

New Approaches to Visualising Learning Designs

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Overview

- Open Education
- LAMS Update
 - New LAMS International Partner in Singapore – NTU
 - New LAMS Foundation website
 - New Features in LAMS V2.2
 - Upcoming in 2009
- Ideas for new visualisations

Open Education

- The Cape Town Declaration provides a statement of principles of free sharing for open education
 - www.capetowndeclaration.org
 - You can sign up at the website to show your support
 - NB: Different meaning to distance/flexible education
- “everyone should have the freedom to use, customize, improve and redistribute educational resources without constraint”
 - Free to use (no cost)
 - Freedom to change

The Cape Town Open Education Declaration - Windows Internet Explorer

http://www.capetowndeclaration.org/read-the-declaration

The Cape Town Open Education Declaration

Log in Register

THE CAPE TOWN OPEN EDUCATION DECLARATION

- Home
- Read the Declaration
- Sign the Declaration
- View Signatures
- Translations
- FAQ
- Press
- Related Initiatives
- Comments

Read the Declaration

Cape Town Open Education Declaration: Unlocking the promise of open educational resources

We are on the cusp of a global revolution in teaching and learning. Educators worldwide are developing a vast pool of educational resources on the Internet, open and free for all to use. These educators are creating a world where each and every person on earth can access and contribute to the sum of all human knowledge. They are also planting the seeds of a new pedagogy where educators and learners create, shape and evolve knowledge together, deepening their skills and understanding as they go.

This emerging open education movement combines the established tradition of sharing good ideas with fellow educators and the collaborative, interactive culture of the Internet. It is built on the belief that everyone should have the freedom to use, customize, improve and redistribute educational resources without constraint. Educators, learners and others who share this belief are gathering together as part of a worldwide effort to make education both more accessible and more effective.

The expanding global collection of open educational resources has created fertile ground for this effort. These resources include openly licensed course materials, lesson plans, textbooks, games, software and other materials that support teaching and learning. They contribute to making education more accessible, especially where money for learning materials is scarce. They also nourish the kind of participatory culture of learning, creating, sharing and cooperation that rapidly changing knowledge societies need.

However, open education is not limited to just open educational resources. It also draws upon open technologies that facilitate collaborative, flexible learning and the

SHUTTLEWORTH FOUNDATION

OPEN SOCIETY INSTITUTE

Internet 100%

Cape Town Declaration: www.capetowndeclaration.org

Open Education & LAMS

- LAMS is an example of Open Education
 - LAMS software freely available as open source software
 - LAMS Community support free sharing of sequences under open content licenses (Creative Commons)
- Long before the Cape Town Declaration, I felt we needed a new approach to e-learning to allow us to:
 - Describe and capture good pedagogical approaches
 - Make these approaches (Learning Designs) shareable
 - Make it easy to adapt and improve shared approaches
 - ...while avoiding closed software and file formats

LAMS International Partners

- LAMS International is the services and support company for LAMS
 - Provides fee-based hosting, technical support, training, etc
 - NB: No one is required to pay for using LAMS – optional
 - www.lamsinternational.com
- LAMS International has official partners in several countries
 - Data Pacific – Japan
 - Huazhong University – China
 - Solution Grove – USA

New LAMS International Partner: NTU

- I'm delighted to announce a new LAMS International partner for Singapore – Nanyang Technological University
- Builds on several years of collaboration on LAMS, especially integration with Blackboard (many thanks!)
- *“When I heard James Dalziel sharing about LAMS at an eAgenda event, I knew my eyes had seen the future. We have progressed together a long way from then. Today marks a partnership that history may well one day identify as an important milestone in the development of online courseware. We are excited that on that day, NTU and LAMS International forged a partnership.”*

Professor Daniel Tan, Director of the Centre for Educational Development (CED) at NTU.

New LAMS Foundation website

- The LAMS Foundation website has been looking a bit tired for some time
- Despite great work by the LAMS team some time ago (ahem), I hadn't finalised the new site until this week
- Better late than never...
 - www.lamsfoundation.org

[-> Home](#)[About Us](#)[News](#)[Resources](#)[LAMS Community](#)[Conferences](#)[Downloads](#)[Developers](#)[Help](#)

What is LAMS?

LAMS is a revolutionary new tool for designing, managing and delivering online collaborative learning activities. It provides teachers with a highly intuitive visual authoring environment for creating sequences of learning activities.

LAMS is free, as open source software

[guided tour >>](#)[watch video >>](#)

Try LAMS Now!

Sign up for a [free account](#) for LAMS. You are given access to Author, Monitor and Learner, so you can create, monitor and run sequences to experience the LAMS difference!

Download

Download LAMS for free!
Get the latest version of LAMS - v2.2
For [system requirements](#) and all technical documentation see the [Technical Wiki](#).

LAMS Tutorials

For a quick and easy way to learn about LAMS see this [series of animated tutorials](#).
For general information see the [Documentation Wiki](#).

