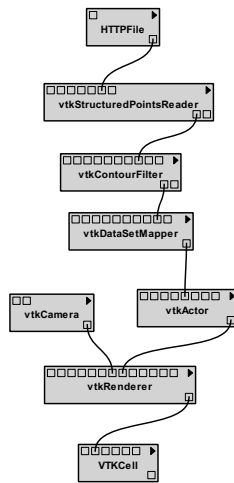
We copied and pasted the following text into this document:

```
\crowdlabs[wfid=1054,  
  buildalways=false]{width=0.45\linewidth}
```

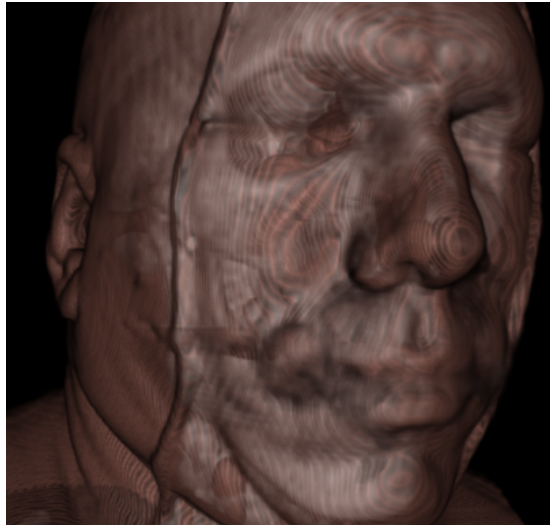
And it generated the image in Figure 2.

This is the workflow that generated the image above:

²<http://www.crowdlabs.org/vistrails/workflows/details/1054/>



This was using volume rendering:



This is the vistrail containing the workflows above:

