

sdf2ppt: Creating Powerpoints from SDFiles

Daniel Kuhn

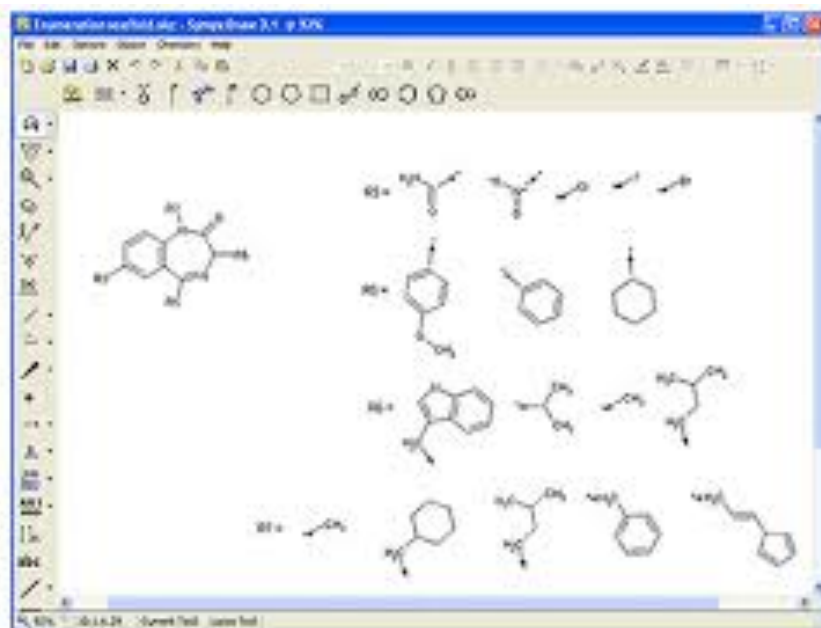
RDKit UGM 2014

Global Computational Chemistry

How do you discuss compound ideas with your chemist?

“Could you model these compounds?”

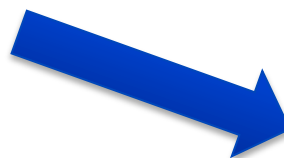
How to track the discussion and prioritization of the compounds?



HTML table (PP)
→ Not interactive



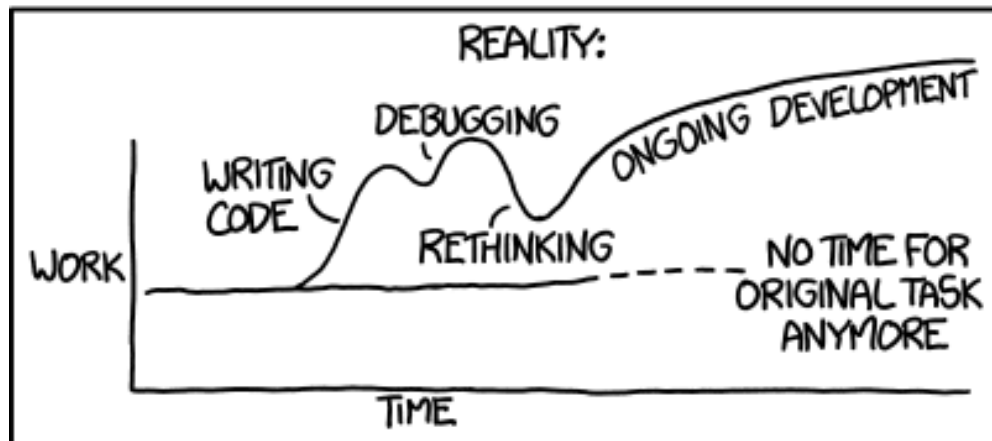
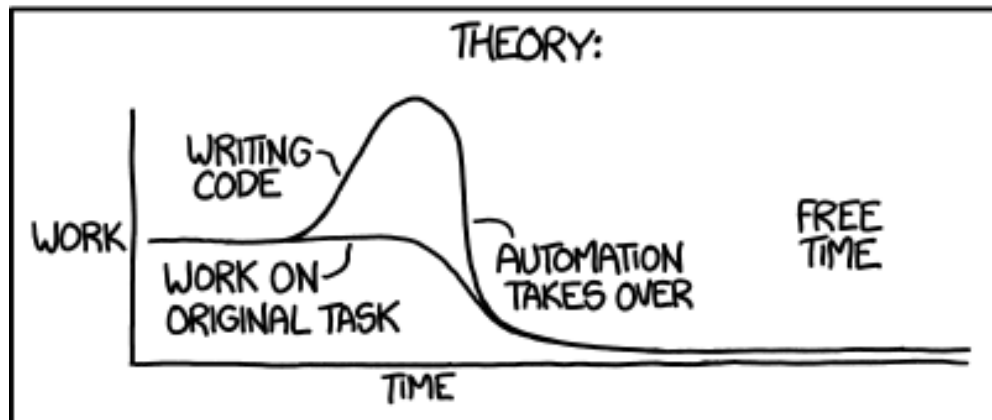
Copy from Isis to PPT
→ Tedious
→ No info about cpd names