Commercial Support

LAMS International provides a range of commercial services including technical support, hosting, training, integration and software development.

[Go to LAMS International Website.](#)

LMS Integrations

LAMS is integrated with various Learning Management Systems (LMS) such as Moodle, Blackboard/WebCT, Sakai and .LRN as well as Microsoft Sharepoint. [More...](#)

LAMS Community

The [LAMS community](#) is a global community website for teachers and developers who use LAMS. It includes a repository of ready-to-use LAMS sequences.

LAMS V2.2

- Today is the official release for LAMS V2.2
 - Will try for six monthly releases at conferences
- LAMS V2.0 provides foundations for many years of further LAMS development
 - New architecture, ground-up rewrite
 - LAMS Tools Contract
- LAMS V2.1 illustrates some of the powerful new features that can be built on the V2 foundations
 - Eg, Branching, Optional sequences

http://stinger.melcoe.mq.edu.au - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

Forum
Online threaded discussion tool (asynchronous).

- Chat
- Chat and Scribe
- Forum**
- Forum and Scrib...
- Multiple Choice
- Notebook
- Noticeboard
- Q and A
- Resources and F...
- Share Resources
- Submit Files
- Survey
- Voting

Interactive Whiteboards Role Play - Branching

```
graph LR; Start(( )) --> N1[Notebook - Pro]; Start --> N2[Notebook - Con]; Start --> N3[Notebook - Mgt]; Start --> N4[Notebook - Student]; N1 --> Q1[Q and A - Pro]; N2 --> Q2[Q and A - Con]; N3 --> Q3[Q and A - Mgt]; N4 --> Q4[Q and A - Student]; Q1 --> F1[Forum - Pro]; Q2 --> F2[Forum - Con]; Q3 --> F3[Forum - Mgt]; Q4 --> F4[Forum - Student]; F1 --> End(( )); F2 --> End; F3 --> End; F4 --> End;
```

Properties

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zotero

LAMS 2.1: Role play: Inside branching for role tasks

http://stinger.melcoe.mq.edu.au - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

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Activities Toolkit

Share Resources
Sharing resource with others.

Chat

Chat and Scribe

Forum

Forum and Scrib...

Multiple Choice

Notebook

Noticeboard

Q and A

Resources and F...

Share Resources

Submit Files

Survey

Voting

Untitled - 1

Noticeboard

Share Resources

Forum

Optional Sequences
3 - Sequences

Properties - Optional Sequences

Title: Optional Sequences

Description: Choose one or more extension sequences

No of Sequences: 3

```
graph TD; NB[Noticeboard] --> SR[Share Resources]; SR --> F[Forum]; F --> OS[Optional Sequences]
```

Read stinger.melcoe.mq.edu.au

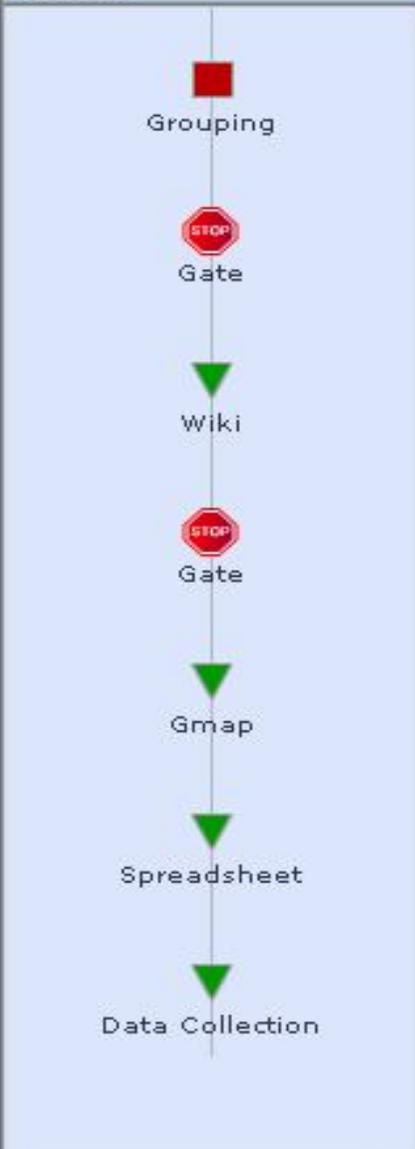
zotero

LAMS 2.1: New Optional Sequences - allows students to choose 1 or more sequences

LAMS V2.2

- New LAMS V2.2 features include:
 - Student selected groups
 - Text-based Conditions for Branching
 - Individual Gates (individual release & individual Conditions)
 - Learning Objective/Competency description and mapping to tools
- Four new activity tools:
 - Wiki
 - Data Collection
 - Google Maps
 - Online Spreadsheet

For more details on these and many more features, see
<http://wiki.lamsfoundation.org/display/lams/LAMS+2.2+Feature+List>



Grouping

Please select a group. Some groups may not be available if they reached the maximum number of members.

