

Micro and Interactive Learning: Latest Tools and Techniques

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February 24, 2023



The Association of
Accountants and
Financial Professionals
in Business

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Agenda

1. Introduction
2. Background on Micro and Interactive Learning
3. H5P Activities (Demonstrations and Creation Options)
4. If Time Permits: Interactivity Add-in Options for Excel
(Otherwise, detail is available in the Appendix)
5. Conclusion



Background on Micro and Interactive Learning

Microlearning is a focused teaching technique.

The technique is defined by a focus on a single objective or topic during a very short time such as 10 minutes or less.⁴

While the technique can be an aspect of a pre-determined learning plan, a “bank” of topics and activities can also be available to respond, on-demand, to the needs of learners.

This strategy of *just-in-time learning* is prevalent in workplace learning and development.⁸

Microlearning has risen in popularity in recent years due to its expected benefits for learners.

The benefits of microlearning, per the literature, include:

1. Improved retention of content by learners (by reducing the cognitive load on working memory);
2. Enhanced motivation and/or engagement (due to the shorter time investment required by learners); and
3. Better fit with the information-seeking behaviors resulting from the prevalence of internet search engines and social media.^{2, 4, 8}



Microlearning, aka nano learning, is used for some continuing professional education (CPE) courses.

The ICMA and the NASBA CPE standards permit 10-minute increments, although state accountancy regulations may differ around acceptance.

Nano CPE courses, per standards, are:

1. Delivered electronically without a live instructor (cannot be paper-based);
2. Individual, not group, learning options;
3. Focused on a single objective;
4. Not a substitute for comprehensive programs around complex issues; and
5. Validated by a two-question assessment that requires a score of 100% to pass.

One of the free CPE courses for IMA members.

IMA Excel 365: Tips in Ten

15+ Nano-courses
(10 minutes each)
demonstrating new
features in Excel 365.



Program led by Bill Jelen, known as Mr. Excel.

Interactive learning is about learner engagement.

Interactive learning is not just about working hands-on with content.

The concept has three aspects:

1. Learner-to-instructor;
2. Learner-to-learner; and
3. Learner-to-content.⁵



Effective design for microlearning considers the format and means of delivery as well as content.

Microlearning can be applied in the classroom and online.

In technology-based settings, the format and delivery of content via computer and/or smartphone benefits from software and templates created with such mediums in mind.³

Relevant software enables no-code design for instructors, leaving more time to focus on and develop the content.

Poll Question 1:

Which option best describes your current understanding and usage of microlearning?

- a) I am not familiar with the concept or its usage.
- b) I have limited knowledge of the concept and/or how to apply it when developing learning activities.
- c) I have basic knowledge of the concept and how to apply it when developing learning activities.
- d) I have sufficient knowledge of the concept and I regularly apply it when developing learning activities.

Poll Question 1 Results: (Placeholder)

H5P Activities and Software Tools

What is H5P?

H5P, short for HTML-5-Package, is open-source software that helps create interactive learning activities.

H5P is over 10 years old; integrations with LMS providers are more recent.

H5P also runs on some web platforms and there are paid consultants that can assist with technology support.

It also available with Pressbooks.

