THE UNIVERSITY OF WAIKATO
Te Whare Wānanga o Waikato

NIKOLA

# Static Website Generator written in Python

Peter Reutemann

# What?

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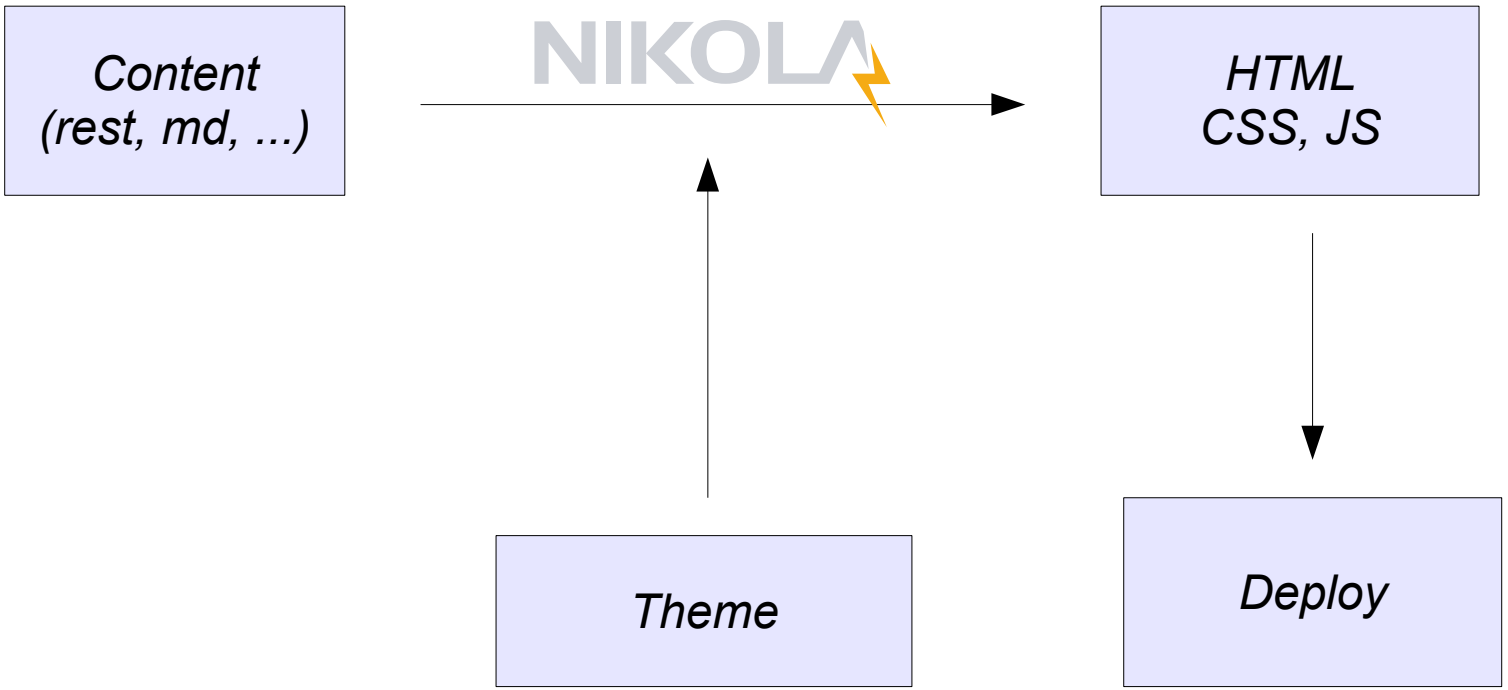
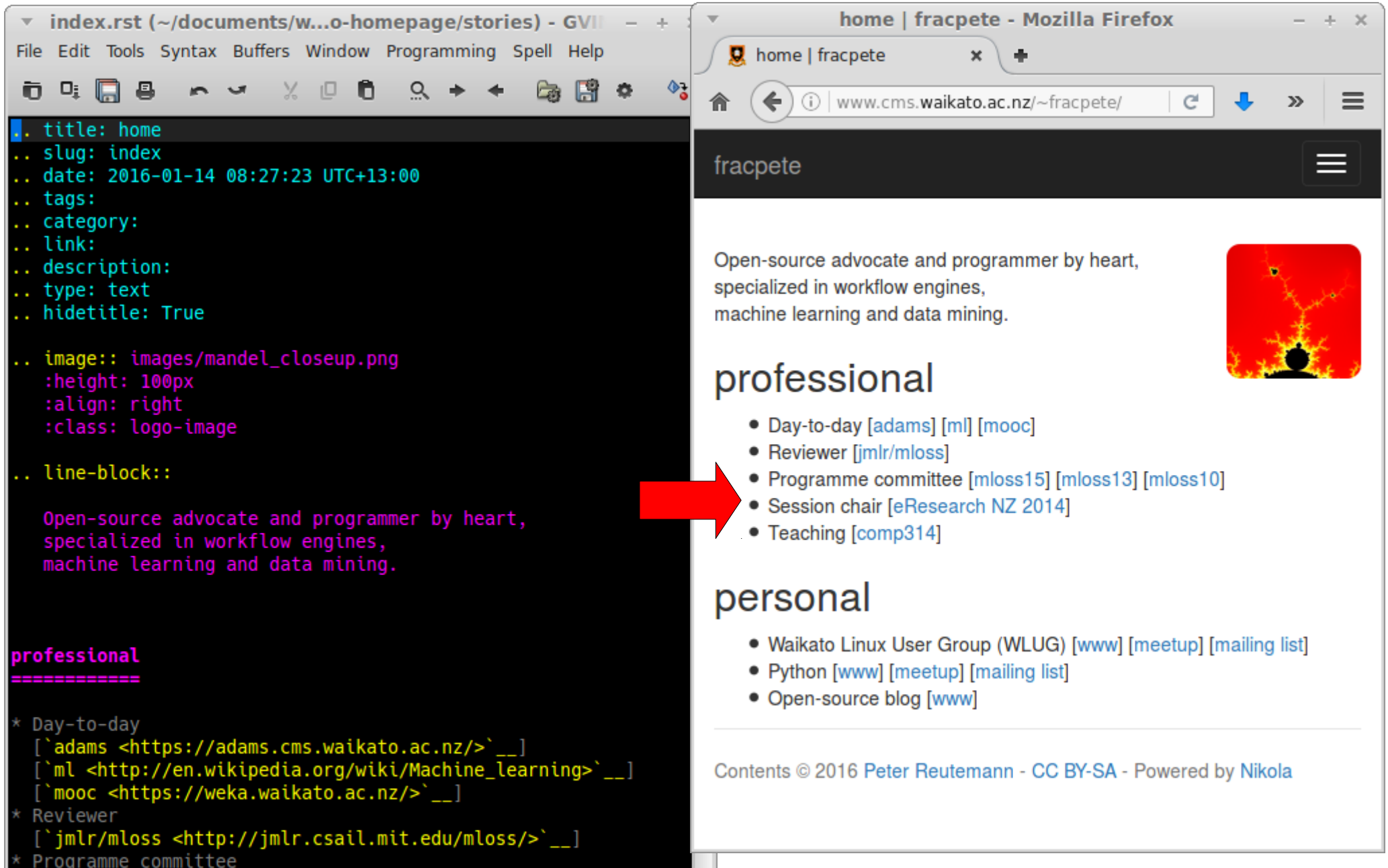
- WordPress powers 25% of all websites

