

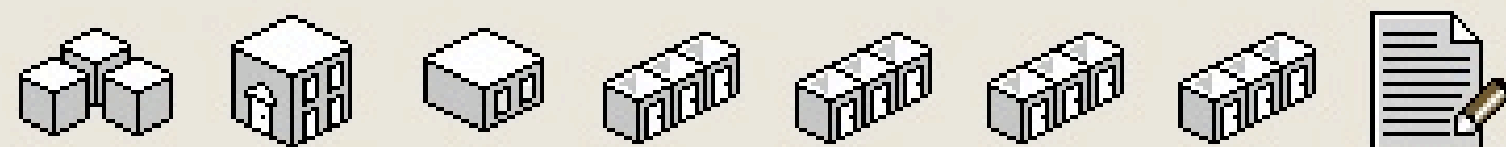
IMS Tool Interoperability

Dr. Charles Severance

Anthony Whyte

<http://www.dr-chuck.com/>

Functionality Mashup in a Learning Context



2. In epistolas canonicas

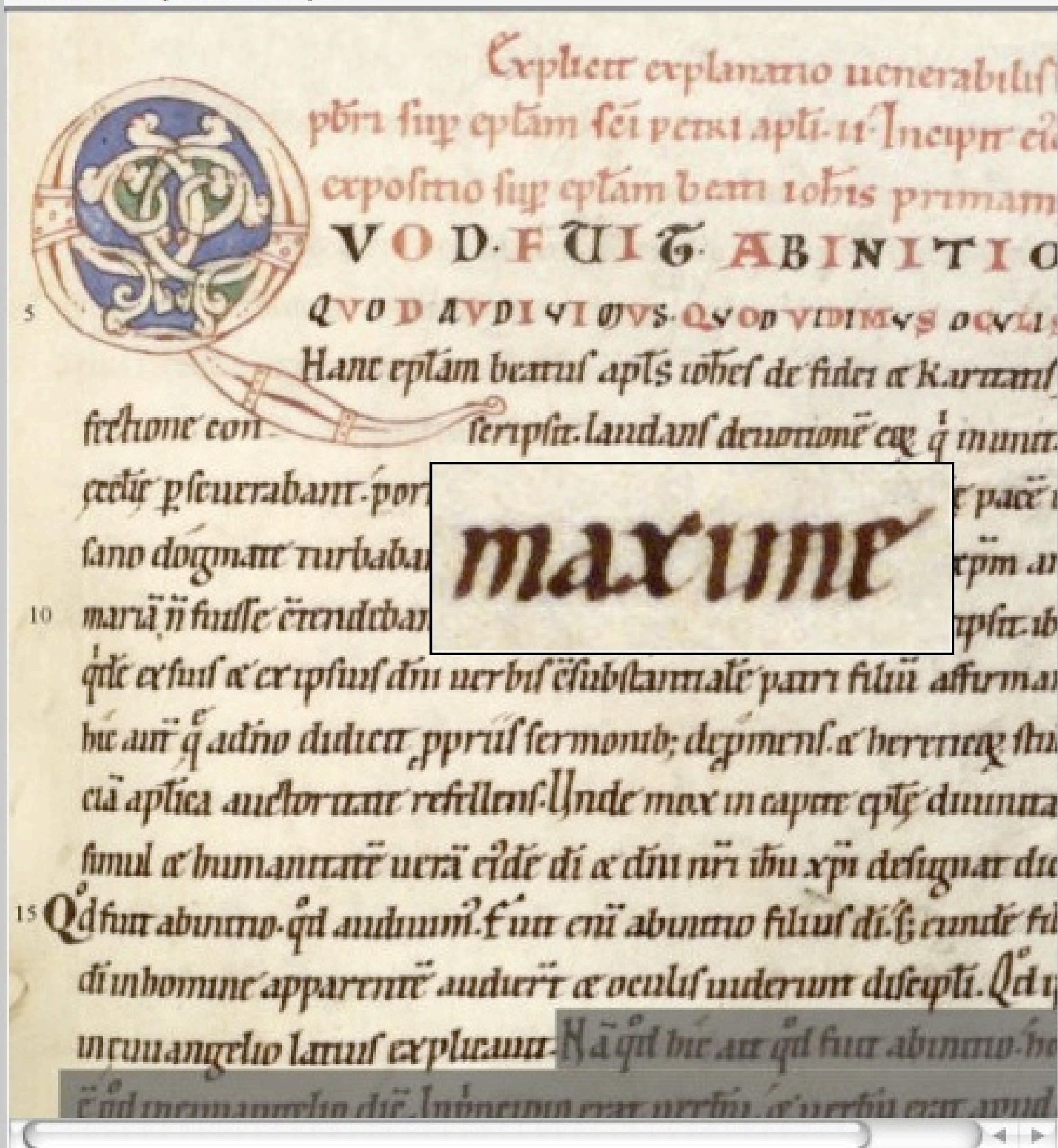
Search

[Options](#) [Advanced Search](#)

Thursday, 29 Mar 2007 You are logged in as: Anonymous Internet User

[Print Resource](#) [Logout](#)

[Store](#) [Layout](#) [Help](#)



[Check Transcription](#)

