



Futures

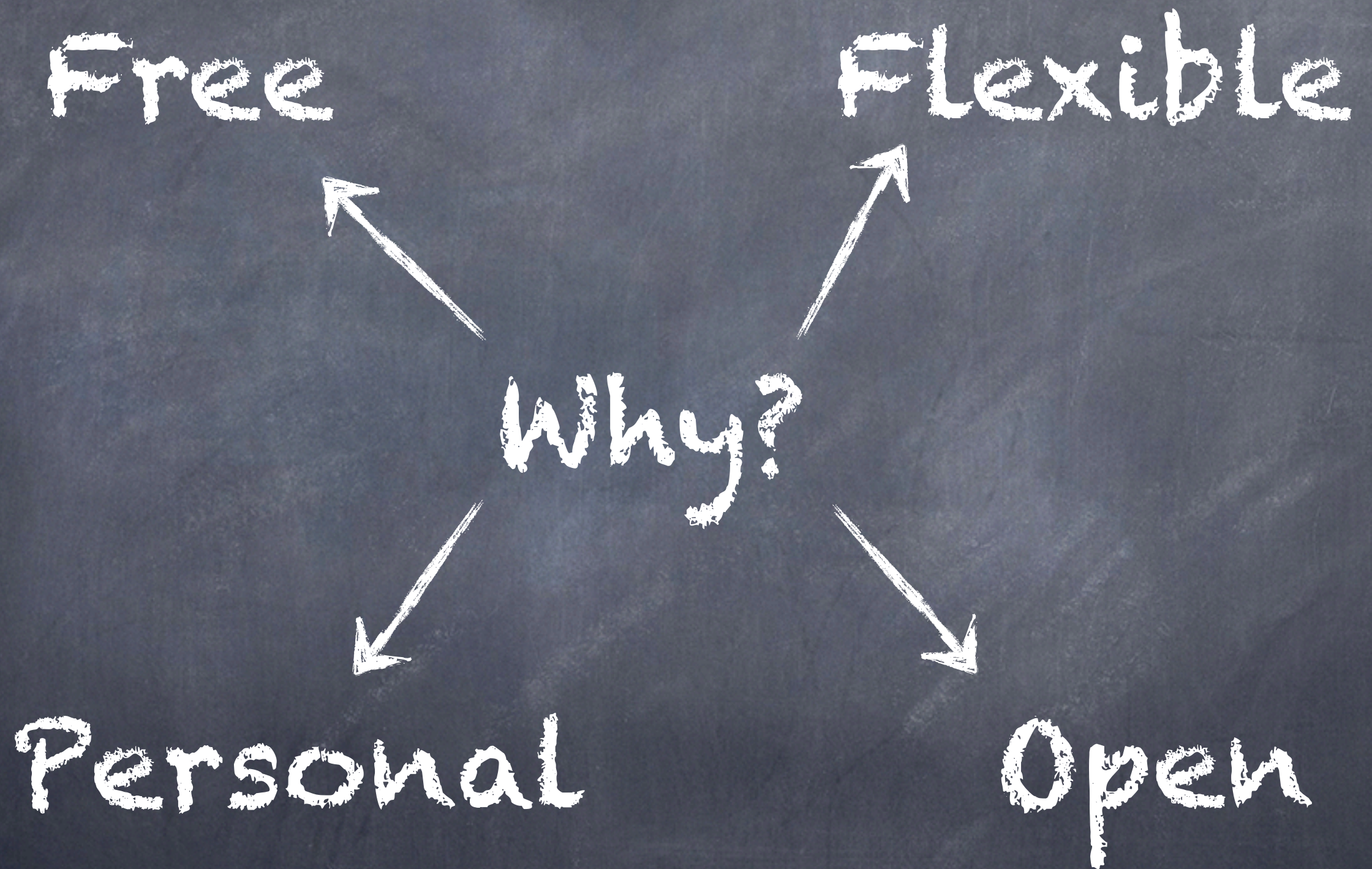
Martin Dougiamas

Lead Developer

Director of Moodle Pty Ltd

@moodler

#mootit12

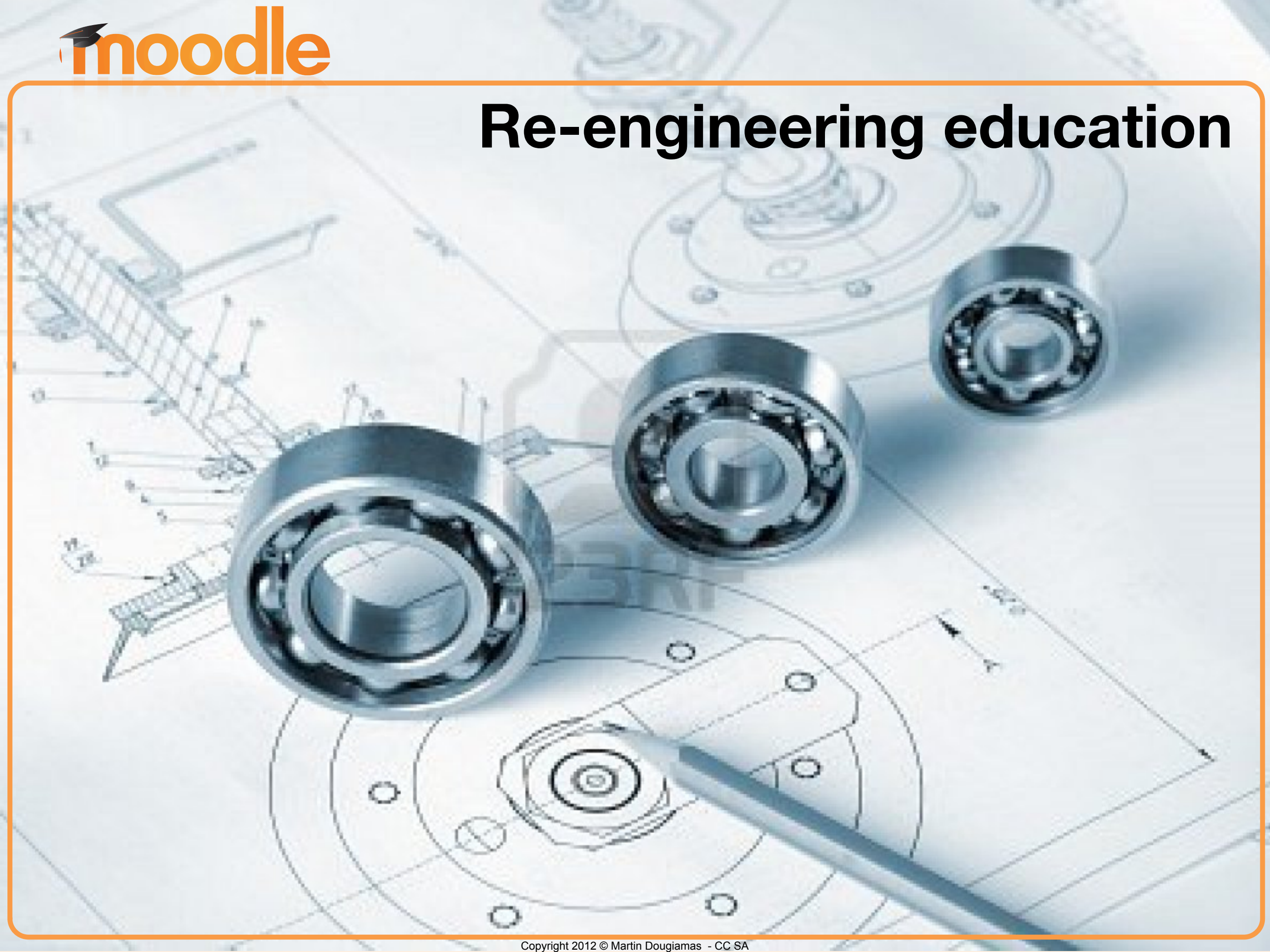





**Back to the
classroom**



Re-engineering education



Example progression of use

- 
- A thick, hand-drawn style yellow arrow pointing upwards, positioned to the left of the list items.
10. Research, custom code, communities of practice!
 9. Give students more power (structure/grades)
 8. Use Survey, reports to analyse / reflect
 7. Introduce external sites, activities, games, networks
 6. Combine the activities into sequences
 5. Wikis, Glossaries, Databases (collaboration/media)
 4. Facilitate discussions in the Forum. Questions!
 3. Assess via Quizzes and Assignments 90%
 2. Provide a passive Forum
 1. Publish content (Pages, SCORM, Video, Audio)

Why the lack of use?