  http://venturebeat.com/2015/11/08/wordpress-now-powers-25-of-the-web/
- anachronistic?
- static content
  - fast, easy on resources
  - no security issues (eg SQL injections)
- features
  - Python 3.3, extensible (plugins, themes)
  - incremental builds (only new stuff)
  - pages, blog, comments, tags, RSS, galleries, WP import, ...

# How?



# Example


index.rst (~/documents/w...o-homepage/stories) - GVI
File Edit Tools Syntax Buffers Window Programming Spell Help
.. title: home
.. slug: index
.. date: 2016-01-14 08:27:23 UTC+13:00
.. tags:
.. category:
.. link:
.. description:
.. type: text
.. hidetitle: True
.. image:: images/mandel_closeup.png
:height: 100px
:align: right
:class: logo-image
.. line-block::
Open-source advocate and programmer by heart,
specialized in workflow engines,
machine learning and data mining.
professional
==========
* Day-to-day
[`adams <https://adams.cms.waikato.ac.nz/>`__]
[`ml <http://en.wikipedia.org/wiki/Machine_learning>`__]
[`mooc <https://weka.waikato.ac.nz/>`__]
* Reviewer
[`jmlr/mloss <http://jmlr.csail.mit.edu/mloss/>`__]
* Programme committee
home | fracpete - Mozilla Firefox
home | fracpete
www.cms.waikato.ac.nz/~fracpete/
fracpete
Open-source advocate and programmer by heart,
specialized in workflow engines,
machine learning and data mining.
professional
Day-to-day [adams] [ml] [mooc]
Reviewer [jmlr/mloss]
Programme committee [mloss15] [mloss13] [mloss10]
Session chair [eResearch NZ 2014]
Teaching [comp314]
personal
Waikato Linux User Group (WLUG) [www] [meetup] [mailing list]
Python [www] [meetup] [mailing list]
Open-source blog [www]
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# Websites

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- Nikola (of course) - https://getnikola.com/
- examples - https://users.getnikola.com/
- my own pages
  - uni homepage - http://www.cms.waikato.ac.nz/~fracpete/
  - ADAMS - https://adams.cms.waikato.ac.nz/
  - ACML 2016 conference - http://acml-conf.org/2016/

# Hands-on

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- Create our own website
  - nikola init [-q]
- Test the site
  - nikola build
  - nikola serve [-b]
- Add content
  - “stories” for pages
    - nikola new_page
  - “posts” for blogging
    - nikola new_post

# Customize

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- Menu
  - conf.py - NAVIGATION_LINKS
- Theme
  - create directory “themes”
  - copy theme into it, e.g.:

    /usr/local/lib/python3.4/dist-packages/nikola/data/themes/bootstrap3
  - remove minimized files/maps
  - conf.py - THEME

# Customize (2)

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- No blog? No problem:

  https://getnikola.com/creating-a-site-not-a-blog-with-nikola.html
- conf.py
  - remove POSTS
  - remove sub-path for PAGES
  - INDEX_PATH = “blog” (avoids clash with index page)
  - create new page “index”