H5P Integrations

Source: H5P.org; MIT open licensing



Blackboard

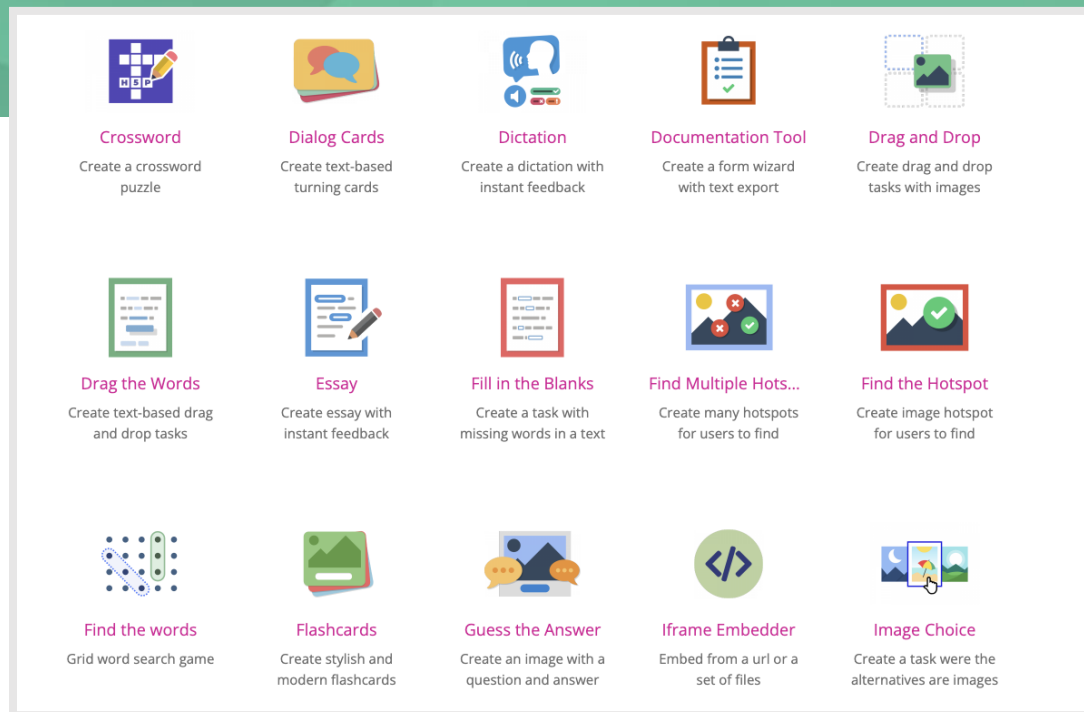


Today's presentation covers 3 no cost methods for creating, using, and sharing H5P activities.

H5P Option 1: H5P.org and Embedded Links

Multiple formats to make content interactive such as:

- Accordion
- Drag and Drop
- Drag the words
- Flashcards
- Image Hotspots
- Multiple Choice
- Presentation



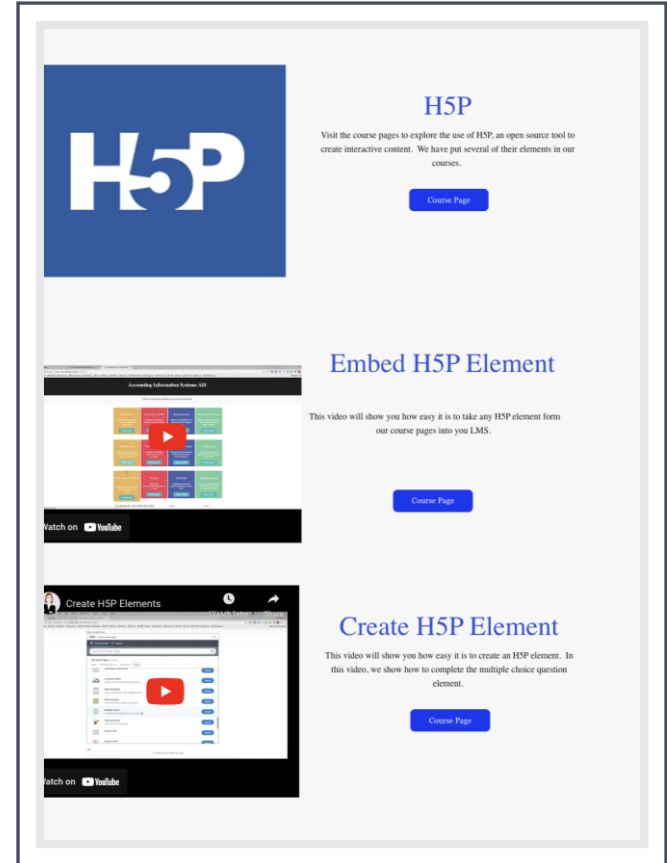
<https://h5p.org/>

Embed H5P Elements

You can provide to your audience the ability to embed your H5P elements.