The tools can be MUCH better

Moodle HQ Focus

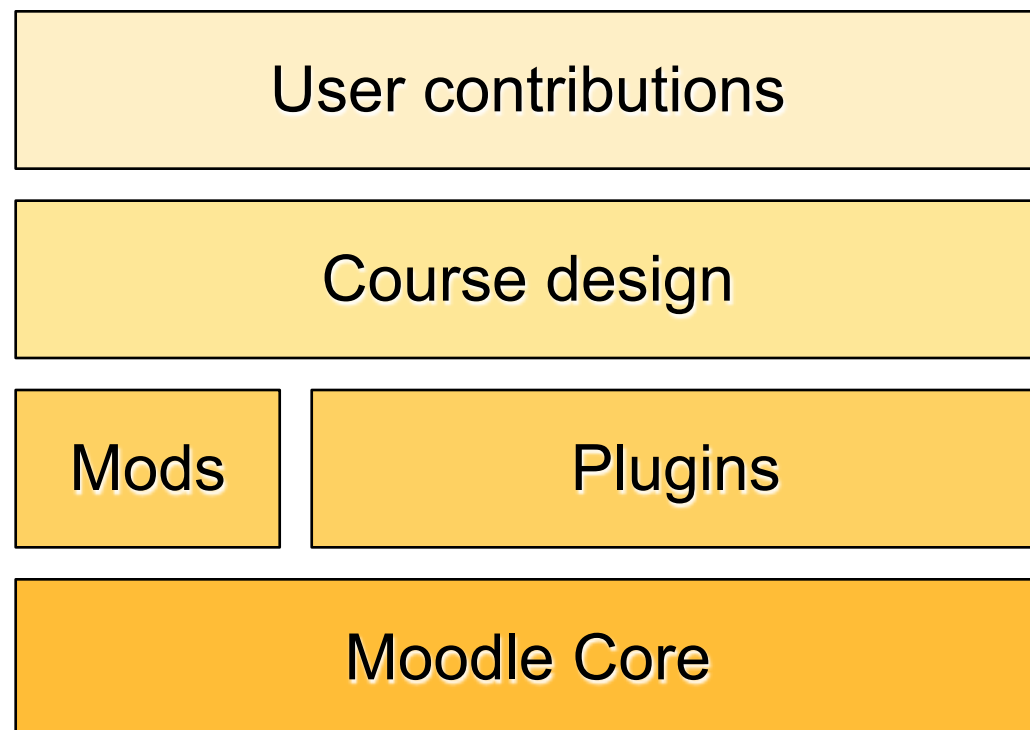
1. Plugins

2. Core development

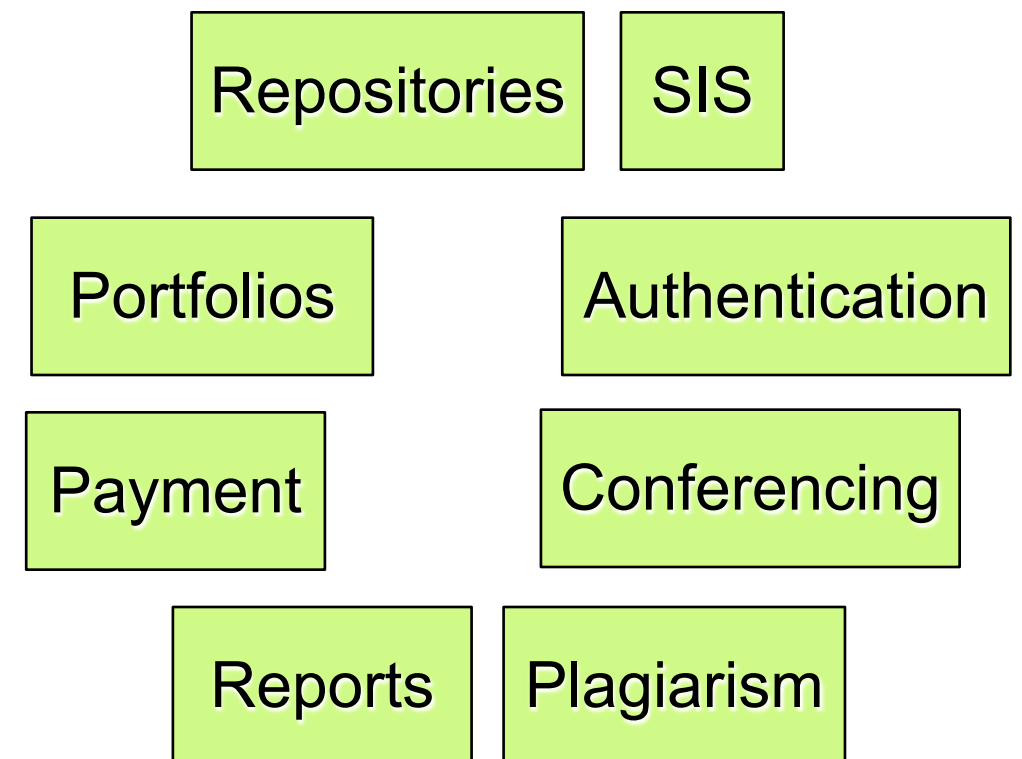
3. Community

Open Source Platform

Moodle



Open Source
Course Management System



Other Systems
(Open Source or Proprietary)

- ◆ Plugins - like “apps” for Moodle OS
- ◆ Easier for developers
- ◆ Easier for users
- ◆ Many improvements since Moodle 2.0



Plugins Database

Activities (82)

The main student activities in a course

[Assignment](#) (6) [Database](#) (1) [Workshop](#) (0)

[Quiz](#) (21) [SCORM](#) (0)

Themes (34)

Change the look and feel of your site or course

Gradebook (3)

There are several ways to extend the gradebook

[Grade reports](#) (1) [Grade exports](#) (2)

[Grade imports](#) (0) [Grading methods](#) (0)

Editors (1)

Alternative text editors for 2.0 or later

Portfolios (0)

Export user content to other systems

Admin tools (1)

Provides utility scripts useful for admins to examine and modify a Moodle site (2.2+)

Course formats (9)

Change the structure/layout of course pages

Reports (5)

Report plugins for administrators, teachers and general users.

[Admin reports](#) (0) [Course reports](#) (0)

General plugins (Local) (15)

General plugins go into the /local directory and do not fit into any particular category.

Messaging (0)

Redirect messages to other places

Plagiarism (5)

Connect to different plagiarism services

Other (5)

Useful code that does conform to any standard plugin type

Blocks (79)

Useful tools to add to courses or home pages

Filters (11)

Filters can process and change text

Users (18)

Tools for managing users

[Authentication](#) (11) [Enrolment](#) (6)

[User profile fields](#) (1)

Repositories (5)


Connect to repositories of files

Web service protocols (0)

Beyond REST, SOAP, AMF and XML-RPC ...

Plugins maintenance

Moodle 2.3 Notifications

Plugin name	Directory	Source	Current version	New version	Requires	Status
Activity modules						
 HotPot module	/mod/hotpot	Contributed	2010080230	2010080338	Moodle 2010112400	To be upgraded There is a new version 2010080340 available! Release v3.0.40 Stable version More info...