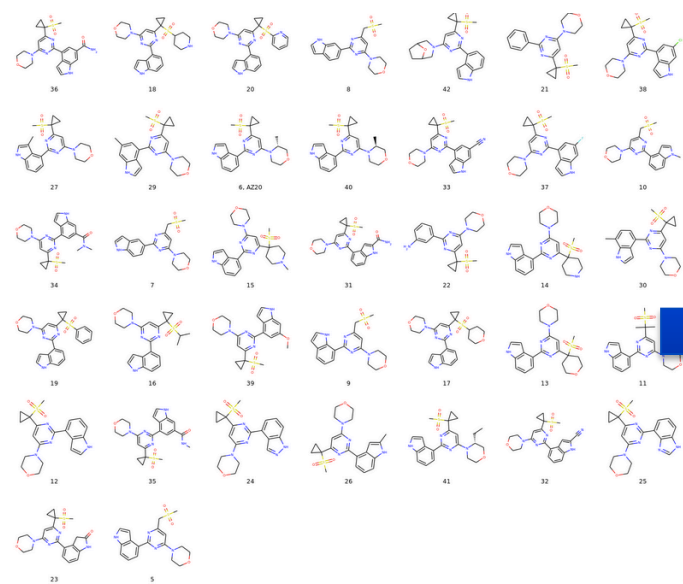
...

I should automate this!

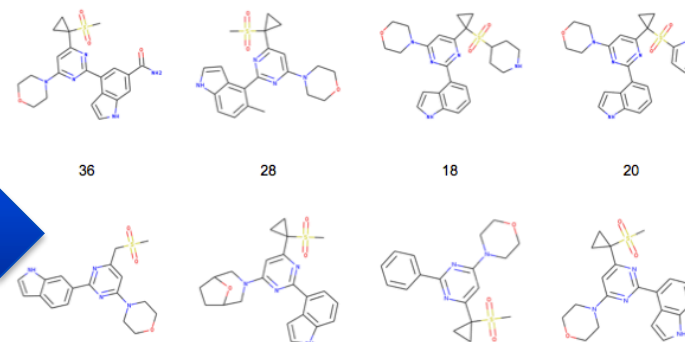
"I SPEND A LOT OF TIME ON THIS TASK.
I SHOULD WRITE A PROGRAM AUTOMATING IT!"



Wouldn't it be great ...



Docking Results for atr_ligands.sdf 1/5



sdf



python-pptx — python-pptx

python-pptx.readthedocs.org/en/latest/

python-pptx 0.5.1 documentation »

nextmodulesIndex

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Useful Links

- python-pptx @ GitHub
- python-pptx @ PyPI
- Issue Tracker

Quick search

Go

Enter search terms or a module, class or function name.

python-pptx

Release v0.5.1 ([Installation](#))

build passing

python-pptx is a Python library for creating and updating PowerPoint (.pptx) files.

A typical use would be generating a customized PowerPoint presentation from database content, downloadable by clicking a link in a web application. Several developers have used it to automate production of presentation-ready engineering status reports based on information held in their work management system. It could also be used for making bulk updates to a library of presentations or simply to automate the production of a slide or two that would be tedious to get right by hand.

More information is available in the [python-pptx documentation](#).

Browse [examples with screenshots](#) to get a quick idea what you can do with python-pptx.

Feature Support

python-pptx has the following capabilities, with many more on the roadmap:

