Data migration to Plone 5.2 and Volto

Rodrigo Ferreira de Souza

October, 2019

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Live codding

6 Details on how we did things

Options to Migrate

- Plone 4.3 → Plone 5+
  - Collective Transmogrifier

Options to Migrate

- Plone 4.3 → Plone 5+
  - Collective Transmogrifier
- Plone 5.1 → Plone 5.2+
  - Migrate a ZODB from Python 2.7 to Python 3

Options to Migrate

- Plone 4.3 → Plone 5+
    - Collective Transmogrifier
- Plone 5.1 → Plone 5.2+
    - Migrate a ZODB from Python 2.7 to Python 3
    - Collective Transmogrifier

Options to Migrate

- Plone 4.3 → Plone 5+
  - Collective Transmogrifier
- Plone 5.1 → Plone 5.2+
  - Migrate a ZODB from Python 2.7 to Python 3
  - Collective Transmogrifier

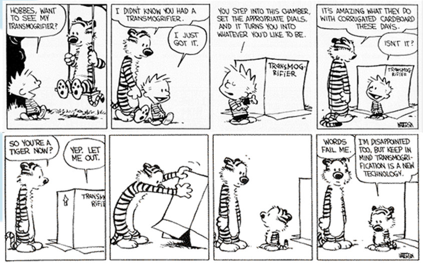

HOBBES, WANT TO SEE MY TRANSMOGRIFIER?
I DIDN'T KNOW YOU HAD A TRANSMOGRIFIER.
I JUST GOT IT.
YOU STEP INTO THIS CHAMBER, SET THE APPROPRIATE DIALS, AND IT TURNS YOU INTO WHATEVER YOU'D LIKE TO BE.
TRANSMOG-RIFIER
IT'S AMAZING WHAT THEY DO WITH CORRUGATED CARDBOARD THESE DAYS.
ISN'T IT?
TRANSMOG-RIFIER
SO YOU'RE A TIGER NOW?
YEP. LET ME OUT.
TRANSM RIFIE
WORDS FAIL ME.
I'M DISAPPOINTED TOO, BUT KEEP IN MIND TRANSMOGRI-FICATION IS A NEW TECHNOLOGY.

Figure: A transmogrifier is fictional device used for transforming one object into another object. The term was coined by Bill Waterson of Calvin and Hobbes fame.

Why we use Transmogrifier?

- Have many generic Pipelines available for common cases

Why we use Transmogrifier?

- Have many generic Pipelines available for common cases
- Flexibility to deal with different use cases

Why we use Transmogrifier?

- Have many generic Pipelines available for common cases
- Flexibility to deal with different use cases
- Briliant way to use Iterator Design Pattern!

Why we use Transmogrifier?

- Have many generic Pipelines available for common cases
- Flexibility to deal with different use cases
- Briliant way to use Iterator Design Pattern!

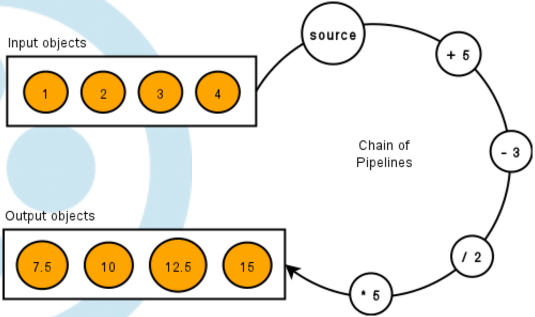


Figure: Transmogrify Diagram

Why we use Transmogrifier?

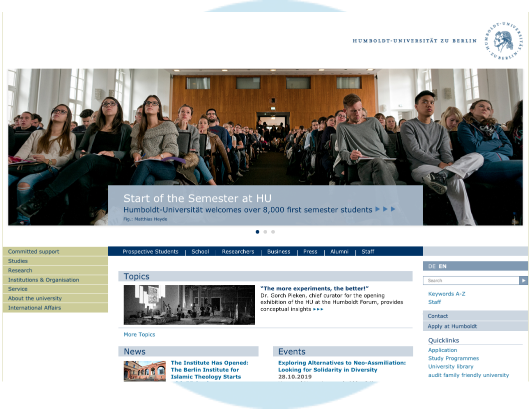
- Have many generic Pipelines available for common cases
- Flexibility to deal with different use cases
- Briliant way to use Iterator Design Pattern!