Moodle 2.4 Upgrades

Download and upgrade completely via web

Plugin Developer Docs

Overview

- [Releases](#)
- [Roadmap](#)
- [Development processes](#)
- [Developer meetings](#)
- [Credits](#)

[More overview info ...](#)

Plugin development

- [Activity modules](#)
- [Blocks](#)
- [Themes](#)
- [Course formats](#)
- [Enrolment plugins](#)
- [Authentication plugins](#)
- [Repository plugins](#)
- [Filters](#)

[Full list of plugin types ...](#)

Core APIs

- [Access API](#)
- [Data manipulation API](#)
- [File API](#)
- [Form API](#)
- [Logging API](#)
- [Navigation API](#)
- [Page API](#)
- [Output API](#)
- [String API](#)

[Full list of core APIs ...](#)

Guidelines

- [Coding guidelines](#)
- [Git use](#)
- [Contributing code](#)
- [Creating patches](#)
- [PHPUnit tests](#)
- [Writing tests](#)

[More concepts and guides...](#)

Developer tools

- [Setting up Eclipse](#)
- [Setting up Netbeans](#)
- [Firefox extensions](#)











[Full list of developer tools ...](#)

Projects

- [Mobile app](#)
- [Question Engine 2](#)
- [Course completion](#)
- [Student projects](#)

[Full list of projects ...](#)

Plugin Translation

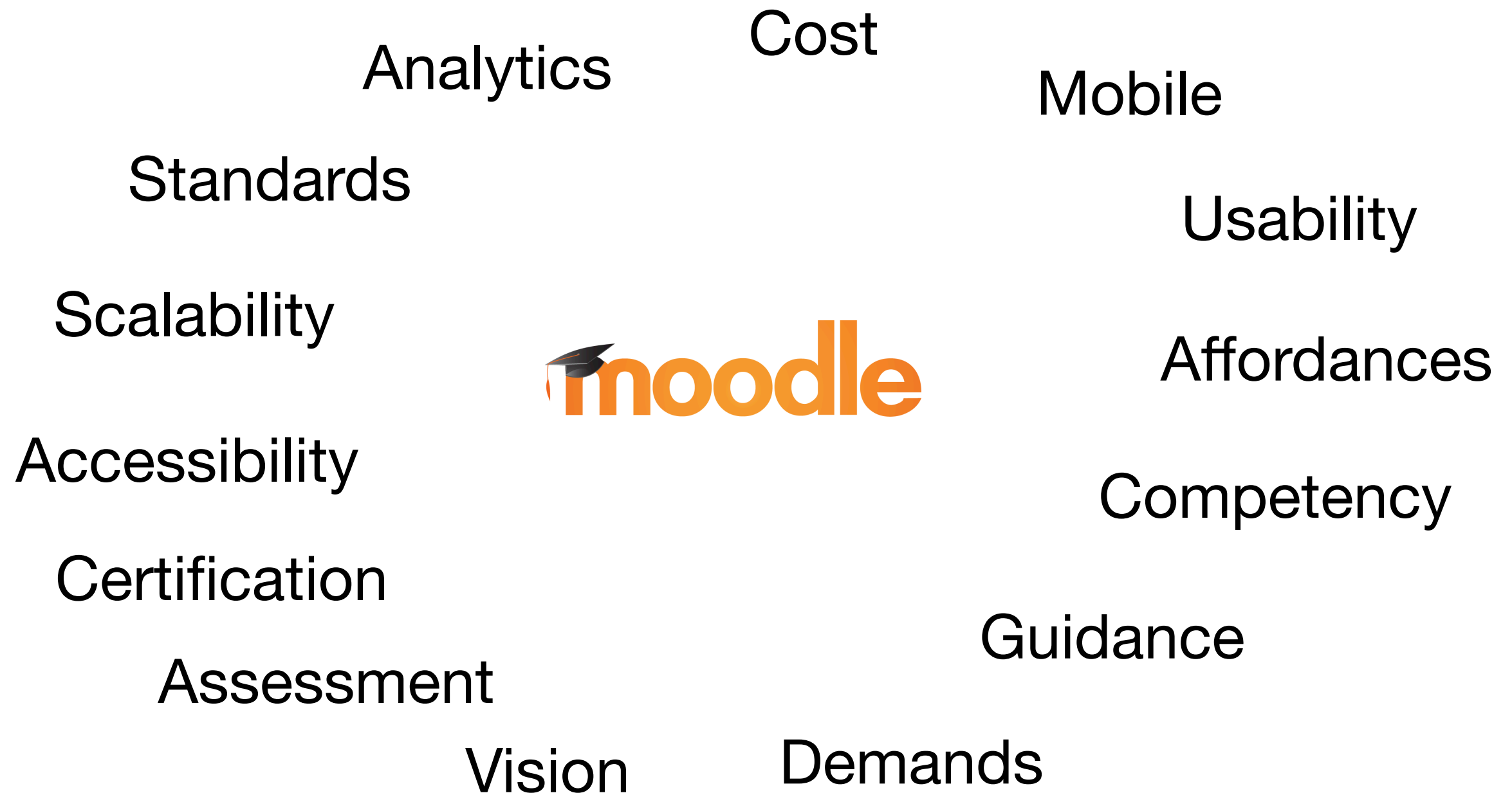
2.3 [clicktrailreport,hotpot]	Click trails 	he + -	לחץ לעקבות
2.3 [closed,hotpot]	This activity has closed 	he + -	הפעילות נסגרה
2.3 [clues,hotpot]	Clues 	he + -	רמזים
2.3 [completed,hotpot]	Completed 	he + -	הושלם
2.3 [configenablecache,hotpot]	Maintaining a cache of HotPot quizzes can dramatically speed up the delivery of quizzes to the students. 	he + -	
2.3 [configenablecron,hotpot]	Specify the hours in your time zone at which the HotPot cron script may run 	he + -	נא לציין את השעות באיזור הזמן אשר תסריט תרוץ HotPot-ה
2.3 [configenablemymoodle,hotpot]	This settings controls whether HotPots are listed on the MyMoodle page or not 	he + -	רשומות HotPots הגדרה זו קובעת האם או לא MyMoodle-בעמוד ה
2.3 [configenableobfuscate,hotpot]	Obfuscating the javascript code to insert media players makes it more difficult to determine the media file name and guess what the file contains. 	he + -	
2.3 [configenableswf,hotpot]	Allow embedding of SWF files in HotPot activities. If enabled, this setting overrides filter_mediaplugin_enable_swf. 	he + -	בפעילויות SWF מאפשר שיבוצ קבצי HotPots - אם מאפשר, הגדרה עוקפת את . filter_mediaplugin_enable_swf.
2.3 [configfile,hotpot]	Configuration file 	he + -	קובץ תצורה