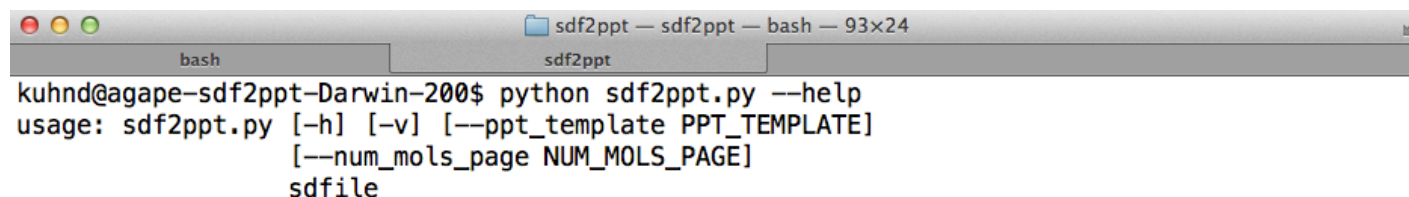
- Round-trip any Open XML presentation (.pptx file) including all its elements
- Add slides
- Populate text placeholders, for example to create a bullet slide
- Add image to slide at arbitrary position and size
- Add textbox to a slide; manipulate text font size and bold
- Add table to a slide
- Add auto shapes (e.g. polygons, flowchart shapes, etc.) to a slide
- Add and manipulate column, bar, line, and pie charts
- Access and change core document properties such as title and subject

Additional capabilities are actively being developed and added on a release cadence of roughly once per month. If you find a feature you need that python-pptx doesn't yet have, reach out via the mailing list or issue tracker and we'll see if we can jump the queue for you to pop it in there :)

v: latest

sdf2ppt

Reads an SDFFile and displays molecules as image grid in powerpoint/openoffice
Name of compounds are editable



```
kuhnd@agape-sdf2ppt-Darwin-200$ python sdf2ppt.py --help
usage: sdf2ppt.py [-h] [-v] [--ppt_template PPT_TEMPLATE]
                [--num_mols_page NUM_MOLS_PAGE]
                sdffile
```

sdf2ppt - Reads an SDFFile and displays molecules as image grid in powerpoint/openoffice

#Contact: daniel.kuhn@merckgroup.com - 2014 - Merck Serono

positional arguments:

 sdffile sdffile with ligands of interest

optional arguments:

 -h, --help show this help message and exit
 -v, --verbose Set verbosity level
 --ppt_template PPT_TEMPLATE, -p PPT_TEMPLATE
 Powerpoint template file
 --num_mols_page NUM_MOLS_PAGE
 Number of molecules per slide

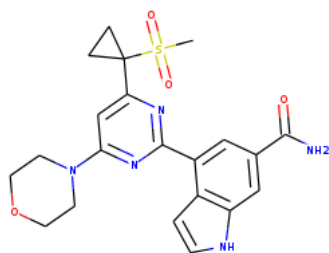
kuhnd@agape-sdf2ppt-Darwin-201\$ █

[sdf2ppt on GitHub](#)

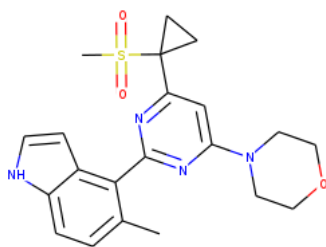
Title of ppt

Daniel Kuhn

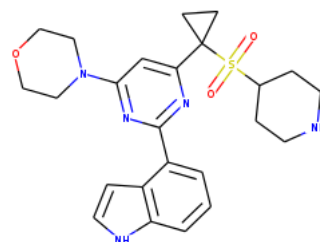
Docking Results for atr_ligands.sdf 1/5



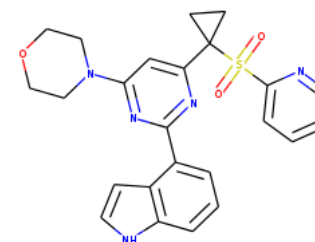
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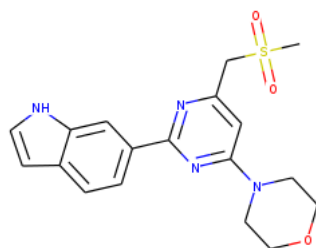
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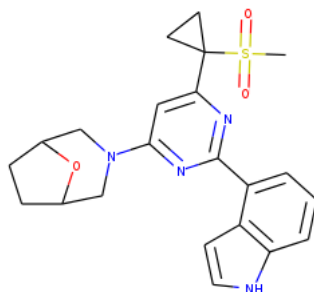
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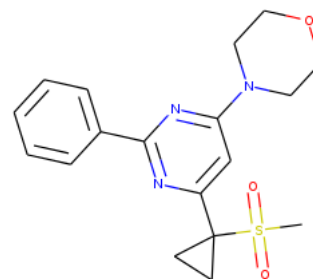
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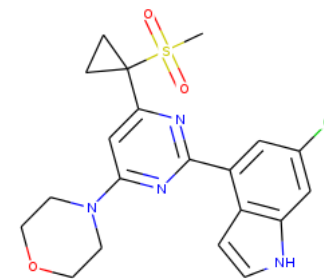
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