<http://www.dr-chuck.com/media.php?id=80>



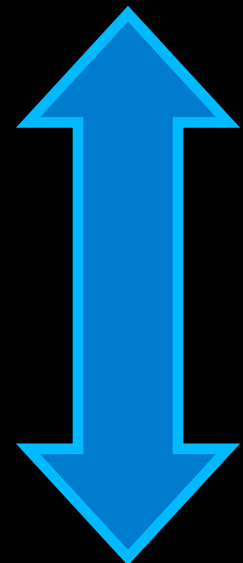
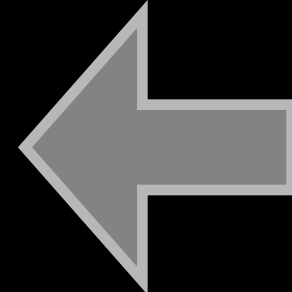
Thursday, 29 Mar 2007 You are logged in as: Anonymous Internet User

2. In epistolas canonicas

Search Options Advanced Search Print Resource Logout

Bodington LMS

Enterprise Data

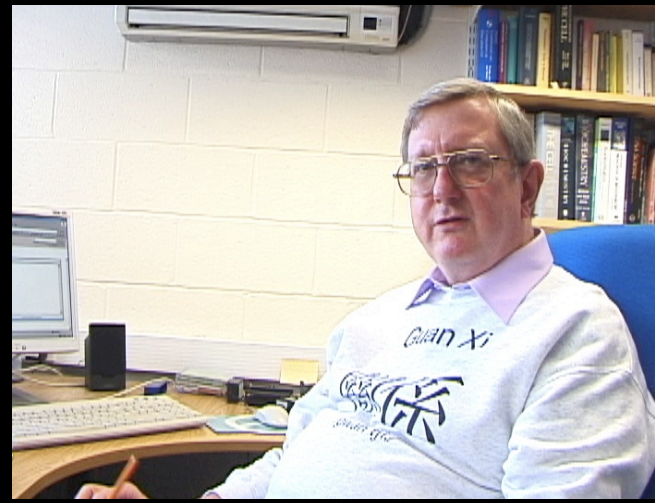


Identity
Roles
Storage

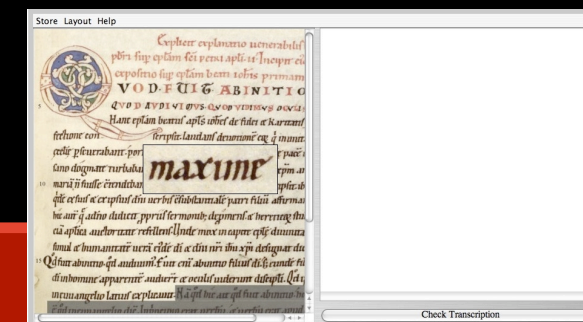
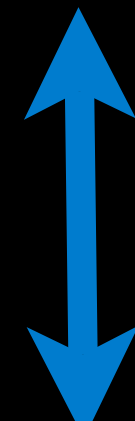
GuanXi
SAML
Waffle Bus

