Using Drupal to Transform Education

bto pro
@bto pro

http://bto pro.com/
http://drupal.psu.edu/

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Drupal Education Unconf

- Drupalcon Portland
- Monday May 20th, 2013
- Follow Funnymonkey.com
btopro

- Contrib / distribution dev from PSU
- Head of ELMS initiative (GPL)
- Allow philosophy to drive tech
- Don’t just say things, do them
Society pushing change

- Massively open online course
- "MOOC" -> Educators as ‘Like whatever’ -> teenagers
- Everyone talking about it or OER
- Lots of evidence this provides quality experiences (see next slide)
Seriously though

- Great opportunity / risk
- Disrupt or be disrupted
- Regardless, need to provide better experience / outcomes
Just 1 attempt to disrupt

- Philosophy: Structured Anarchy
- Technology: Drupal + LTI
- Goal: extend experiences beyond what a single system can provide
- How: Series of interconnected multi-sites that users can create, access and expand on-demand
Single point of failure

LMS (ANGEL)
Over Crowded feature-set

MS (ANGEL)

content
discussions
rosters
mail
collab
syllabus
grades
Rubrics
Faculty / student response

LMS (ANGEL)

- Discussion
- Course
- Rubrics

- Blogging
- Studio
Inflexibility
Maximizing flexibility
LTI launch

LMS (ANGEL)

Instructor

Want to Extend Experience
Clicks link to add External Tool

Prepopulated form
Request form filled out based on context of request

Instructor

Course Information System (Online)

Studio

Blogging

Rubrics

Case based learning

Course

Discussion
Ok CIS, let's go make the course first
backend drush script is invoked

What this does...
- Creates symlink on the Courses's system courses/art020
- Creates database / db user called courses_aa_art020
- Creates site files in multisite (courses/sites/courses/aa/art020)
- Creates site record in sites/sites.php
- Executes a Drush SI to install the MOOC distribution
- Writes a UUID into the service that's listed in CIS
- Runs any other crush commands CIS said
- Imports the selected instructional outline (MOOC only)
- Runs cron

What Cron does...
- Uses own UUID to request record in CIS
- Updates it's own record in CIS with own cron key
- Then refreshes list of known content outlines on service
- Asks CIS for latest college footer information
- Updates Section in CIS to UUID of the outline used
- Service is now self-aware, will keep in sync on cron job

Do this again for each other service requested...

ALL DONE! Time to email the person that requested this.
Clicks link
I want to access my course content

LMS (ANGEL)

Course Information System (Online)

Studio

Rubrics

Art 20

Instructor

Clicks link
I want to access my course content

Gets account in course
LTI hops make it seamless

Art 20

Course

Art 20

Play time!