Data migration to Plone 5.2 and Volto

Rodrigo Ferreira de Souza

October, 2019

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Details on how we did things

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

Options to Migrate

- Plone 4.3 → Plone 5+
  - Collective Transmogrifier

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Options to Migrate
Why we use 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

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Options to Migrate
Why we use 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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

Options to Migrate

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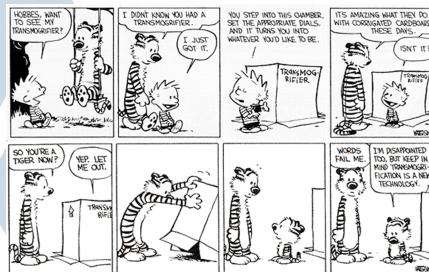 - Migrate a ZODB from Python 2.7 to Python 3
  - Collective Transmogrifier

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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

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
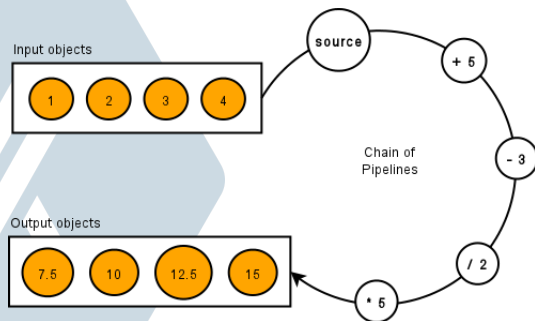- Briliant way to use Iterator Design Pattern!

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

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

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Options to Migrate
Why we use Transmogrifier?

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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Large University
High-profile government client
One of the largest research institutions in Germanpngpngy

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Details on how we did things

Large University
High-profile government client
One of the largest research institutions in Germanpngpngy

Large University

Figure: Large University client website

Large University
High-profile government client
One of the largest research institutions in Germanpngpngy

High-profile government client

Figure: High-profile government client website

Large University
High-profile government client
One of the largest research institutions in Germanpngpngy

One of the largest research institutions in Germany
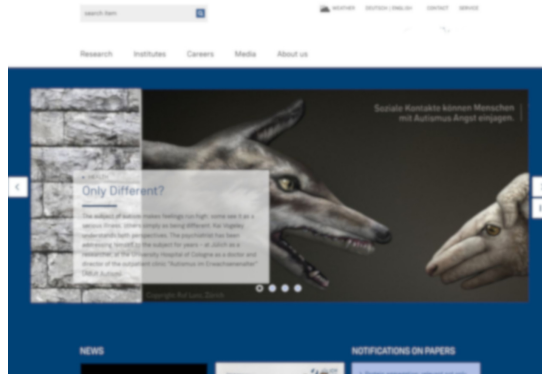
Figure: Large research institution client website

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

The challendge
Advantages for the clients
Advantages for plone solutions providers

Where we are

1 Knoledgements

2 Use cases

3 The challendge

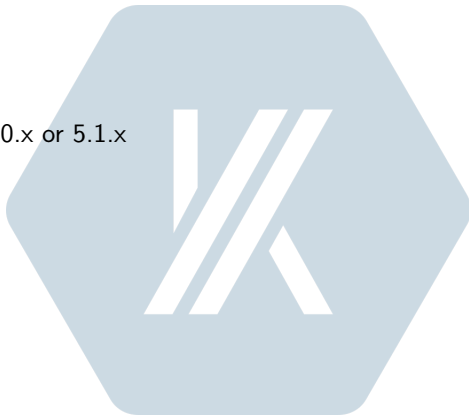4 Our way

5 Details on how we did things

The challendge

- From:
  - Python 2.x

The challendge

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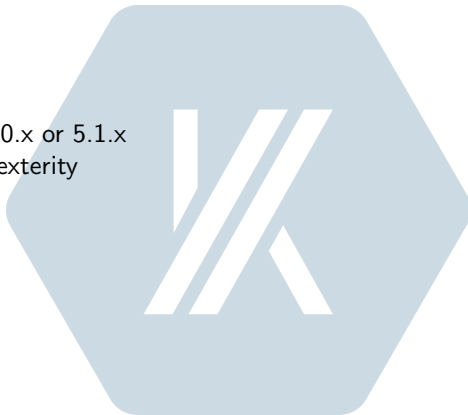 - Plone 4.3.x or 5.0.x or 5.1.x

