

# **The XIMS Project, 2004-05-21**

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**Slides are available at <http://xims.info/>**

# The XIMS Project Overview

# What is XIMS?

- XIMS Mission Statement:

"The XIMS Project aims to develop a web-based eXtensible Information Management System, built to especially suit the needs of academic and educational infrastructures."

- XIMS has been developed at the University of Innsbruck and released as Open Source (Perl Artistic License)
- Who is using XIMS?
  - ◆ Universities of Innsbruck (~70 homepages, ~950 users)
  - ◆ Management Center Innsbruck
  - ◆ newSof Group
  - ◆ Medienzentrum, University of Siegen
  - ◆ ...

# Major Features

- Customizable ACL-/Role system
- Extensibility with individual application modules
- Easy WYSIWYG-Editor integration
- Separation of application and presentation logic (XML/XSLT)
- Designed to flexibly integrate into existing infrastructures
- ...

# Technical Implementation Overview

# What do you need to get it working?

- Webserver with Apache AxKit support
- Oracle or PostgreSQL RDBMS

# Scratching the surface...

# Core Module Dependencies

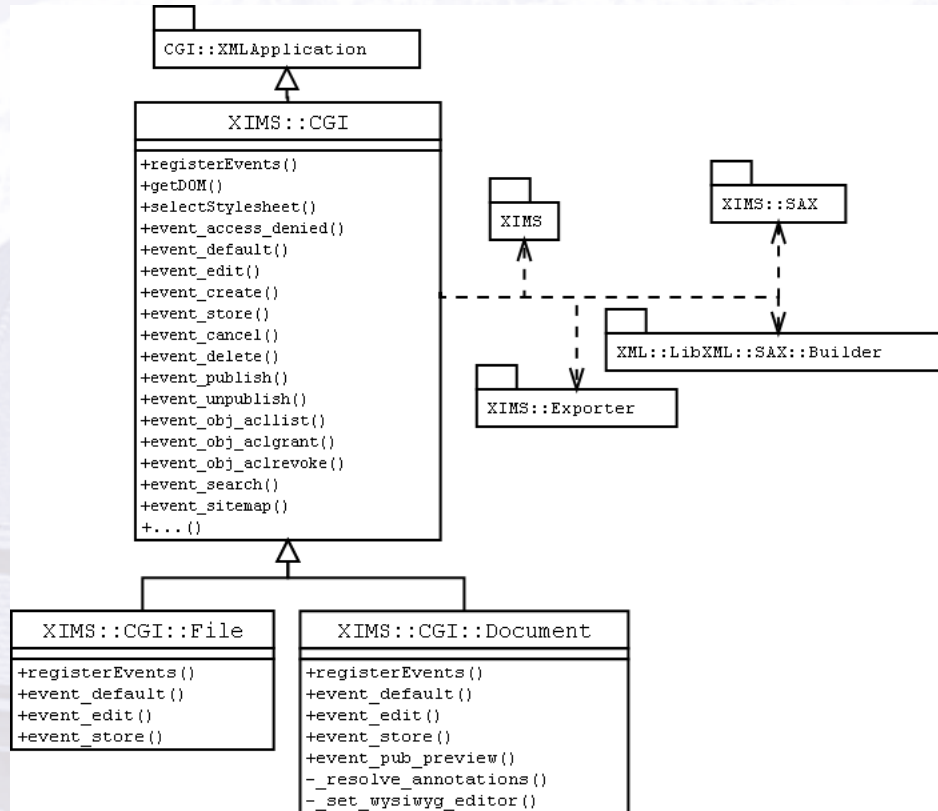
- CGI::XMLApplication
- XML::LibXML, XML::LibXSLT
- DBIx::SQLEngine
- XML::SAX::Generator::PerlData
- AxKit



# **Application Classes Showcase**

## **Putting OO in your CGI Application Logic**

# Class Diagramm Overview



# App-Class Code Snippet (1)

```
# This is XIMS::CGI::File::event_default()
sub event_default {
    XIMS::Debug( 5, "called" );
    my ( $self, $ctxt ) = @_;

    return 0 if $self->SUPER::event_default( $ctxt );

    print $self->header( -type => $ctxt->object->data_format->mime_type()
    print $ctxt->object->body();
    $self->skipSerialization(1);

    return 0;
}
```

# App-Class Code Snippet (2)

```
# This is XIMS::CGI::Document::edit()
sub event_edit {
    XIMS::Debug( 5, "called" );
    my ( $self, $ctxt ) = @_;

    $ctxt->properties->content->escapebody( 1 );

    # event edit in SUPER does things like checking for
    # edit privileges and setting a lock
    return 0 if $self->SUPER::event_edit( $ctxt );

    # check if a WYSIWYG Editor is to be used based on cookie or config
    my $ed = $self->_set_wysiwyg_editor( $ctxt );

    # $ed will be '' if no WYSIWYG Editor is to be used
    $ctxt->properties->application->style( "edit" . $ed );

    return 0;
}
```

# Further Ressources



<http://xims.info/>