Daisy Producer: an integrated production management system for accessible media

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Introduction
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Daisy Producer
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Demo
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Conclusion
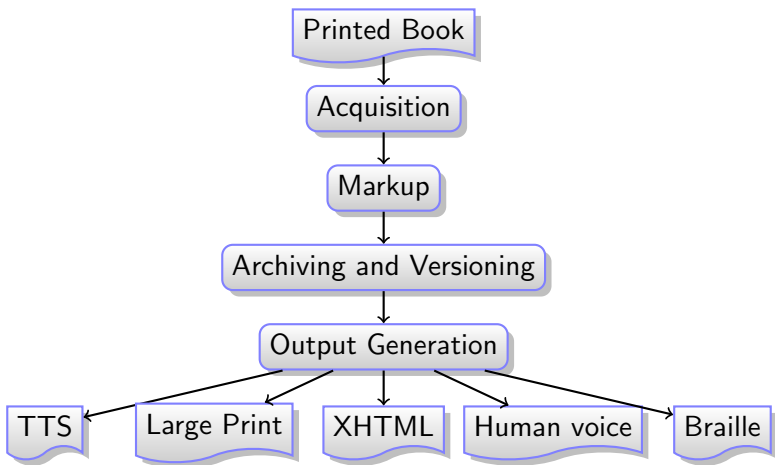0000

Questions
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Outline

Background

- Swiss Library for the Blind and Visually Impaired produces accessible media
  - DTBs, Braille, Large Print
  - XHTML, RTF
- Large amounts of produced media
- We want to increase output production
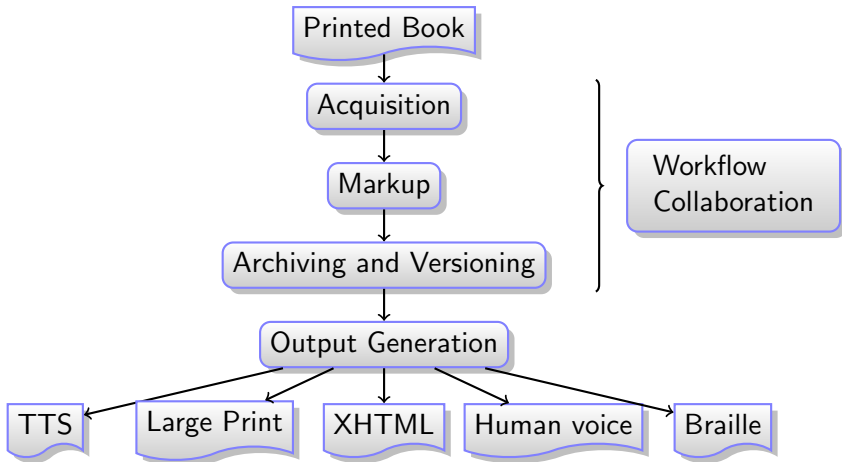 - produce more books
  - in less time

Why are we here?

- Not that easy to increase output production
- Production lines are separate
  - Does not scale
  - No benefit from synergies
- Lack of collaboration/workflow support
  - Work on the same book is often done by different people
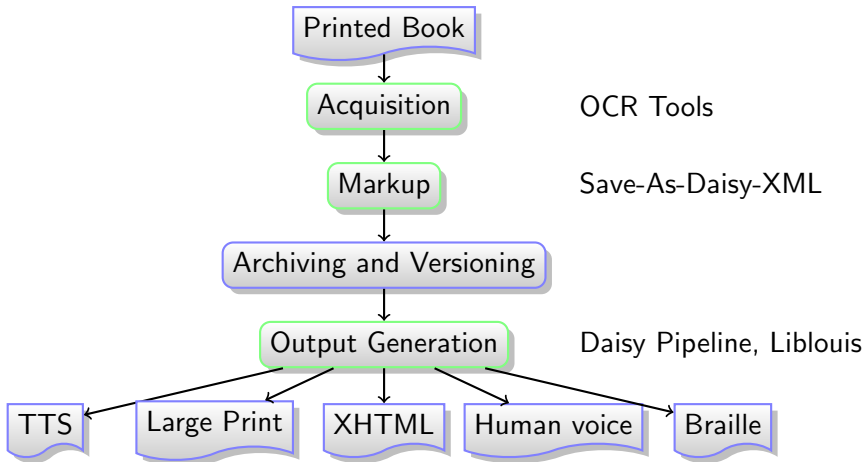 - Sometimes even in different locations

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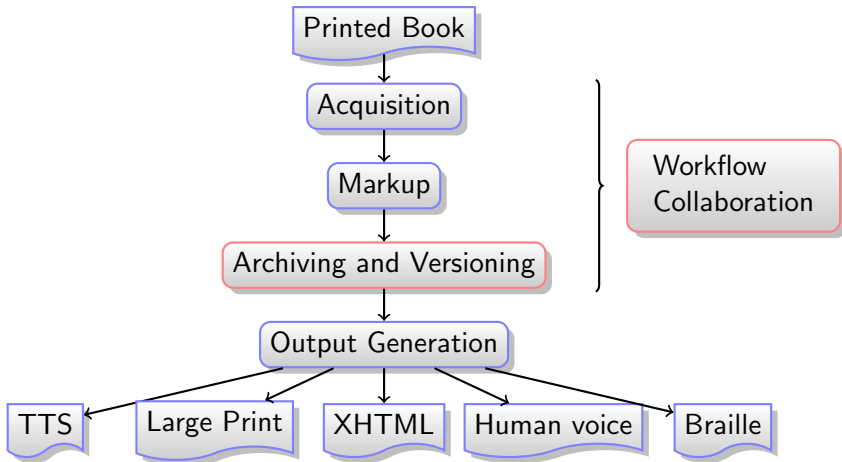Daisy Producer
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Production of accessible media