The challendge

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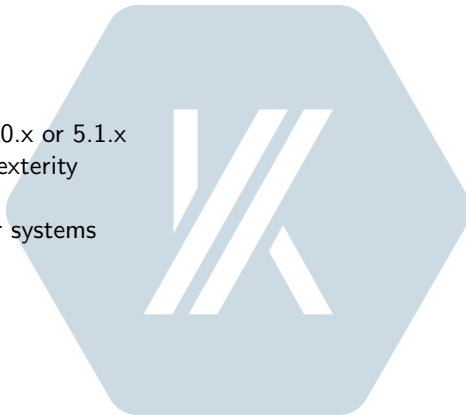 - Plone 4.3.x or 5.0.x or 5.1.x
  - Archetypes or Dexterity

The challendge

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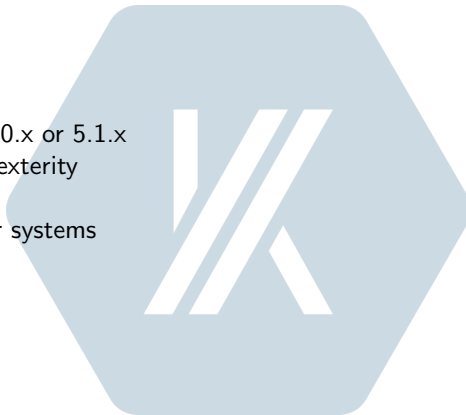 - Archetypes or Dexterity
  - Old Products

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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

The challendge
Advantages for the clients
Advantages for plone solutions providers

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
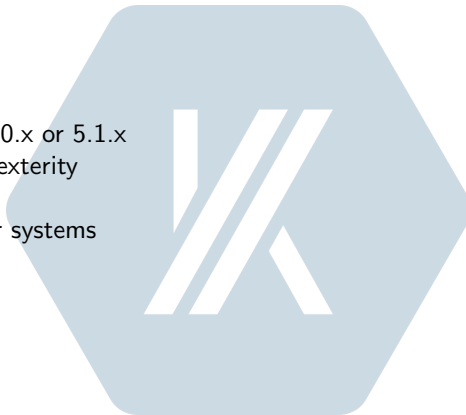   - Sometimes other systems
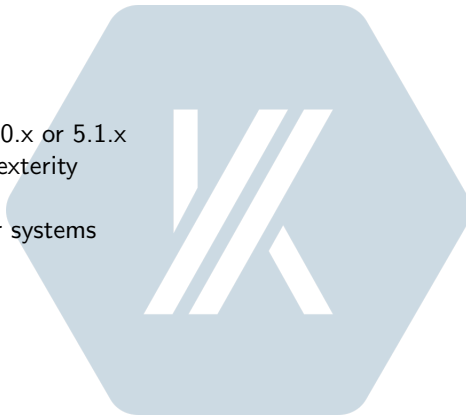- To:
    - Python 3
    - Plone 5.2
    - Volto

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

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

Packages
Commander Utility
Jenkins
Migration Server

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Details on how we did things

Packages

- kitconcept Content Creator

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Packages
Commander Utility
Jenkins
Migration Server

Packages

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

Packages

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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Packages
Commander Utility
Jenkins
Migration Server
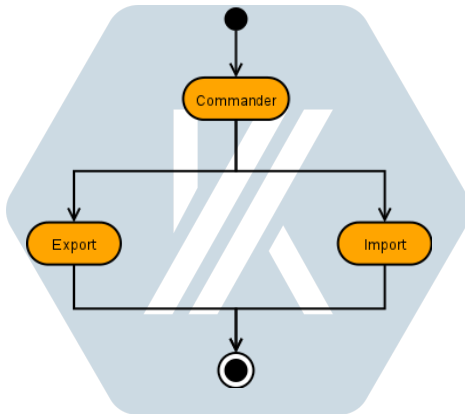
Commander Utility