We share all our elements via:

- www.AccountingTeachingTools.com
- www.drvpaz.com



Live Demo


Audit Evidence

Auditing

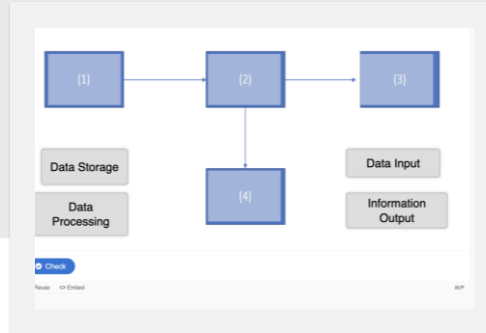
Module : Audit Evidence

This module covers Chapters 4 in the textbook. The issues discussed in this module include the relationship between audit risk, audit evidence, and financial statement assertions. This module also describes the purpose of audit documentation and explains and identifies components of audit risk.

Along with the discussion about audit risk, we will cover two other types of risks—fraud risk and inherent risk. Most companies bear some level of one or both of these types of risks, and the audit program will reflect examinations to that regard. However, if the audit team determines these types of risks are significant enough for the particular client, it should alter the scope planning for the audit to include a concentrated level of testing and documentation for the areas of concern.



1 / 24



Unqualified Opinion

Report of Independent Registered Public Accounting Firm

The Board of Directors and Shareholders of McDonald's Corporation

We have audited the accompanying consolidated balance sheets of McDonald's Corporation as of December 31, 2015 and 2014, and the related consolidated statements of income, shareholders' equity, and cash flows for each of the three years in the period ended December 31, 2015. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of McDonald's Corporation at December 31, 2015 and 2014, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2015, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), McDonald's Corporation's internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 26, 2016 expressed an unqualified opinion thereon.

Ernst & Young LLP (signature)

Let's show you the elements we created and that are accessible via Creative Commons License on:

www.drvpaz.com

Poll Question 2:

Which option best describes your use of grade points or other incentives to encourage completion of independent, formative learning activities?

- a) I do not use incentives for independent, formative learning activities.
- b) I use minimal incentives (less than 20% of grade).
- c) I use moderate incentives (20 - 40% of grade).
- d) I use significant incentives (greater than 40% of grade); assessments such as exams are balanced or have lower weightings in my course grades.
- e) My use of incentives varies by factors such as content or level; for example, introductory vs. advanced courses or undergraduate vs. graduate level.

Poll Question 2 Results: (Placeholder)

H5P Option 2: LMS-Provided Tools

Content bank

Dashboard / My Courses / Gao Training Sandbox / Content bank



Content bank

interactive-video-126.h5p

0

02/19/23, 21:24

3.2MB

Add ▾

Upload



H5P interactive content

Accordion

Advent Calendar (beta)

Agamotto

appear.in for Chat and Talk

Content bank

Xiang Gao

Example of H5P on Moodle

Create H5P on Moodle

Course Presentation

Drag and Drop

Drag the Words

Flashcards

Guess the answer

Interactive book

Interactive video

Multiple Choice

Question Set

Questionnaire

Summary

Timeline

True/False Question

Virtual Tour

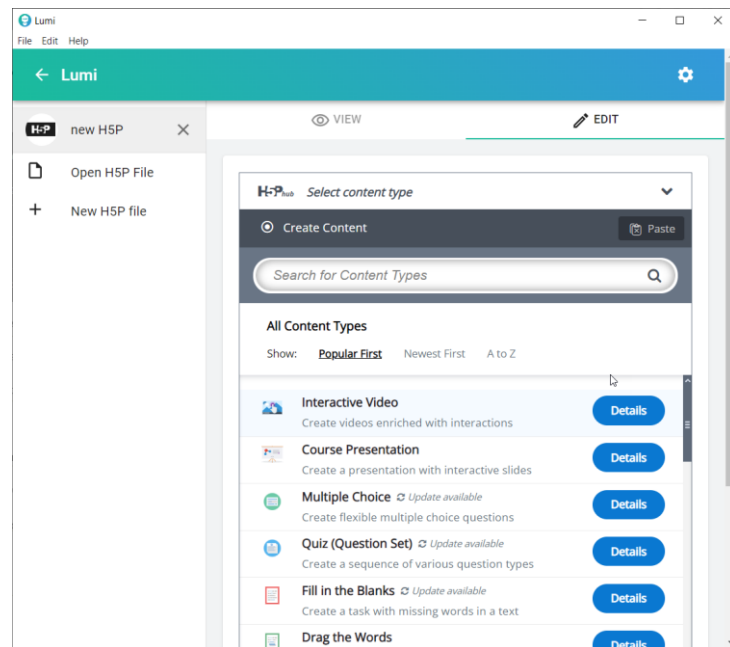
The screenshot shows the H5P Interactive Video creation interface. At the top, there are 'Save' and 'Cancel' buttons. Below them are tabs for 'Tutorial' and 'Example'. On the right, there are 'Copy' and 'Paste & Replace' buttons. The main heading is 'Interactive Video'. Below this, there is a 'Title' field with a 'Metadata' button and a 'Tour' icon. A description states: 'Used for searching, reports and copyright information'. Below the title field is a large empty text area. The interface is divided into three steps: 'Step 1: Upload/embed video', 'Step 2: Add interactions', and 'Step 3: Summary task'. The 'Add a video' section under Step 1 provides instructions on how to add a video link or upload video files, noting that several versions of the video with different qualities should be added for maximum browser support. Below the instructions is a dashed box with a plus sign. At the bottom, there are two expandable sections: 'Interactive Video' and 'Text tracks (unsupported for YouTube videos)'. A 'Next Step' button is visible at the bottom right.