Store Layout Help

Check Transcription



Functionality Mashup Future – Learning

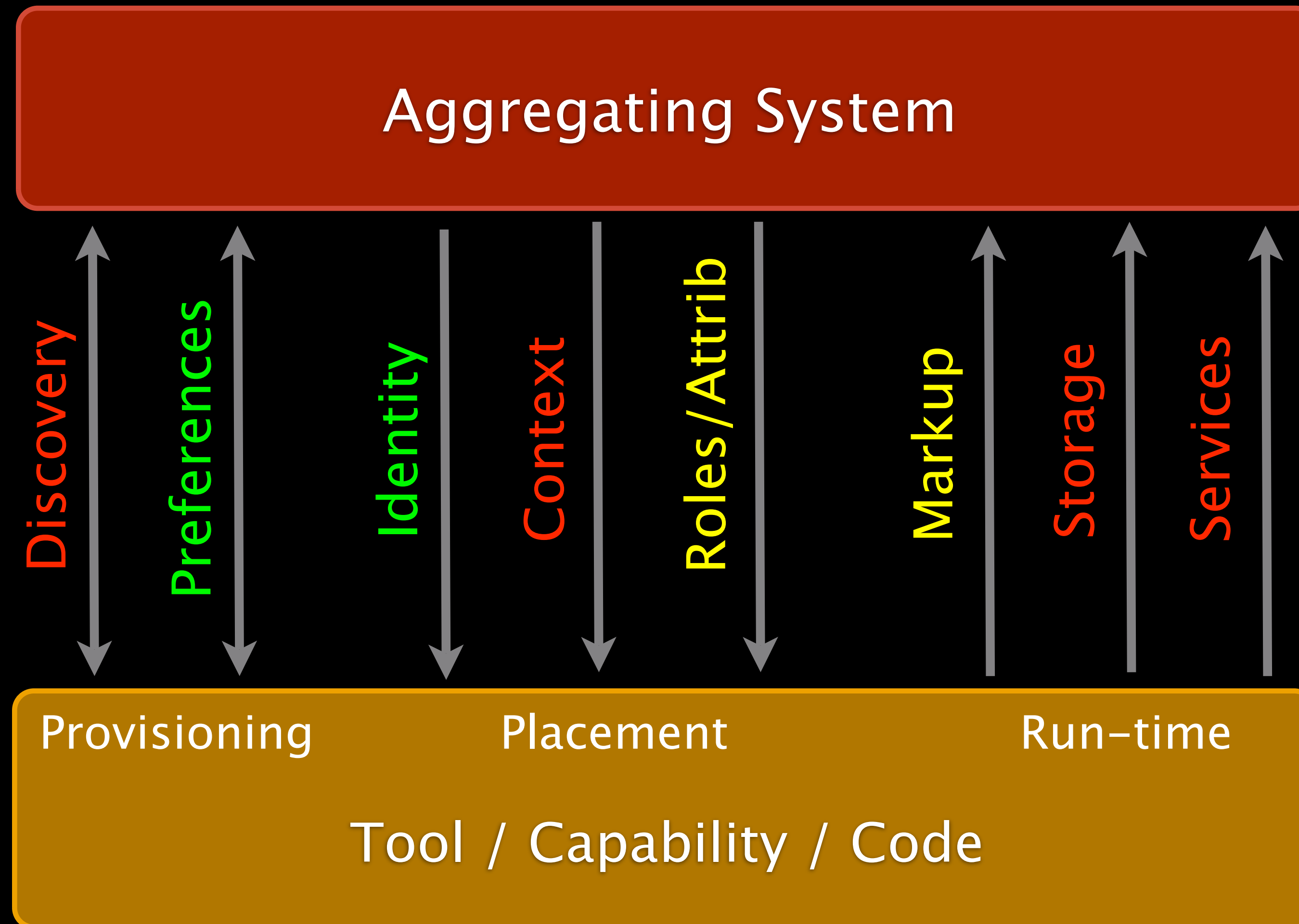


Flickr, Google, YouTube,
Merlot, delio.us

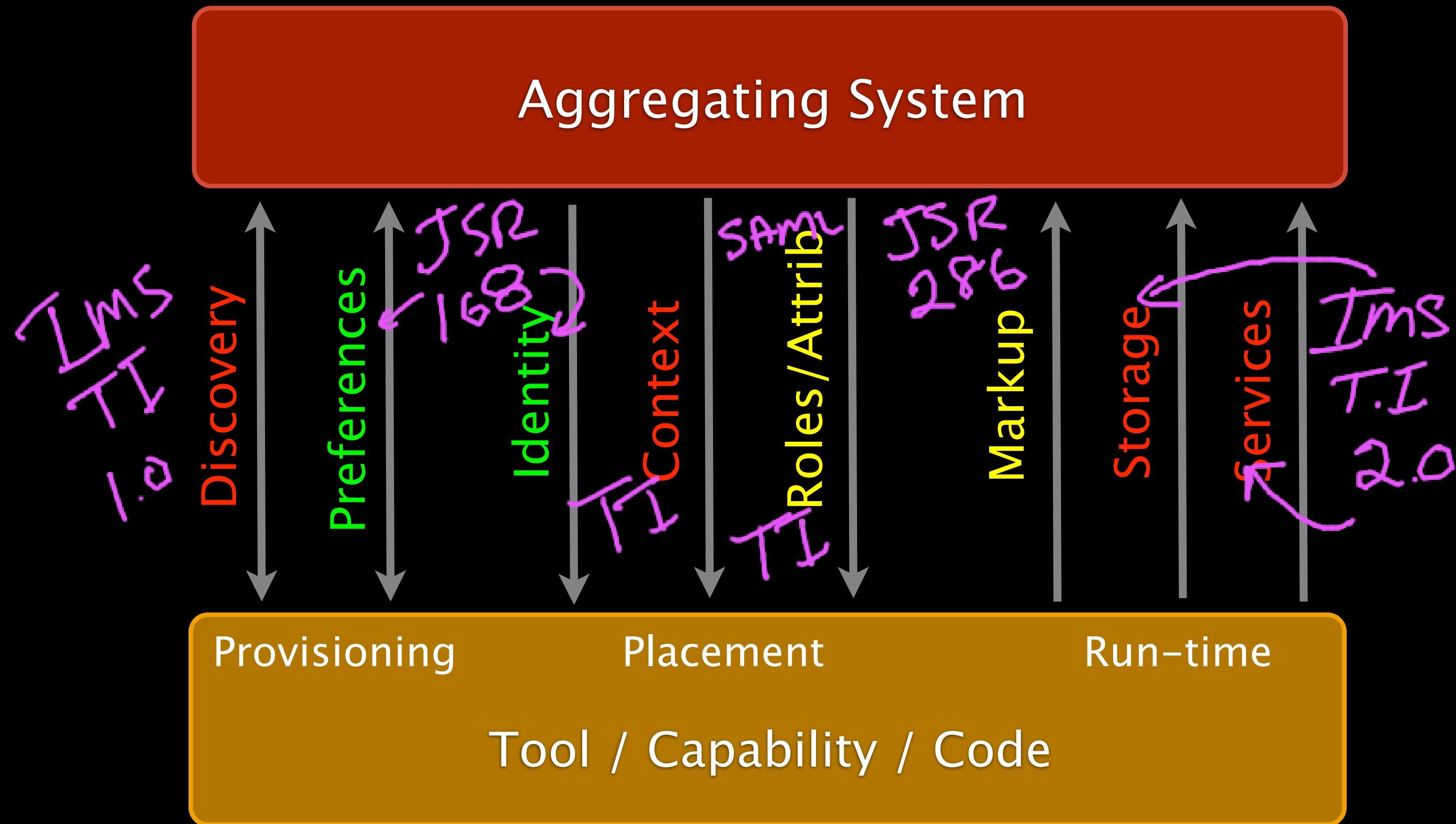
Approaching Functionality Mashup Standards and Technologies

Standards are critical to making functionality mashup something we can commonly use to assemble applications.