Figure: Modern Times – Production line

Where we are

1. Knoledgements
2. Use cases
3. The challendge
4. Our way
5. Live codding
6. Details on how we did things

Large University



HUMBOLDT-UNIVERSITÄT ZU BERLIN

Start of the Semester at HU

Humboldt-Universität welcomes over 8,000 first semester students ▸▸▸

Fig.: Matthias Heyde

Topics

"The more experiments, the better!"
Dr. Gorch Pieken, chief curator for the opening exhibition of the HU at the Humboldt Forum, provides conceptual insights ▸▸▸

More Topics

News

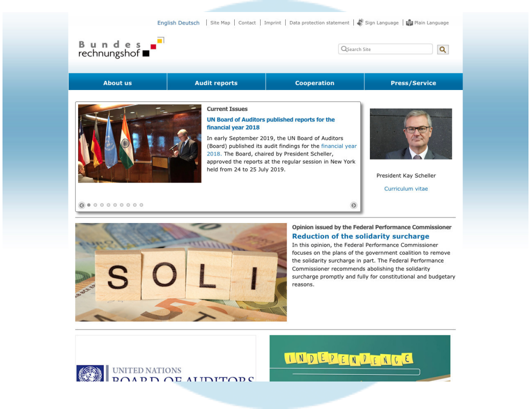
The Institute Has Opened: The Berlin Institute for Islamic Theology Starts

Events

Exploring Alternatives to Neo-Assmiliation: Looking for Solidarity in Diversity
28.10.2019

Figure: Humboldt-Universität zu Berlin

High-profile government client



English Deutsch | Site Map | Contact | Imprint | Data protection statement | Sign Language | Plain Language

Bundes rechnungshof

Search Site

About us | Audit reports | Cooperation | Press/Service

Current Issues

UN Board of Auditors published reports for the financial year 2018

In early September 2019, the UN Board of Auditors (Board) published its audit findings for the financial year 2018. The Board, chaired by President Scheller, approved the reports at the regular session in New York held from 24 to 25 July 2019.

President Kay Scheller

Curriculum vitae

Opinion issued by the Federal Performance Commissioner

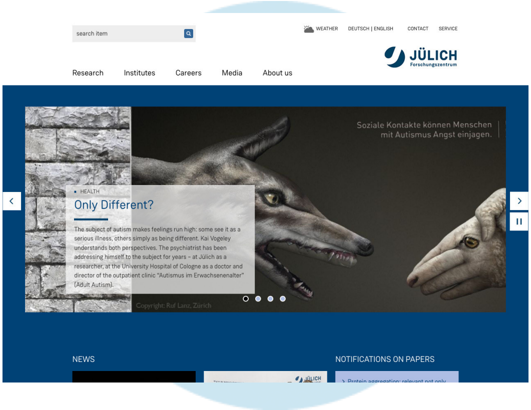
Reduction of the solidarity surcharge

In this opinion, the Federal Performance Commissioner focuses on the plans of the government coalition to remove the solidarity surcharge in part. The Federal Performance Commissioner recommends abolishing the solidarity surcharge promptly and fully for constitutional and budgetary reasons.

UNITED NATIONS
BOARD OF AUDITORS

Figure: Bundes rechnungshof

One of the largest research institutions in Germany



Only Different?

The subject of autism makes feelings run high: some see it as a serious illness, others simply as being different. Kai Vogeley understands both perspectives. The psychiatrist has been addressing himself to the subject for years – at Jülich as a researcher, at the University Hospital of Cologne as a doctor and director of the outpatient clinic "Autismus im Erwachsenenalter" (Adult Autism).

