
Demo of PDF Generation

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Sandbox repo to create a PDF with Sphinx (not that easy!)

1.1 Repo goals

Manage Sphinx project with `mudkip`:

- use `[mudkip.override]` in `mudkip.toml` instead of `conf.py`
- make latex with `mudkit build --preset latex --output-dir docs/_latex`

Create a PDF in Github Codespaces:

- bash script to install latex and other dependencies `start.sh`
- script to invoke PDF build: `just pdf (pdflatex demo.tex)`
- **TODO: build pdf with Cyrillic characters**

Result: `demo.pdf`

Non-goals:

- Build container with latex installed
- Automate PDF creation (e.g. in Github Actions)
- Switch to MyST `index.md`
- Configure VS Code for TOML viewing
- Add `.mp4` to latex

1.2 Failure points

1. `pdflatex` will fail here after encountering Cyrillic letter:

- Точки отказа
- Очень проблемная буква: ё, Ё

2to3

A tool that tries to convert Python 2.x code to Python 3.x code by handling most of the incompatibilities which can be detected by parsing the source and traversing the parse tree.

2to3 is available in the standard library as `lib2to3`; a standalone entry point is provided as `Tools/scripts/2to3`. See [2to3 — Automated Python 2 to 3 code translation](#).

abstract base class

Abstract base classes complement [duck-typing](#) by providing a way to define interfaces when other techniques like `hasattr()` would be clumsy or subtly wrong (for example with [magic methods](#)). ABCs introduce virtual subclasses, which are classes that don't inherit from a class but are still recognized by `isinstance()` and `issubclass()`; see the `abc` module documentation. Python comes with many built-in ABCs for data structures (in the `collections.abc` module), numbers (in the `numbers` module), streams (in the `io` module), import finders and loaders (in the `importlib.abc` module). You can create your own ABCs with the `abc` module.