Functionality Mashup Technical Needs



Functionality Mashup Technical Needs

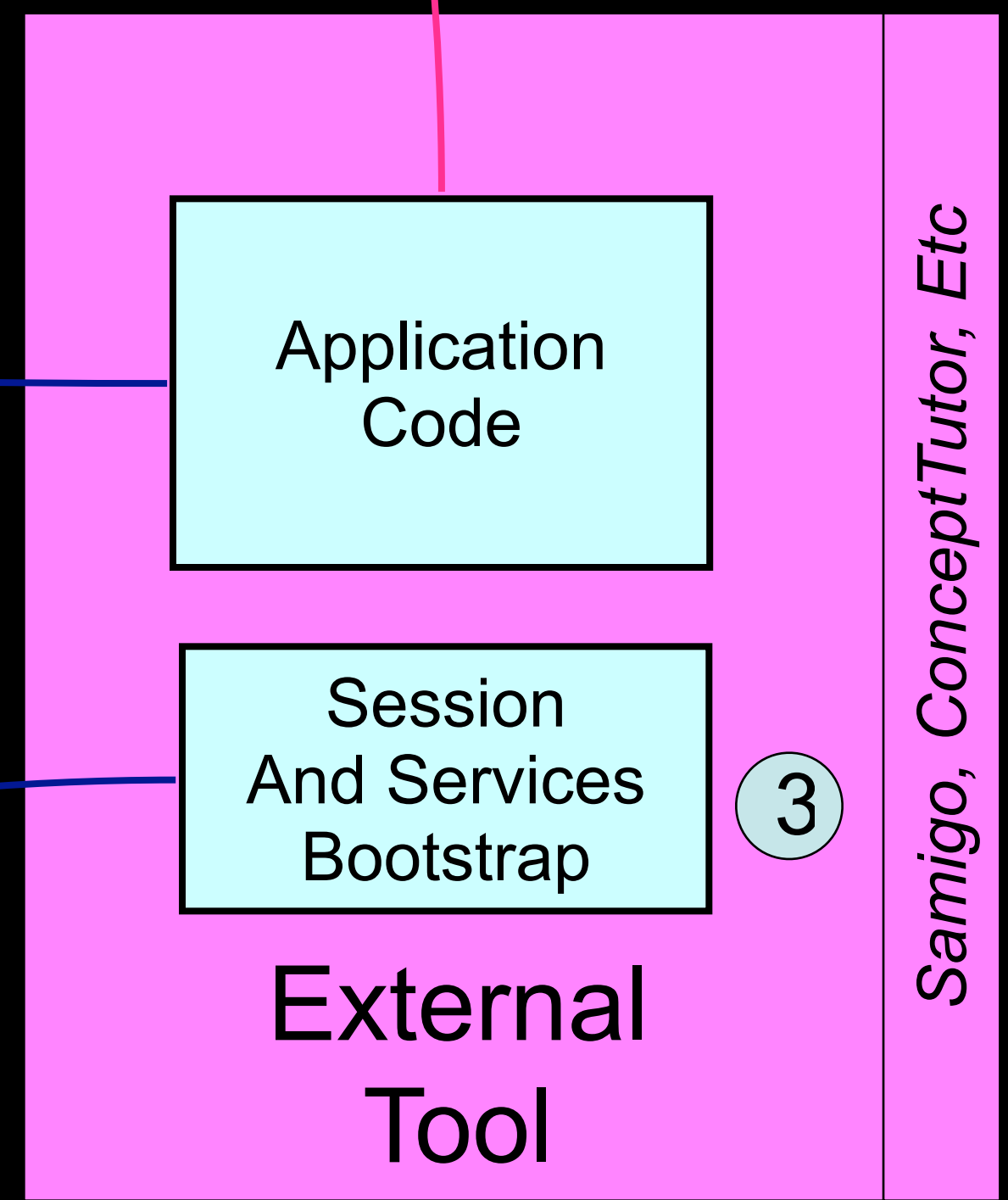
