

# XZES40-Transformer

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# Program Purpose and Goals



Figure: Source: Wikimedia Commons [2]



Figure: Source: Apache Software Foundation [1]

# Project Purpose

The purpose of the XZES40-Transformer is:

- ▶ Transform XML and XSLT documents into a new XML document.
- ▶ The XZES40-transformer can transform multiple documents in parallel.
- ▶ Processed style sheets are cached for quick recompilation.
- ▶ Accessible over the Internet via a website.
- ▶ Runs on multiple platforms.

# Project Status

The project status of the XZES40-Transformer is:

- ▶ Working web interface.
- ▶ Working web API.
- ▶ Transformer the document over the Internet.

# Remaining Tasks

- ▶ Lu : Benchmarking, Linux package, Documentation.
- ▶ Elijah: Command-Line, FreeBSD package, Error handle, Testing.
- ▶ Shuai : Parallel document transformation , Windows package, Improve Cache.
- ▶ Everyone: Poster, demo.

# Problems Encountered

We have following problem so far:

- ▶ We didn't design the cache and parallel computation carefully.
- ▶ Benchmark documents need to be fixed.
- ▶ Doxygen does not run perfectly.
- ▶ CGI script is tedious to create.

# Retrospective Weeks 1 - 5

- ▶ Week 1: Recap progress over the winter break.
- ▶ Week 2: Really early development and planing time.
- ▶ Week 3: Prototype basic transformation.
- ▶ Week 4: Debug the bug.
- ▶ Week 5: Finally get over the bug.

# Retrospective Weeks 6 - 10

- ▶ Week 6: Finish the Daemon.
- ▶ Week 7: Finish the Cache.
- ▶ Week 8: Plan for the parallel and CGI script.
- ▶ Week 9: Finish the CGI script and prototype parallel computation.
- ▶ Week 10: Finish the demo.



# Demo

Demo time!

# Reference



*ASF Press Kit: Apache Software Foundation Logo.* URL:  
<https://www.apache.org/foundation/press/kit/>.



*Wikimedia Commons: Oregon State University Logo.* URL:  
[https://commons.wikimedia.org/wiki/File:Oregon\\_State\\_U](https://commons.wikimedia.org/wiki/File:Oregon_State_U)