Groups	
Group 1	Choose
Group 2	Choose



LAMS 2.2: Learner Selected Groups

Question(s) and Answer(s)



Basic

Advanced

Instructions

Conditions

Conditions

Order	Name
There are no conditions	

+ Add condition

Add condition

Name

Answers that...

have all these words:

have this exact wording or phrase:

have one or more of these words:

have none of these unwanted words:

Search in these questions:

Give an example of a colour of the rainb...

+ Add

Cancel

LAMS 2.2: Creating Text-based Conditions (Q&A example)

Permission Gate

2 out of 3 are waiting in front of the gate.

Open

You may open the gate for the whole class



You may allow a single learner to pass the gate

Forbidden to pass

- Dalziel James
- Moloney Glenn
- Carter Sue

Allow to pass

Waiting in front of the gate

- Dalziel James
- Moloney Glenn

Allow to pass

Allowed to pass

-

LAMS 2.2: Individual Permission Gate Option (Monitor)

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

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Activities Toolkit

Data Collection
Collecting data with custom structure.

- Chat
- Chat and Scribe
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- Forum
- Forum & Scribe
- Gmap
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- Share Resources
- Spreadsheet

Example

```
graph TD; Grouping[Grouping] --> Stop1[STOP]; Stop1 --> Wiki[Wiki]; Wiki --> Stop2[STOP]; Stop2 --> Gmap[Gmap]; Gmap --> Spreadsheet[Spreadsheet]; DataCollection[Data Collection] --> Spreadsheet;
```

Properties - Gate Activity

Title	Gate	Create Conditions
Type	Condition	Map Gate Conditions
Input (Tool)	Wiki	

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LAMS 2.2: Condition-based Gates

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

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Example

Create Output Conditions

output learner number of edits (range) ?
[Options]

+ Add

Name	Condition
2 or more edits	Greater than or eq 2
Less then 2 edits	Range 0 to 1

Clear All - Remove
Cancel Done

Properties - Gate Activity

Title Gate
Type Condition
Input (Tool) Wiki

Create Conditions
Map Gate Conditions

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LAMS 2.2: Condition-based Gates – Creating Condition using Wiki output (number of edits)

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

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Activities Toolkit

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Collecting data with custom structure.

Chat

Chat and Scribe

Data Collection

Dimdim

Forum

Forum & Scribe

Gmap

Multiple Choice

Notebook

Noticeboard

Q & A

Resources&Forum

Share Resources

Spreadsheet

Map Gate Conditions

Condition	Gate	Mappings				
Less then 2 edits	open	<table border="1"> <thead> <tr> <th>Condition</th> <th>Gate</th> </tr> </thead> <tbody> <tr> <td>2 or more edits</td> <td>open</td> </tr> </tbody> </table>	Condition	Gate	2 or more edits	open
Condition	Gate					
2 or more edits	open					
	closed (default)					

Close

Properties - Gate Activity

Title: Gate

Type: Condition

Input (Tool): Wiki

Create Conditions

Map Gate Conditions

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LAMS 2.2: Condition-based Gates – Mapping Condition to Gate Open/Closed

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Competence Editor

Competencies

Title	Critical Thinking	
Description	Display evidence of critical thinking skills	Edit Delete
Title	Domain Knowledge	
Description	Show evidence of understanding relevant domain knowledge for this sequence	Edit Delete
Title	Teamwork	
Description	Display evidence of ability to work effectively in teams	Edit Delete

Add Close

Properties

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LAMS 2.2: Creating Competencies/Learning Objectives for a sequence

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File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

Chat
Chat Tool

Chat

Chat and Scribe

Data Collection

Dimdim

Forum

Forum & Scribe

Gmap

Multiple Choice

Notebook

Noticeboard

Q & A

Resources&Forum

Share Resources

Untitled - 1

Competence Mappings

Competencies

1	Critical Thinking	<input type="checkbox"/>
2	Domain Knowledge	<input type="checkbox"/>
3	Teamwork	<input checked="" type="checkbox"/>

OK

Properties - Chat

Title: Chat

Grouping: None

Offline Activity

Define in Monitor

Map to competencies

The screenshot shows the LAMS 2.2 Author interface in Mozilla Firefox. On the left is the 'Activities Toolkit' with various activity icons. The 'Chat' activity is selected and highlighted in yellow. A 'Competence Mappings' dialog box is open, showing a list of competencies: 'Critical Thinking', 'Domain Knowledge', and 'Teamwork'. The 'Teamwork' checkbox is checked, and a red arrow points to it. Below the dialog, the 'Properties - Chat' panel is visible, showing the activity title 'Chat' and grouping 'None'. A 'Map to competencies' button is also highlighted with a red arrow. The status bar at the bottom shows the URL 'http://lamsv2.lamsfoundation.org' and the 'zotero' logo.