› Protein aggregation: relevant not only

Figure: Forschungszentrum Jülich – Intranet

Where we are

1. Knoledgements
2. Use cases
3. The challendge
4. Our way
5. Live codding
6. Details on how we did things

The challendge

- From:
  - Python 2.x

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity
  - Old Products

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity
  - Old Products
  - Sometimes other systems

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity
  - Old Products
  - Sometimes other systems
- To:
  - Python 3

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity
  - Old Products
  - Sometimes other systems
- To:
  - Python 3
  - Plone 5.2

The challendge

- From:
  - Python 2.x
  - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity
  - Old Products
  - Sometimes other systems
- To:
  - Python 3
  - Plone 5.2
  - Volto

Advantages for the clients

- They spare a migration from Plone 5 to Plone 6

Advantages for the clients

- They spare a migration from Plone 5 to Plone 6
- At least part of it

Advantages for plone solutions providers

- A way to sell clients the Python 3 upgrade

Advantages for plone solutions providers

- A way to sell clients the Python 3 upgrade
- Which is costly but does not gain the client anything in terms of functionality

Where we are

1. Knoledgements
2. Use cases
3. The challendge
4. Our way
5. Live codding
6. Details on how we did things

Packages

- Kitconcept Content Creator

Packages

- Kitconcept Content Creator
- Kitconcept Migrator (lives in Migration Package)

Packages

- Kitconcept Content Creator
- Kitconcept Migrator (lives in Migration Package)
- Migration Plone 5

Commander Utility

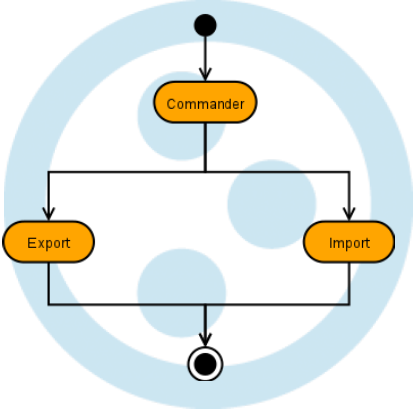


Figure: Commander Utility

Jenkins

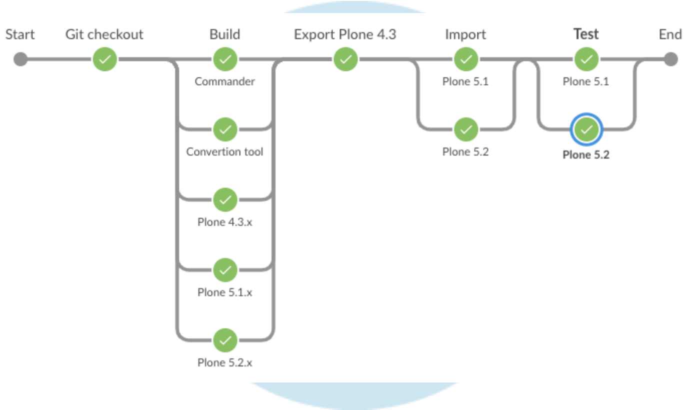
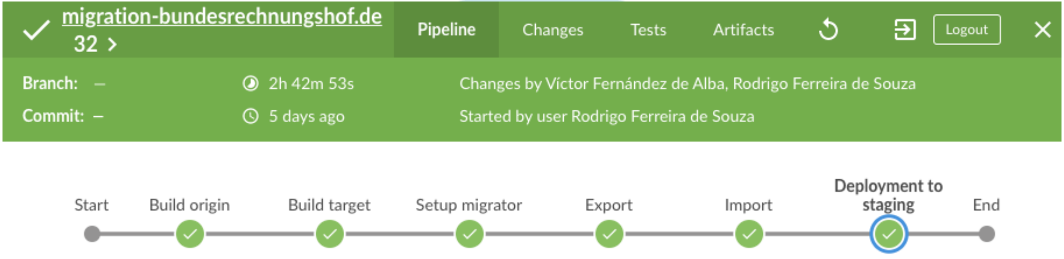