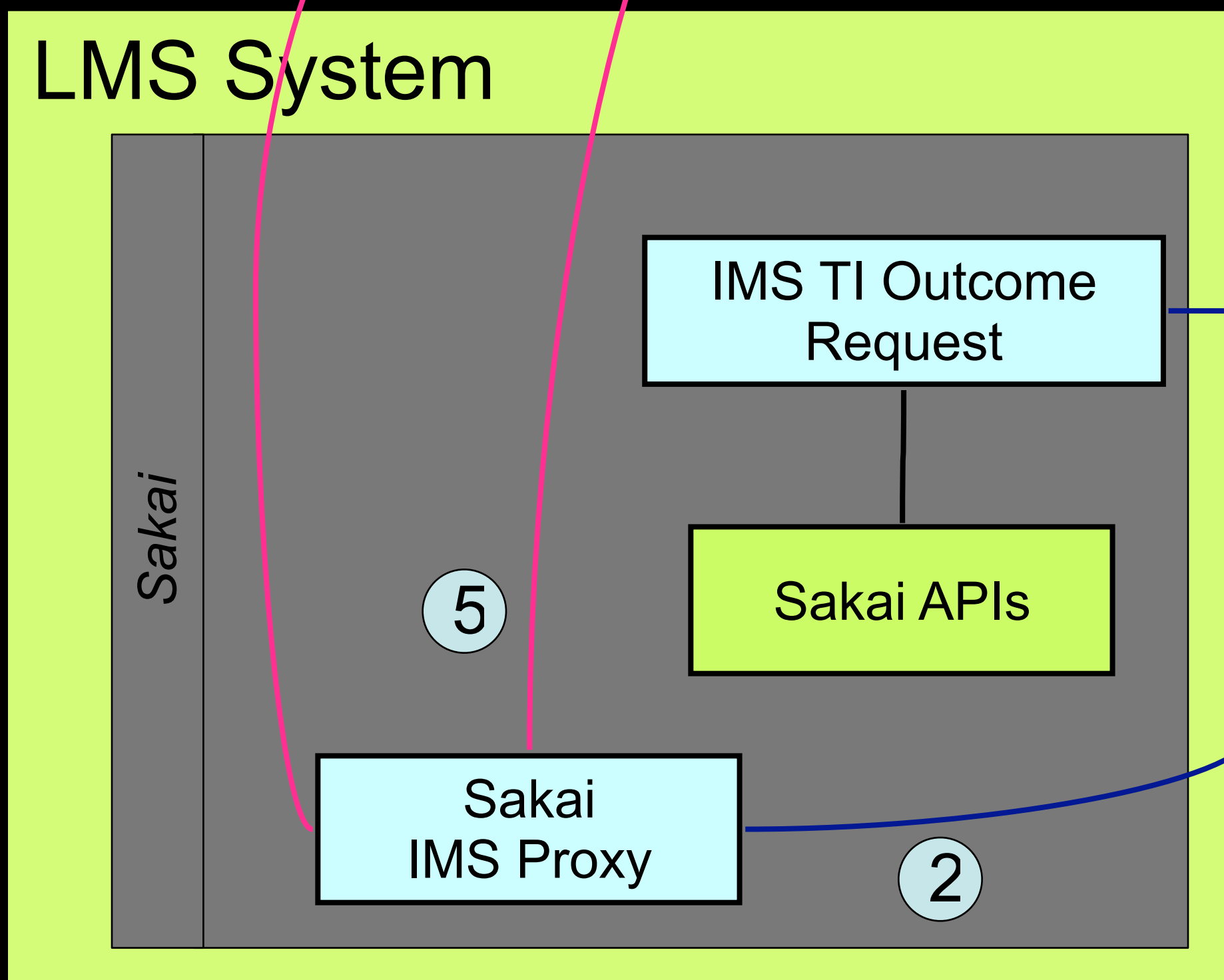
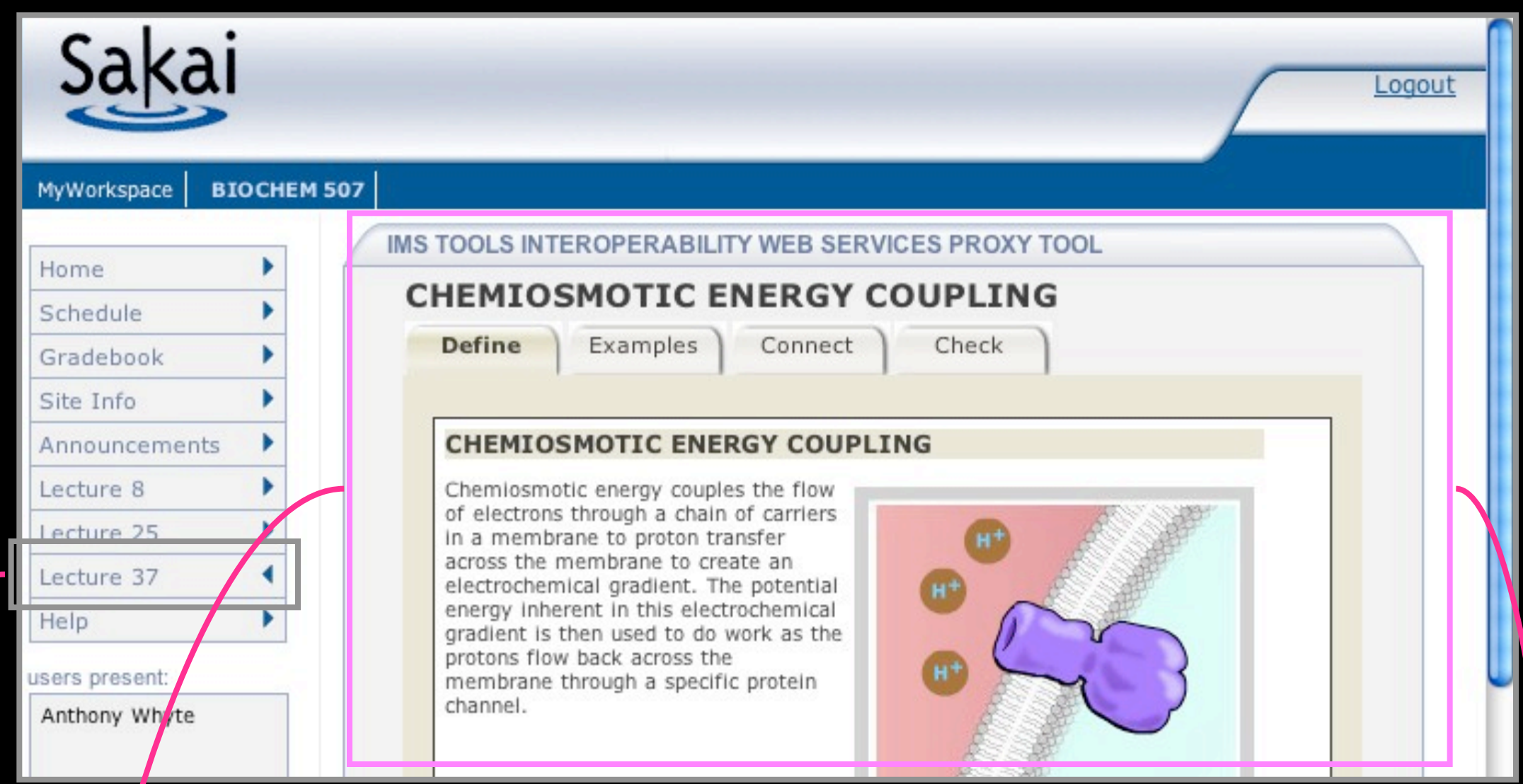