LAMS 2.2: Mapping specific competencies to individual activities

Upcoming in 2009

- LAMS Activity Planner (aka Pedagogic Planner)
 - Prepared templates based on good pedagogical approaches combined with easy authoring
 - May be combined with “Cloud LAMS”
- Integrating LMS tools inside LAMS sequencing
 - Moodle & .LRN Forum examples so far, more to come
- LAMS V2.3 (proposed – but no promises!)
 - Instant Messaging
 - Export activity results to Gradebooks
 - Floating activities
 - Multiple conditions for branching
 - Tools inputs and outputs (passing data between tools)
 - New Image gallery tool & SCORM player for Share Resources



- My Profile
- Author**
- Planner
- My Groups

Welcome Teacher

[Refresh](#) | [Logout](#)

Activity Planner :: Teaching Style

Close
The emphasis of the learning design is interacting and collaborating with peers to facilitate the discovery of differing perspectives...

Exploring Alternative Perspectives - ([Why would I use this?](#))

Provides students with an balanced view of a controversial topic

Problem-based Learning - ([Why would I use this?](#))

Problem-based learning builds a lesson around a central question that requires the students to either solve a problem or make a decision.

Project/Case Study Focus - ([Why would I use this?](#))

The emphasis of the learning design is to create a product or artifact.

Role Play Focus - ([Why would I use this?](#))

The emphasis of the learning design is subrogation: "walking in the shoes of others"

LAMS Activity Planner: Selecting a template

Mozilla Firefox

File Edit View History Bookmarks Tools Help

file:///C:/Documents%20and%20Settings/James%20Dalziel/Desktop/Ped_plannerv2.htm

Google

LAMS

My Profile Author Planner My Groups

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Activity Planner :: Teaching Style

Exploring Alternative Perspectives

-  General Overview
-  *Outline task
-  *Commit to view
-  *Share Resources

Introduction to the activity

Add text here outlining the activity

Students give their opinion on the activity. Add an open-ended question here:

Provide students with up to 4 websites providing alternate and opposing points of view:

URL File IMS CP package

[Help?](#) [Need Help?](#)

Close

Select an open-ended question on the topic of your choice for general discussion. Ensure it is broad enough to encourage wide-ranging discussion and is not biased in any way.
Eg. "Is delivering your entire course online an educationally sound thing to do?"

LAMS Activity Planner: Filling out the key content for a selected template

Moodle Branching - Moodle Tools - LAMS 2 - LAMS Foundation Wiki - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://wiki.lamsfoundation.org/display/lams/Moodle+Branching++Moodle+Tools

http://172.20.100.16:8080 - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

BP Activities Toolkit

Moodle Forum Moodle Forum Tool

Chat Chat and Scribe Forum Forum & Scribe Gmap Moodle Forum Multiple Choice Notebook Noticeboard Q & A Resources&Forum Share Resources

Untitled - 1

Moodle Forum

Branching

modified 8 +1000

Properties - Branching Activity

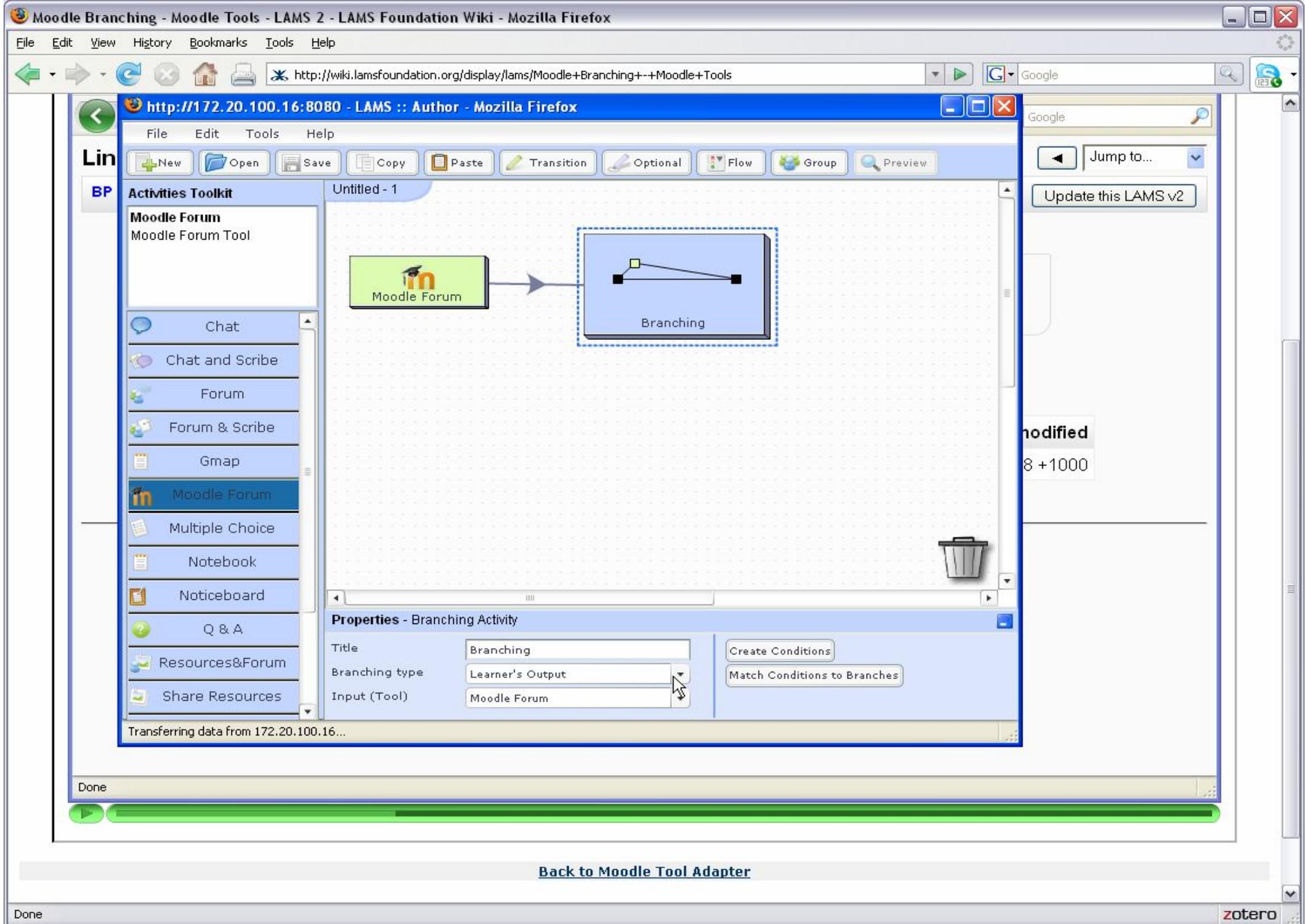
Title	Branching	Create Conditions
Branching type	Learner's Output	Match Conditions to Branches
Input (Tool)	Moodle Forum	