External “Plugins” (Plugouts?)

1. Simple links/embeds
2. Learning objects
3. IMS LTI
4. GLUE!
5. Interfaces / standards



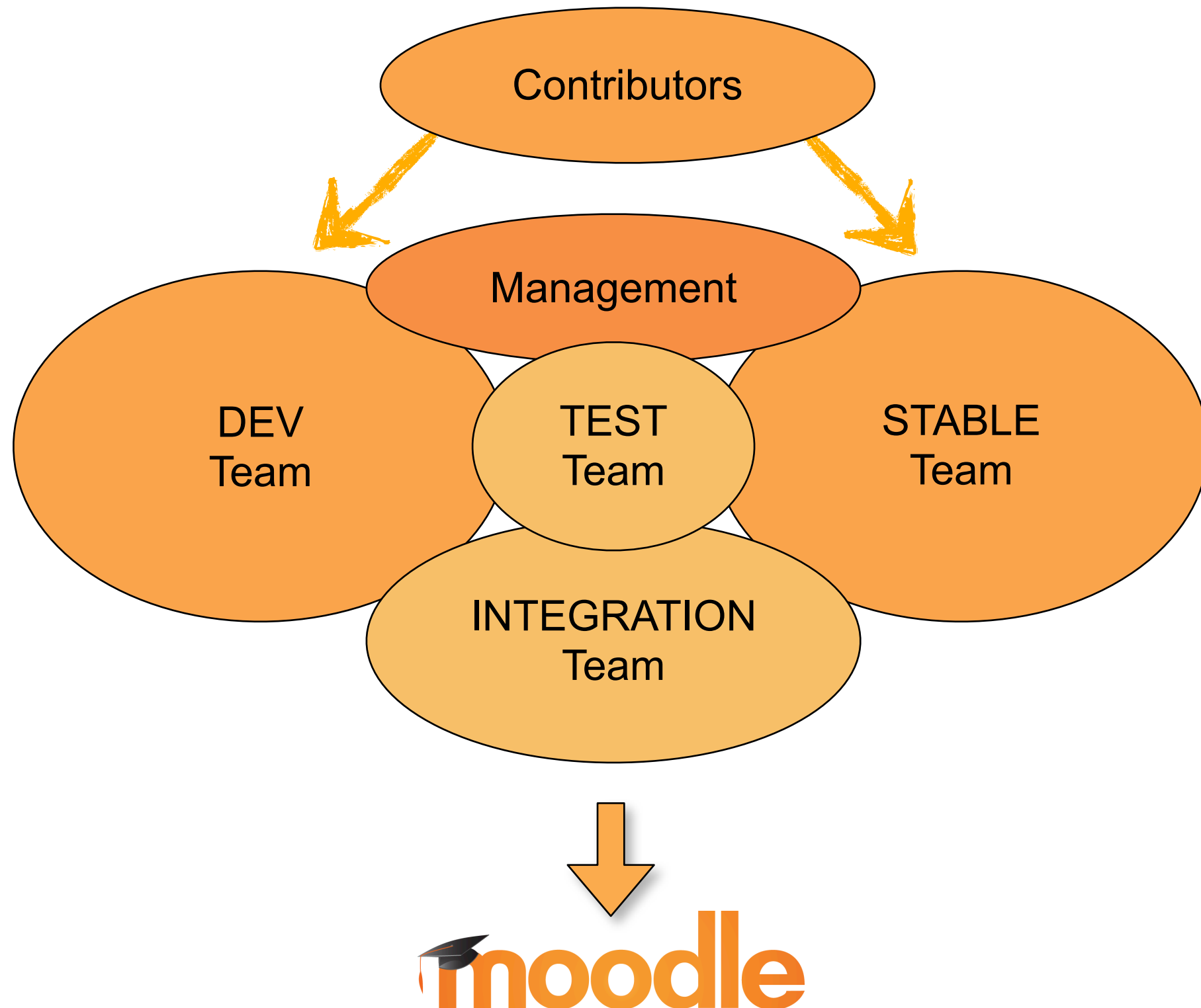
2. Core Development



Moodle HQ



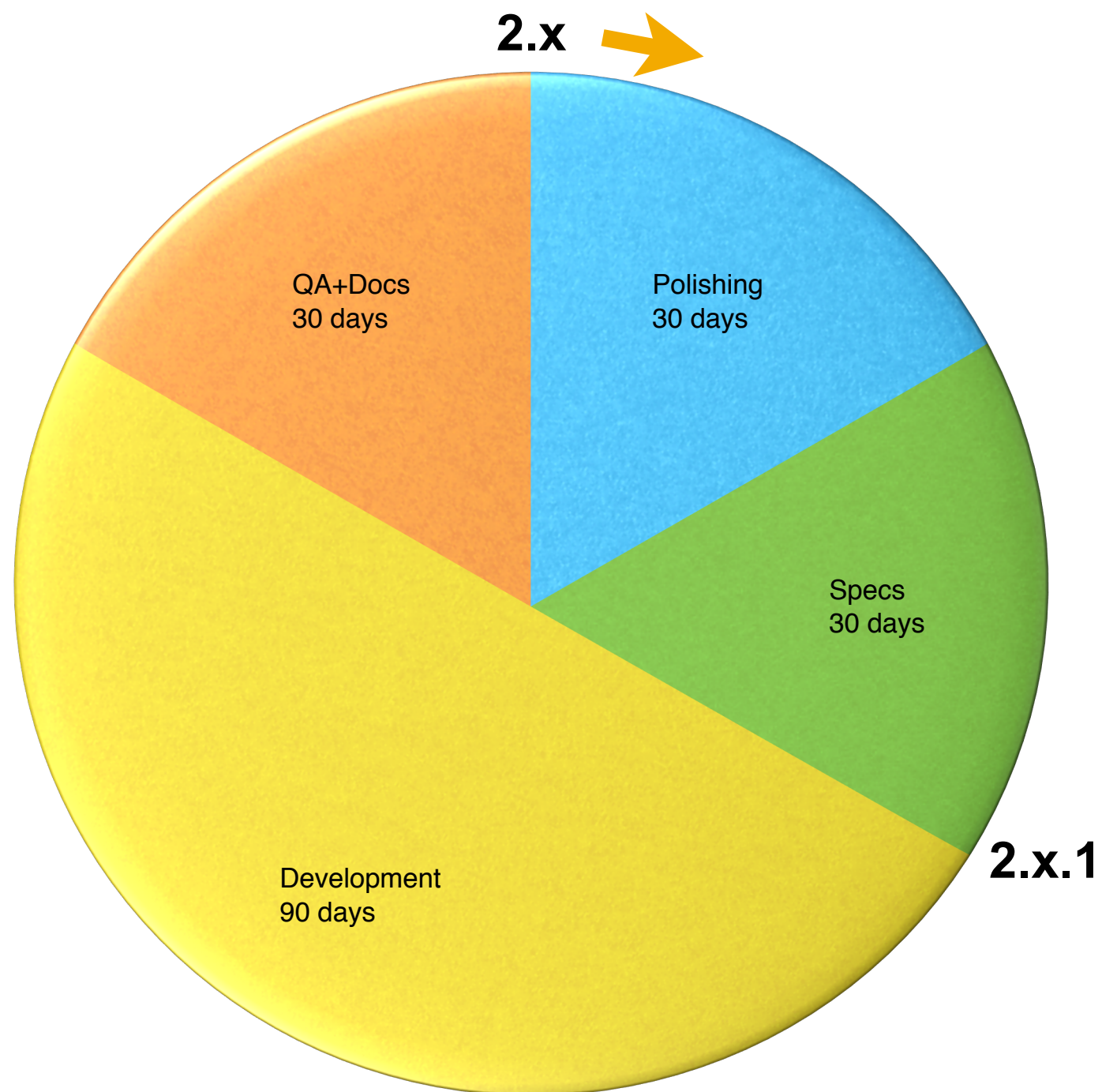
Core Development



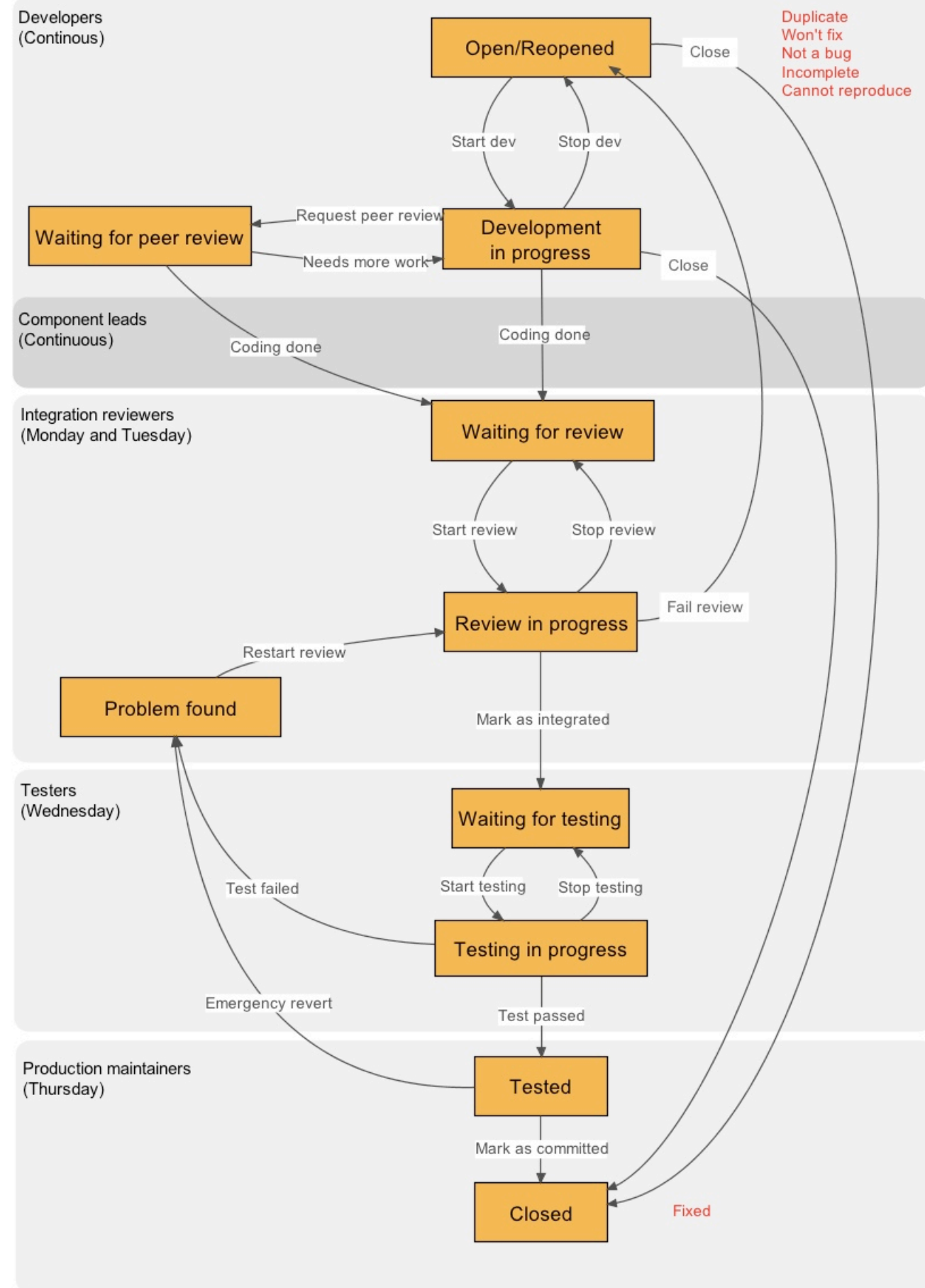
History

1999	0.0	First prototype versions	Video
11 / 2001	0.9	First pre-release version on the web	
8 / 2002	1.0	Forum, Survey, Journal, Resources, Quiz...	
8 / 2003	1.1	Backups, Workshop, Chat, Scales...	
3 / 2004	1.2	Filters, Groups, Glossary, Lesson ...	
5 / 2004	1.3	Calendar, Blocks, RSS, Media plugins ...	
8 / 2004	1.4	Installer, Resources, Enrolments, Wiki...	
6 / 2005	1.5	XHTML, Themes, Blocks, Gradebook ...	