Figure: Jenkins

Migration Server



migration-bundesrechnungshof.de 32 >

Branch: –

Commit: –

2h 42m 53s

5 days ago

Changes by Víctor Fernández de Alba, Rodrigo Ferreira de Souza

Started by user Rodrigo Ferreira de Souza

Figure: Migration Server

Where we are

1 Knoledgements

2 Use cases

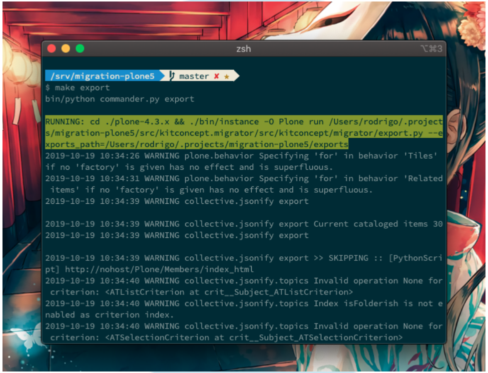
3 The challendge

4 Our way

5 Live codding

6 Details on how we did things

Our general approach



```
/srv/migration-plone5  master ✘ ★
$ make export
bin/python commander.py export

RUNNING: cd ./plone-4.3.x && ./bin/instance -O Plone run /Users/rodrigo/.project
s/migration-plone5/src/kitconcept.migrator/src/kitconcept/migrator/export.py --e
xports_path=/Users/rodrigo/.projects/migration-plone5/exports
2019-10-19 10:34:26 WARNING plone.behavior Specifying 'for' in behavior 'Tiles'
if no 'factory' is given has no effect and is superfluous.
2019-10-19 10:34:31 WARNING plone.behavior Specifying 'for' in behavior 'Related
 items' if no 'factory' is given has no effect and is superfluous.
2019-10-19 10:34:39 WARNING collective.jsonify export

2019-10-19 10:34:39 WARNING collective.jsonify export Current cataloged items 30
2019-10-19 10:34:39 WARNING collective.jsonify export

2019-10-19 10:34:39 WARNING collective.jsonify export >> SKIPPING :: [PythonScri
pt] http://nohost/Plone/Members/index_html
2019-10-19 10:34:40 WARNING collective.jsonify.topics Invalid operation None for
 criterion: <ATListCriterion at crit__Subject_ATListCriterion>
2019-10-19 10:34:40 WARNING collective.jsonify.topics Index isFolderish is not e
nabled as criterion index.
2019-10-19 10:34:40 WARNING collective.jsonify.topics Invalid operation None for
 criterion: <ATSelectionCriterion at crit__Subject_ATSelectionCriterion>
```

Figure: Running migrator by hand

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Live codding

6 Details on how we did things

General Backend

- ATTopics → Collection

General Backend

- ATTopics → Collection
- RichText → Volto Tiles

General Backend

- ATTopics → Collection
- RichText → Volto Tiles
- Portlets

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages
  - Convert RichText HTML to Volto DraftJS (node utility)

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages
  - Convert RichText HTML to Volto DraftJS (node utility)
  - Easily point to old website when content not imported

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages
  - Convert RichText HTML to Volto DraftJS (node utility)
  - Easily point to old website when content not imported
  - Fix URLs (planned resolveuid)

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages
  - Convert RichText HTML to Volto DraftJS (node utility)
  - Easily point to old website when content not imported
  - Fix URLs (planned resolveuid)
  - Simple Folders → Document with Collection Block (planned)

The Volto part

- What we Polish to enter in Volto land:
  - Use Collective Folderish Types
  - Deal with default pages
  - Convert RichText HTML to Volto DraftJS (node utility)
  - Easily point to old website when content not imported
  - Fix URLs (planned resolveuid)
  - Simple Folders → Document with Collection Block (planned)
  - Simple Collection → Document with Collection Block (planned)

Questions?

THANK
YOU
GRACIAS
ARIGATO
SHUKURIA
DANKSCHEEN
BİYAN
SHUKRIA
TINGKI
YAQHANYELAY
TASHAKKUR ATU
SUKSAMA
EKHMET
GRAZIE
MEHRBANI
MAAKE
KOMAPSUMNIDA
PALDIES
GOZAIMASHITA
EFCHARISTO
JUSPAXAR
BOLZÏN
MERCI
SPASSIBO
SHACHALHUYA
NUHUN
CHALTU
YUSPAGARATAM
WABEEJA
MAITEKA
HUI
DHANYABAAD
ANNHA
ATTO
MERSI
SPASIBO
DENKAUJA
NENACHALHYA
UNALCHEESH
GUI
HATUR
EKOJU
SIKOMO
MAKETAI
MINMONCHAR
SAIKO
MERASTAWHY
GAEJTHO
LAH
TAVTAPUCH
MEDAWAGSE
AGUYJE
FAKAAUE
BAIKA