Transferring data from 172.20.100.16...

Done

Back to Moodle Tool Adapter

Done zotero



Moodle Forum Integrated with LAMS Authoring – including Branching Condition

New Visualisation Ideas

- One of the most important dimensions of LAMS is its visual authoring environment
 - The drag and drop approach to modelling activities has helped educators build engaging sequences of student activities
 - But even more important, it helps educators reflect on their pedagogical approaches to teaching and learning
 - For some educators, the experience of visualising Learning Designs appears to help make educational planning more explicit (rather than existing just below consciousness)
- So where did LAMS authoring come from?
 - “Creating Next Generation Interoperable Learning Tools”
Donna Gibbs and James Dalziel, MQ e-Academy, 19th July 2002!
<http://www.lamsinternational.com/CD/html/resources/presentations/MQ.e-cademy.ppt>

Learning Tool Editor

Question
Tool

Self-reflect
Tool

Ranking
Tool

Discussion
Tool

Content
Tool

Chat
Tool

Report
Tool

Marking
Tool

Other
Tool

Other
Tool

Learning Activity Sequence Builder

Question
Tool

Self-reflect
Tool

Ranking
Tool



New Visualisation Ideas

- I used drawings in Powerpoint to imagine a new type of e-learning system
 - I didn't know it couldn't be done, so I just drew what I wanted
- The “box and lines” diagrams have proved very useful for LAMS authors ever since
 - ... but what other visualisations might be useful?
- Every visualisation is a simplification of the total possible information that could be conveyed
 - Draws more attention to some aspects, less to others

New Visualisation Ideas

- In computer programming, there is an approach called “Unified Modelling Language” which use several different visualisations of how software works
 - Some people have even wanted to use UML for Learning Design, but I feel it is too complex for most educators, but the idea from UML of different visualisations is intriguing
- Can we imagine new kinds of Learning Design visualisations to complement the “box and lines” diagrams?
 - Each could draw attention to different aspects of a Learning Design
- NB: Very early, new ideas – seeking feedback and creativity (I may be the worst person to imagine new visualisations!)

New Visualisation Ideas

- Some possible new visualisations:
 - Key content view
 - Annotation view
 - Resizable boxes view
 - Alternative shapes view
 - Competencies view
 - Data flow view
 - Individualised Learners view
 - Time view
 - ??

