

XZES40-Transformer

Zixun Lu (luzi), Shuai Peng (pengs), Elijah Voigt (voigte)

CS 462 — CS Senior Capstone — Group #40

Winter 2017

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:

- ▶ We finish the basic transformer function for the XZES40-Transformer.
- ▶ We are slow than the schedule that we made.
- ▶ We want have team meet weekly to complete project.

Remaining Tasks

- ▶ lu : benchmarking, parallel document transformation, Linux package.
- ▶ Elijah: Daemon, CGI script, Command-Line, FreeBSD package.
- ▶ Shuai : Cache function, Web interface, Windows package.

Problems Encountered

We have following problem so far:

- ▶ Program has aforementioned unqualified-id compilation error.
- ▶ Team are slow than schedule.

Interesting Code

```
int xzes::transform_documents(  
    xzes::cli_arguments_t *args  
) {  
    // ...  
    Document xml(args->xml);  
    Document xsl(args->xsl);  
  
    int theResult = theXalanTransformer  
        .transform( *xml.get_content().obj ,  
                   *xsl.get_content().obj ,  
                   std::cout );  
  
    // ...  
}
```

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_University_Logo