H5P Option 3: Lumi Educational Software

There is a no-cost software option for creating, editing, and saving H5P files outside of an LMS (and not online at H5P.org).

The vendor is Lumi (specifically the company's education division) and there are desktop and online software options. ***(Links in Appendix)***

Today's demonstration is the desktop version.



Before the example of working with an H5P file in Lumi software, will demonstrate several types of activities used for recent accounting courses (via Moodle).

All examples are available in Zip file for attendees or other faculty requesters.

The screenshot displays a Moodle course page with a list of H5P activities. Each activity is represented by a blue square icon with a white 'H-P' logo, followed by the activity title and two buttons: 'View' and 'Receive a grade' (where applicable). A mouse cursor is hovering over the 'Income Statement' activity. A pop-up window on the right side of the page shows a detailed view of the 'Excel Spreadsheet Overview' activity, which includes a 'View' button. Below it, the 'Excel Spreadsheet Quiz' activity is shown with 'View' and 'Receive a grade' buttons. At the bottom of the pop-up, the 'Excel Cell Basics' activity is listed with 'View' and 'Receive a grade' buttons.

Activity Title	Buttons
Accounting Cycle	View, Receive a grade
Regulatory Agencies	View
Long-Term Assets	View
Income Statement	View
Income Statement Quiz	View, Receive a grade
Find the Values to Calculate Liquidity Metrics	View

Activity Title	Buttons
Excel Spreadsheet Overview	View
Excel Spreadsheet Quiz	View, Receive a grade
Excel Cell Basics	View, Receive a grade

The zip file for attendees includes an H5P activity type summary (in Excel) with links to other examples.

The screenshot below shows the Excel summary file layout with a listing of the current H5P activity names, a brief description (from the H5P.org website), and any accounting-specific examples provided by today's presenters plus points tracking experience in Moodle. The final column includes links to the other free examples available on the H5P.org website that can be downloaded and used as a starting example (although no examples are accounting-specific).

H5P Content Name	Description	Accounting Examples Provided	Points Tracking	H5P.org Examples
Advent Calendar (beta)	Create an advent calendar	n/a		Advent Calendar (beta)
Agamotto	Create a sequence of images that gradually change	Excel Spreadsheet Overview	No (Moodle)	Agamotto

Poll Question 3:

Which option best describes your familiarity with H5P activities and software tools?

- a) I am not familiar with H5P activities or software development tools.
- b) I have seen or completed an H5P activity but have not used any for teaching and have never developed any.
- c) I have used H5P activities for teaching but did not develop them myself using software tools.
- d) I have used H5P activities for teaching and have developed, or modified, them using software tools.

Poll Question 3 Results: (Placeholder)

Since H5P is relatively new, limited research exists related to effective academic applications.

A search on Google Scholar yields some research studies. However, most are very recent and research in accounting-specific contexts is almost non-existent.

Therefore, the next few slides reflect some learnings or watchouts from our presentation team that have been picked up as we created H5P activities or used them in a course.

There may be LMS-related quirks to be aware of when adding H5P activities to a learning plan.