IMS Tool Interoperability

- Focus is on making tools portable between systems (Sakai, WebCT, and Blackboard)
- Established to further the discussion with commercial and other CMS/CLE providers
- Can be done “organically” – Web 2.0 style
- IMS Tool Interoperability Version 1.0
 - Uses web services and IFRAMES
 - Roughly based on WebCT PowerLinks
 - Does not require tools to be written in Java
 - Currently in contrib space in Sakai
- IMS Tool Interoperability Version 2.0
 - Work is underway – significant increase in scope

How IMS Tool Interoperability Works

Sakai
Blackboard
WebCT
Angel



Outcome

Launch

Pluto Portal

http://localhost:8090/pluto/portal//IMS%20Tool%20Interoperability/_pm0x3in

Sakai Collab Source Bugs Confluence Pluto S:8080 PDA uP3 Desiderata GVideo IMSTI DNS Devbox Gmail Band

APACHE PLUTO

Logout

Navigation:

IMS Tool Interoperability (JSR-168)

Add Merge Fields Permissions

Calendar by Week

View Calendar by Week

Apr 15, 2007 - Apr 21, 2007 EDT

< Previous Week Today Next Week >

Printable Version

Earlier

	Sun 15	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21
8 AM							
9 AM							
10 AM							
11 AM							
12 PM							
1 PM							
2 PM							

http://localhost:8080/portal/pda/b3ab...69-ed4a-4fbf-00be-b2caeb596370/target

http://localhost:8080/portal/pda/b3abd26c-23cl

Sakai Collab Source Bugs Confluence Pluto up3 S:8080 PDA uP3 Desiderata

Sites > IMS TI Testing > IMSTI (?)

Log Out

Tool List

OXIDATIVE PHOSPHORYLATION

Define Examples Connect Check

OXIDATIVE PHOSPHORYLATION

The enzymatic phosphorylation of ADP to ATP coupled to electron transfer from a substrate to molecular oxygen. Oxidative phosphorylation has the following attributes:

mitochondrial oxidative phosphorylation

- occurs in the mitochondrion (and some other compartments)
- electrons are passed down the electron-transfer chain
- redox reactions of the electron-transfer chain move protons to the intermembrane space
- phosphorylation of ADP is coupled to re-entry of protons into the matrix through the enzyme ATP synthase

Close Window

Implementations

- Sakai Tool (Anthony)
 - Fully compliant
 - Multiple tools per placement
 - Rich persistence
- JSR-168 Portlet (Chuck)
 - Does not support Outcome Request
 - Users JSR-168 preferences as persistence
 - Portable between Sakai and Portals
 - Extensions
 - IMS TI Lite – SOAP Lite
 - Load Descriptor from URL

APACHE PLUTO JSR-168 Portlet

JSR-168 Portlet Sakai Tool

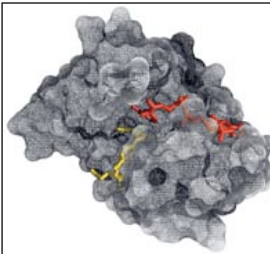
Sakai

Define Examples Connect Check

ACTIVE SITE

The region of an enzyme that binds a substrate molecule and catalyzes its transformation. Also known as the catalytic site. The image shows a net contour model of the enzyme dihydrofolate reductase with substrates NADP⁺ (red) and dihydrofolate (yellow) bound to the active site. An active site has the following attributes:

- a high degree of specificity for its substrate(s).
- weak interactions between substrate(s) and regions of the active site lower activation energy by holding the molecule in position for reaction.
- catalytic groups in the active site lower activation energy by activating the substrates for reaction.
- these enzyme-substrate interactions increase the rate of the reaction.



IMS Tool Interoperability (JSR-168)

Welcome to EndpointTool.php
This is the actual running tool.

```
SiteId= toolInstance.getContextProfile().getSourceId()
LaunchIdentifier= toolInstance.getLaunch().getLaunchIdentifier()
Role= admin
EID=
UserId=
FirstName=
LastName=
```



IMS TI
IMS TI
Lite

Tools Interoperability Version 2

- co-Chair: Annie Chechitelli Wimba / Chris Moffatt Microsoft
- Focus on Run-time Environment
- Hoped for scope: Web services for
 - User and Course
 - Mail
 - Calendar
 - Assessment
 - Gradebook
 - File Manager
- Would like to borrow inspiration from WebCT PowerLinks
- I would like to make it **possible** to do TI without iframes using WSRP – hard task

Demo