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

- Chat
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- Q & A
- Resources&Forum
- Share Resources
- Spreadsheet

Qualities of an Effective Teacher

```
graph TD; Q[Q & A] --> V[Voting]; V --> C[Chat]; C --> S[Share resources]; S --> F[Forum]; F --> SF[Submit Files];
```

Properties

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Normal Authoring View

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

Qualities of an Effective Teacher

Annotation View Data Flow View Time View

```
graph TD; QnA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> Share[Share resources]; Share --> Forum[Forum]; Forum --> Submit[Submit Files]
```

Chat

Chat and Scribe

Data Collection

Dimdim

Forum

Forum & Scribe

Gmap

Multiple Choice

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Properties

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Suggested Tabs for Alternative View of Authored Sequences

Mozilla Firefox

File Edit View History Bookmarks Tools Help

file:///C:/Documents%20and%20Settings/James%20Dalziel/Desktop/Ped_plannerv2.htm

Google

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Activity Planner :: Teaching Style

Exploring Alternative Perspectives

- General Overview
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Introduction to the activity

Add text here outlining the activity

Students give their opinion on the activity. Add an open-ended question here:

Provide students with up to 4 websites providing alternate and opposing points of view:

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[Help?](#) [Need Help?](#)

Close

Select an open-ended question on the topic of your choice for general discussion. Ensure it is broad enough to encourage wide-ranging discussion and is not biased in any way.

Eg. "Is delivering your entire course online an educationally sound thing to do?"

LAMS Activity Planner as example of visualisation: Key content view

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

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Qualities of an Effective Teacher

```
graph TD; QA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> Share[Share resources]; Share --> Forum[Forum]; Forum --> Submit[Submit Files];
```

Properties

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Normal Authoring View

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Ice Breaking Activities (5 min)

Debate own ideas (10 min)

Read expert view (10 min)

Key Activity of Sequence: Students compare own views from first 3 activities to expert view in Resources (20 min+ or 1 week)

500 word essay for marking

Submit Files

zotero

Transferring data from lamsv2.lamsfoundation.org...

The screenshot shows the LAMS Author interface with a sequence of activities. The 'Activities Toolkit' on the left lists various activity types. The main workspace displays a sequence of four activity boxes: 'Chat', 'Share resources', 'Submit Files', and 'Submit Files'. Annotations are overlaid on the sequence: a green box at the top for 'Ice Breaking Activities (5 min)', a yellow callout for 'Debate own ideas (10 min)' pointing to the 'Chat' box, an orange callout for 'Read expert view (10 min)' pointing to the 'Share resources' box, a large brown box for 'Key Activity of Sequence: Students compare own views from first 3 activities to expert view in Resources (20 min+ or 1 week)' pointing to the 'Submit Files' box, and a green callout for '500 word essay for marking' pointing to the second 'Submit Files' box. The interface includes a menu bar, toolbar, and a status bar at the bottom.

Suggested Annotation View: Free form drawing and text overlays

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

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Qualities of an Effective Teacher

```
graph TD; QA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> Share[Share resources]; Share --> Forum[Forum]; Forum --> Submit[Submit Files];
```

Properties

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zotero

Normal Authoring View

http://lamsv2.lamsfoundation.org - LAMS :: Author - Mozilla Firefox

File Edit Tools Help

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Activities Toolkit

Q & A
Each learner answers question(s) and then sees answers from all learners collated on the next page.

- Chat
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```

Properties

Transferring data from lamsv2.lamsfoundation.org...

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Suggested Resizable Boxes View (could be combined with Annotations)

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Qualities of an Effective Teacher

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```

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```
graph LR; Noticeboard[Noticeboard] --> Resources[Resources + Forum]; Resources --> ShareResource((Share resource)); ShareResource --> MultipleChoice{Multiple Choice}; Grouping{{Grouping}} --> Chat[Chat]; Chat --> MultipleChoice;
```

Properties

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Alternative Shapes View (from old V1 mock-ups)

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File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

- Chat
- Chat and Scribe
- Data Collection
- Dimdim
- Forum
- Forum & Scribe
- Gmap
- Multiple Choice
- Notebook
- Noticeboard
- Q & A
- Resources&Forum
- Share Resources
- Spreadsheet

Qualities of an Effective Teacher

```
graph TD; QnA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> ShareResources[Share resources]; ShareResources --> Forum[Forum]; Forum --> SubmitFiles[Submit Files];
```

Properties

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Normal Authoring View

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Qualities of an Effective Teacher

Competencies
 (A) Critical Thinking
 (B) Teamwork
 (C) Domain Knowledge

```

graph TD
  QA[Q & A (A)] --> Voting[Voting (A)]
  Voting --> Chat[Chat (B)]
  Chat --> Share[Share resources (C)]
  Share --> Forum[Forum (A, B)]
  Forum --> Submit[Submit Files (A, C)]
  
```

Properties

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Competency Overlay

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Qualities of an Effective Teacher

```
graph TD; QA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> Share[Share resources]; Share --> Forum[Forum]; Forum --> Submit[Submit Files];
```

Properties

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Normal Authoring View

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Activities Toolkit

Qualities of an Effective Teacher

```
graph TD; QnA[Q & A] --> Voting[Voting]; Chat[Chat] --> Share[Share resources]; Forum[Forum] --> Submit[Submit Files]; QnA -.->|Answers| Voting; Chat -.->|Cond B| Share; Chat -.->|Cond A| Forum; Forum -.->|Grouping| Submit;
```

Chat

Chat and Scribe

Data Collection

Dimdim

Forum

Forum & Scribe

Gmap

Multiple Choice

Notebook

Noticeboard

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Spreadsheet

Properties

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Suggested Data Flow View (with imagined data, condition/branch & group flows)

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Activities Toolkit

Qualities of an Effective Teacher