Figure: Commander Utility

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Packages
Commander Utility
Jenkins
Migration Server

Jenkins

Figure: Jenkins

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

Packages
Commander Utility
Jenkins
Migration Server
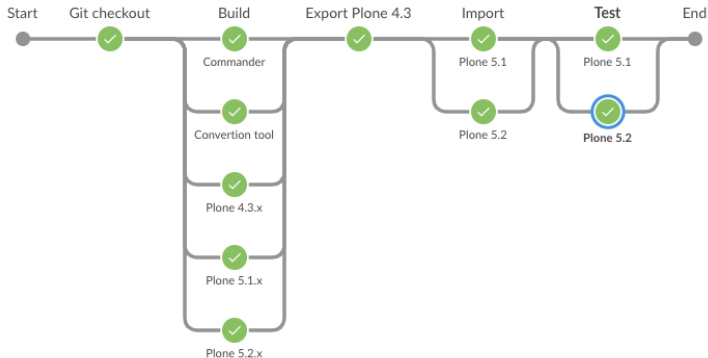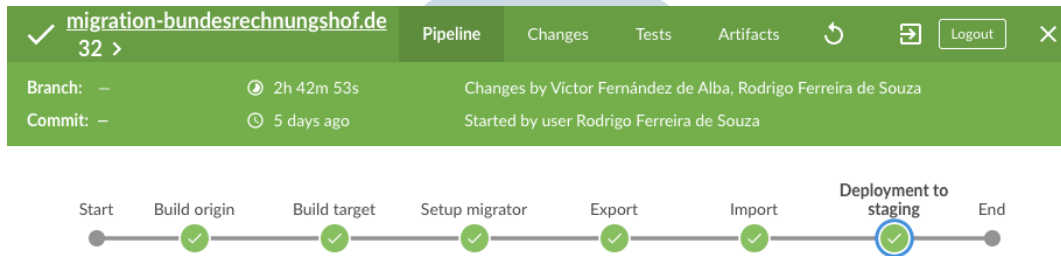
Migration Server

Figure: Migration Server

Knoledgements
Use cases
The challenge
Our way
Details on how we did things

General Backend
The Volto part

Where we are

1 Knoledgements

2 Use cases

3 The challendge

4 Our way

5 Details on how we did things

General Backend

- ATTopics → Collection

General Backend

- ATTopics → Collection
- RichText → Volto Blocks

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part

General Backend

- ATTopics → Collection
- RichText → Volto Blocks
- Portlets
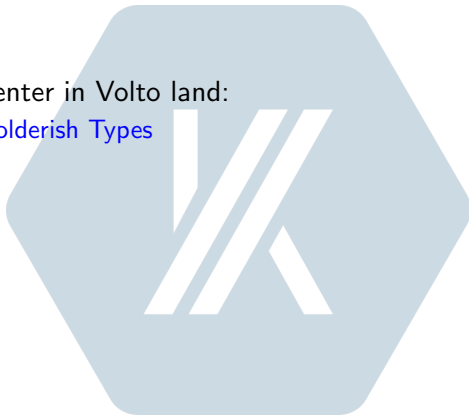
Knoledgements
Use cases
The challenge
Our way
Details on how we did things

General Backend
The Volto part

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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part
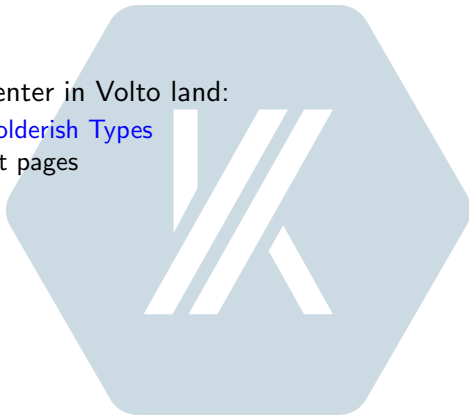
The Volto part

- 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

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part

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)

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part

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 $\rightarrow$ Document with Collection Block (planned)

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part

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?

Knoledgements
Use cases
The challendge
Our way
Details on how we did things

General Backend
The Volto part