6 / 2006	1.6	Unicode, Database, Docs, Blogs, Reports ..	
11 / 2006	1.7	Roles, Admin, Oracle and MSSQL, AJAX ..	
3 / 2007	1.8	Accessibility, MNet, Forms, Multi-auth...	
3 / 2008	1.9	Gradebook, Outcomes, Performance, Tags, Notes..	
7 / 2010	2.0	Huge refactors, DB, Files, Interface, Navigation etc	
7 / 2011	2.1	Question engine, Mobile App, Restore 1.9...	
12 / 2011	2.2	Rubrics, IMSLTI, IMSCC, iPad, Gravatars ...	
6 / 2012	2.3	Files UI, External Files, Course UI, Assignment, Book ...	

6-month cycle



Review Process



New developments into core

- ◆ Difficult to generalise
- ◆ Strong coding standards
- ◆ Always has compromises and trade-offs



1st Moodle Research Conference / Heraklion, Crete-Greece

[Call for Papers](#)[Topics](#)[Important Dates](#)[Organization](#)[Venue](#)[Registration](#)[Programme](#)[Contact](#)

1st Moodle Research Conference

Creta Maris Conference Centre

**SEPTEMBER
14-15, 2012**

Heraklion, Crete, Greece

REGISTER

The Moodle Research Conference

The Moodle Research Conference will become a major event for academics, researchers, experts and practitioners - sharing experiences, research achievements and innovative developments with Moodle.

Hacktoberfest 2012

40 developers (all of HQ devs plus 20 others)

Brainstorming future tech developments

Deciding on architecture changes

Working on code together

5 days



Moodle 2.4, 2.5 ...