```
graph TD; QnA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> ShareResources[Share resources]; ShareResources --> Forum[Forum]; Forum --> SubmitFiles[Submit Files];
```

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Normal Authoring View

Jason Bysouth					
● Q & A				● Hobby groups	
Sue Carter					
● Q & A				● Hobby groups	
Judith Coverdale					
● Q & A				● Hobby groups	
James Dalziel					
● Q & A				● Hobby groups	
Tim Danes					
● Q & A				● Hobby groups	
Julie Dawson					
● Q & A				● Hobby groups	
Jed Duff					
● Q & A				● Hobby groups	
Jane Messer					
● Q & A				● Hobby groups	

Suggested Individualised Learners View showing Individual, Group & Whole Class Tasks

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File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

Qualities of an Effective Teacher

```
graph TD; QnA[Q & A] --> Voting[Voting]; Voting --> Chat[Chat]; Chat --> ShareResources[Share resources]; ShareResources --> Forum[Forum]; Forum --> SubmitFiles[Submit Files];
```

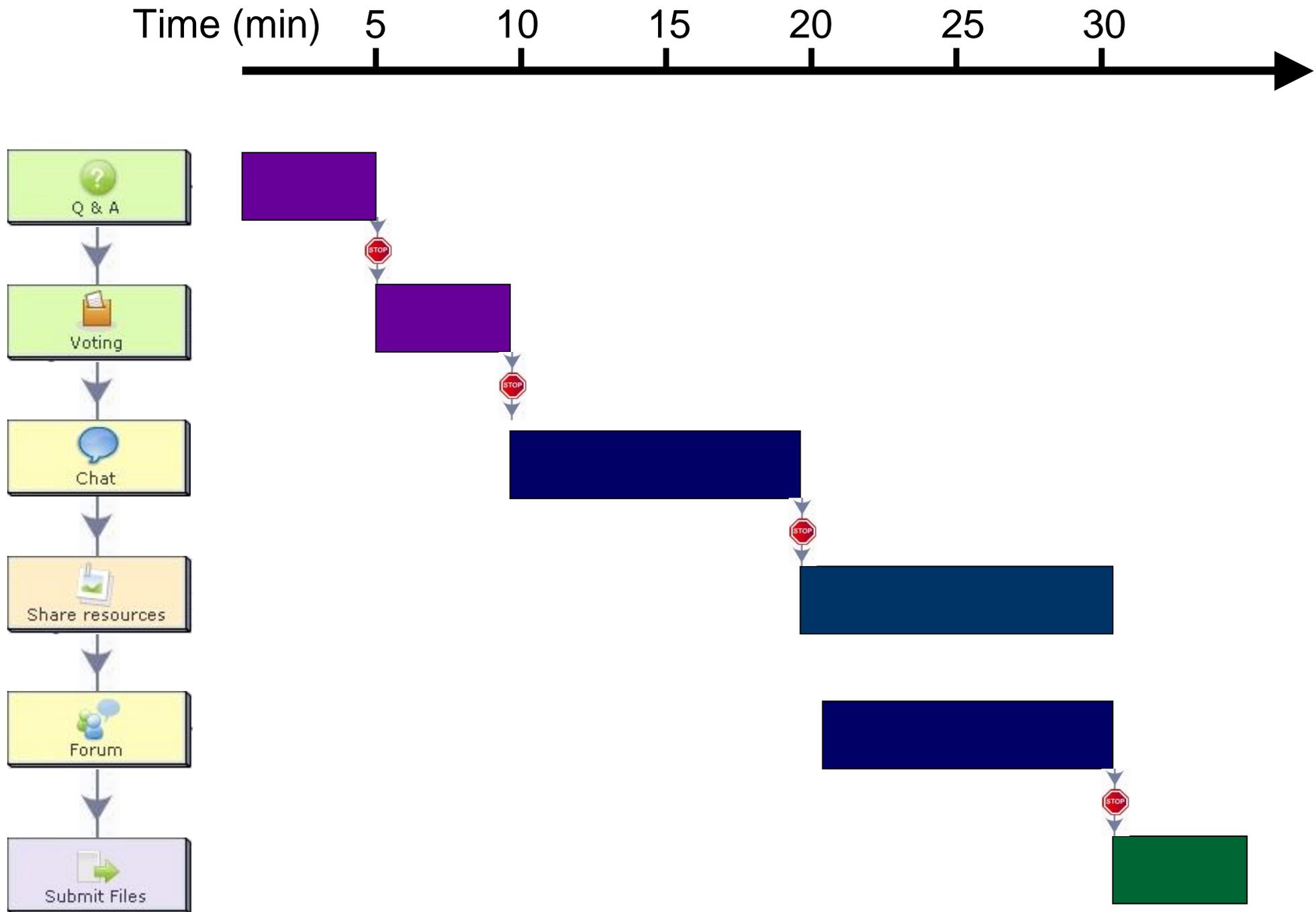
Chat
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Properties

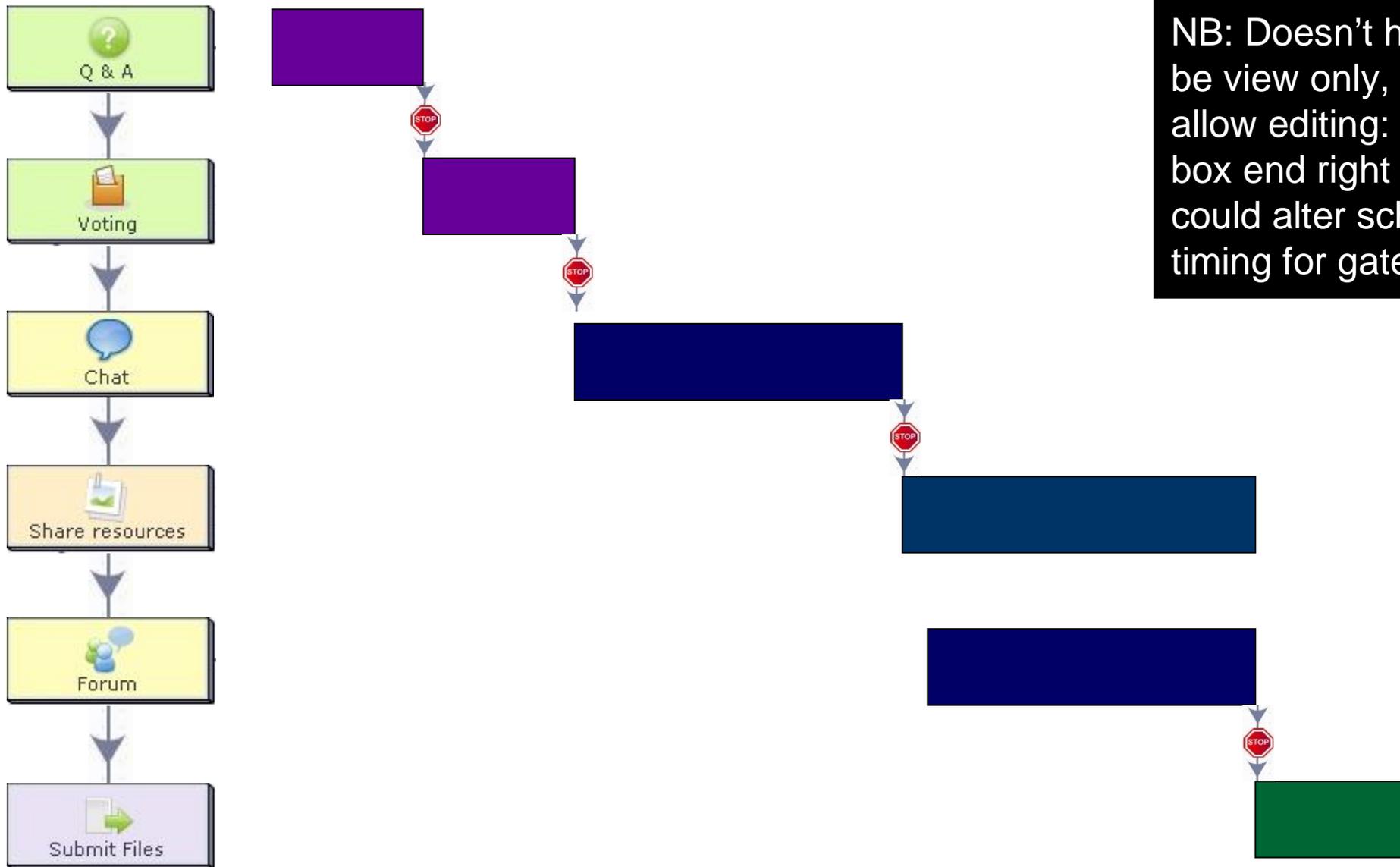
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Normal Authoring View



Time View (may only help for more synchronous sequences)



NB: Doesn't have to be view only, could allow editing: dragging box end right (or left) could alter scheduled timing for gates

Time View (may only help for more synchronous sequences)

New Visualisation Ideas

- Some possible new visualisations:
 - Key content view
 - Annotation view
 - Resizable boxes view
 - Alternative shapes view
 - Competencies view
 - Data flow view
 - Individualised Learners view
 - Time view
- Just some ideas to spur new thinking and creativity
 - Can you help develop ideas for useful new visualisations?
 - You don't need to be a programmer – just imaginative
 - ... and need I say... no promises (yet) on ideas shown today!