Production of accessible media

Production tools

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              ┌──────────────┐
              │ Printed Book │
              └──────┬───────┘
                     │
                     ▼
              ┌──────────────┐
              │ Acquisition  │        OCR Tools
              └──────┬───────┘
                     │
                     ▼
              ┌──────────────┐
              │   Markup     │        Save-As-Daisy-XML
              └──────┬───────┘
                     │
                     ▼
        ┌───────────────────────────┐
        │ Archiving and Versioning  │
        └─────────────┬─────────────┘
                      │
                      ▼
        ┌───────────────────────────┐
        │    Output Generation      │   Daisy Pipeline, Liblouis
        └───────────────────────────┘
```

| TTS | Large Print | XHTML | Human voice | Braille |

Production tools

Production tools summary

| Process	Possible Tools
Acquisition	e.g. OCR tools
Markup	e.g. Save-As-Daisy-XML
Output Generation	Daisy Pipeline, Liblouis
Archiving and Versioning	?
Workflow and Collaboration	?

Daisy Producer enters the stage

- Integrated workflow management
- Collaboration support
- Archiving and versioning
- Unified production for all output formats
    - centered around DTBook XML
- Automated output generation
- Web-based

Daisy Producer enters the stage

An integrated production management system
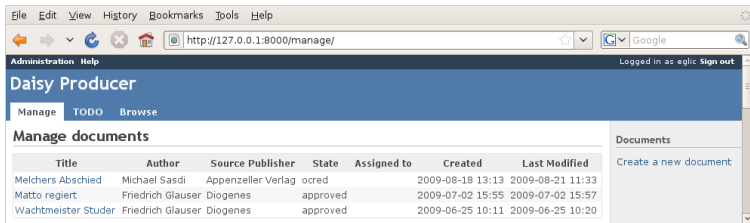
Architecture
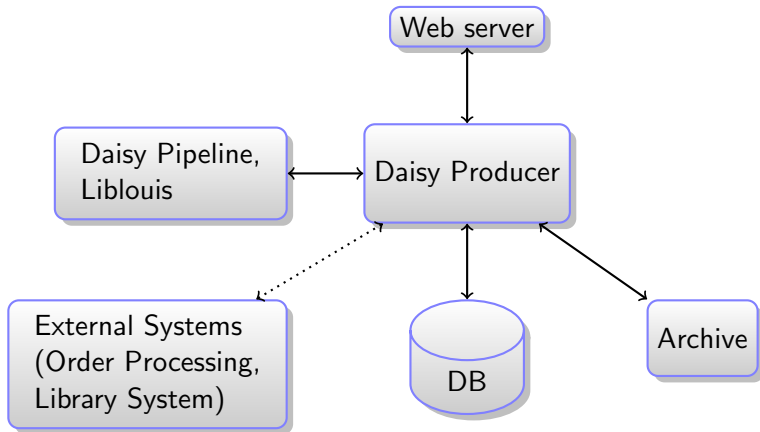
Use Cases

- Management
    - Initiate a production
    - Assign tasks to users

- Production
    - Work on a production
        - e.g. scan, markup, upload document, proof read, approve, etc.

- Consumption
    - Download a customized version of a finished production

- Administration
    - Manage users, groups
    - Define workflow

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Management

Figure: Management overview of all documents in production

Production – Overview

Figure: Overview of all pending documents

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Production – Detailed view

Figure: Detailed view of a pending document

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Consumption – Overview

Figure: Overview of all finished documents

Consumption – Detailed view

File   Edit   View   History   Bookmarks   Tools   Help

http://127.0.0.1:8000/1/

Google

Administration   Help   Logged in as eglic Sign out

Daisy Producer

Manage   TODO   **Browse**

Document Details

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View as Braille

Cells per Line:	40
Lines per Page:	28
Contraction:	Grade 0
Hyphenation:	☑
Show original page numbers:	☑
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Implementation

- Python using Django Web Framework
- Usual multi-tiered design
- Runs on any platform
    - Linux, Windows, Mac
- Works with any relational database
    - MySQL, PostgreSQL, Oracle

Features

- Workflow
  - freely definable (Finite State Machine)
- Collaboration
  - shared and versioned workspace
- Management
  - Overview of production
  - Assign tasks to users or groups
- Self-service output generation
  - using Daisy Pipeline and Liblouis

Demo

Demo Time

How does this help me?

Daisy Producer helps with your production of accessible media

- Manage the production
    - Overview
    - Workflow
- Helps with collaboration
    - Provides a versioned shared storage for documents
- Integrates with Daisy Pipeline and Liblouis
    - Generation of output media
- Ultimately allows your production to scale

Where can I get it?

- Freely available from http://www.daisyproducer.org
  - or from github.com
- Released under an Open Source license
- Feedback is highly appreciated

A work-in-progress

- *Daisy Producer* is not finished
  - Influence is possible and welcome
  - see Roadmap
- Users, Testers and of course Developers are welcome

Roadmap

- Q1 2010
  - Launch in production for fiction books

- Future
  - Support for all of DTBook XML
  - Support for more output formats
  - Integration with library and order processing system

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Questions?