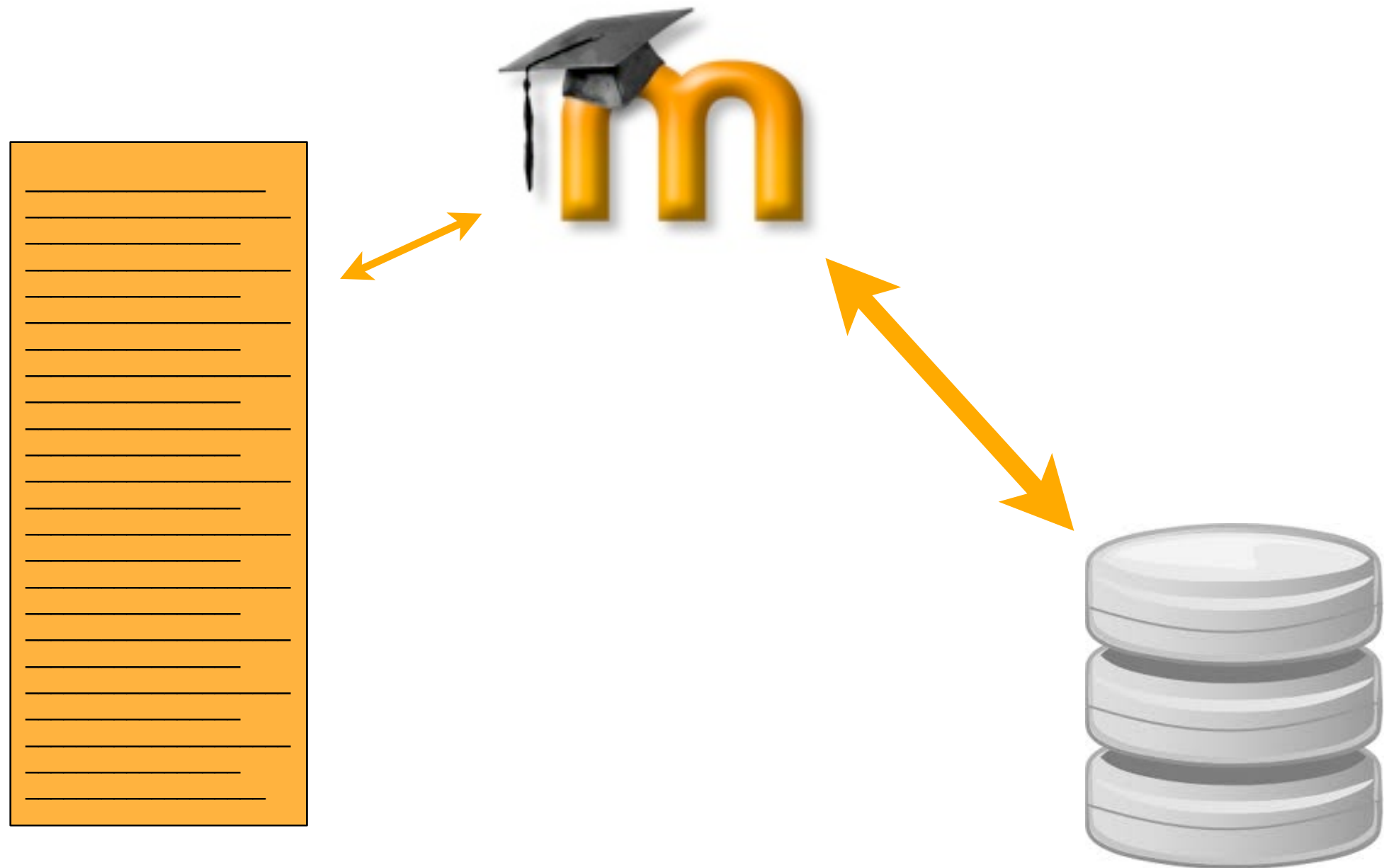
Major projects being worked on:

- ◆ **Performance** - Moodle Universal Cache (MUC) to improve performance for large sites
- ◆ **Usability** - Completely new default icon set and graphic design
- ◆ **Course formats** - rewrite to make course formats more flexible and pluggable
- ◆ **Plugins** - direct download and upgrade via web interface
- ◆ **Upgrade 1.9 to 2.2** - sprint session to increase robustness for a wider range of sites
- ◆ **Assignment** - many new features from Netspot et al like groups, etc
- ◆ **Calendar** - import iCal streams into the Moodle calendar
- ◆ **Moodle Mobile** - new HTML5 app for all platforms

Major projects for the very near future:

- ◆ **Analytics/Reporting** - a new framework for reporting and analytics
- ◆ **Outcomes stage 2** - deep integration of outcomes/competencies in Moodle
- ◆ **Collection module** - combining Survey, Questionnaire and Feedback
- ◆ **Forum** - Review ForumNG from OU as a complete replacement for forum in core
- ◆ **Wiki** - Review OUWiki as a replacement for wiki in core
- ◆ **Usability** - A new interface for course/category management
- ◆ **Mnet** - replacement using standard OAuth2 mechanisms and web services
- ◆ **Multi Tenancy** - framework to make it easy to manage multiple instances of Moodle

Moodle Universal Cache



3. Community

- ◆ **moodle.org**
- ◆ **tracker.moodle.org**
- ◆ **docs.moodle.org**
- ◆ **moodle.com**
- ◆ **hub.moodle.org**

Questions?

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