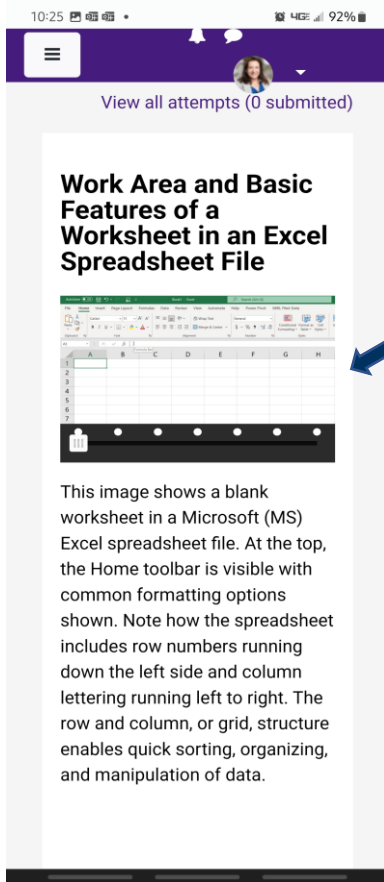
As previously mentioned, not all H5P activities actually track and post points even though the LMS set-up options offer this capability (e.g., Moodle).

There also may not be open and close dates at the activity level (e.g., Moodle). Workarounds may be available such as entering zero grades for an activity after the desired close date for students who did not complete the activity.

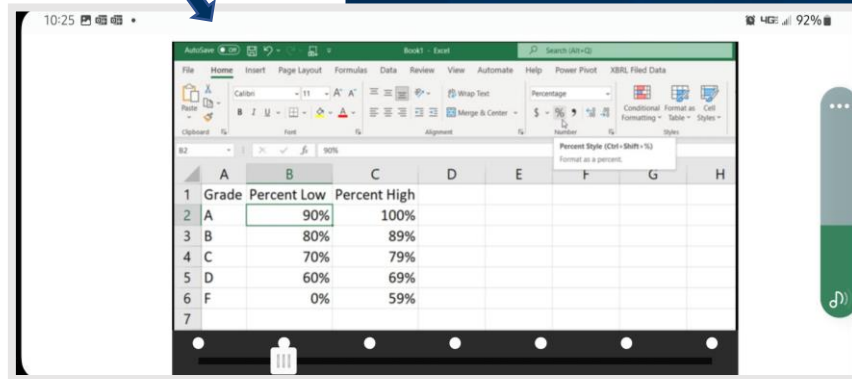
Like most activities in an LMS, H5P usage patterns can be tracked for future adjustments.

Stats from an introductory financial accounting course (Fall 2022, face-to-face, 15-week course with H5P activities available in LMS for some but not all weeks).

- 90% of students accessed each H5P activity between 1 and 3 times.
 - 46%, on average, accessed only 1 time; range for 1 time was 27% to 68%.
- 10% of students accessed each H5P activity from 4 to 7 times.
 - Only 3% of students were at the high-end with 6-7 times per activity.

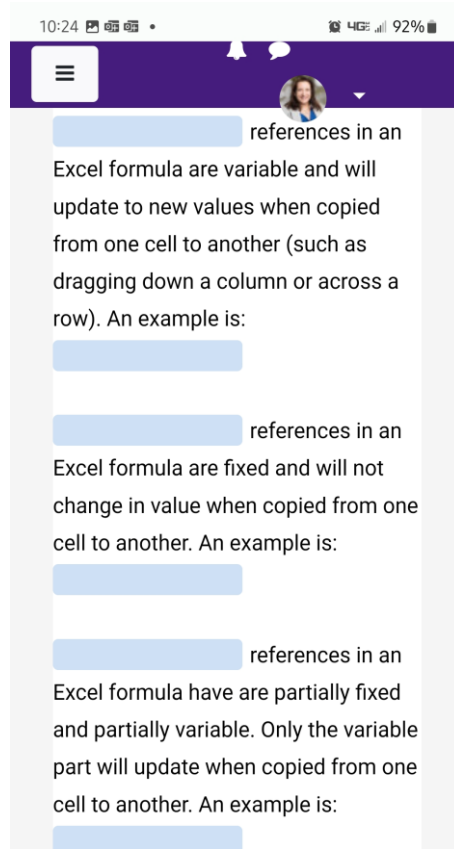
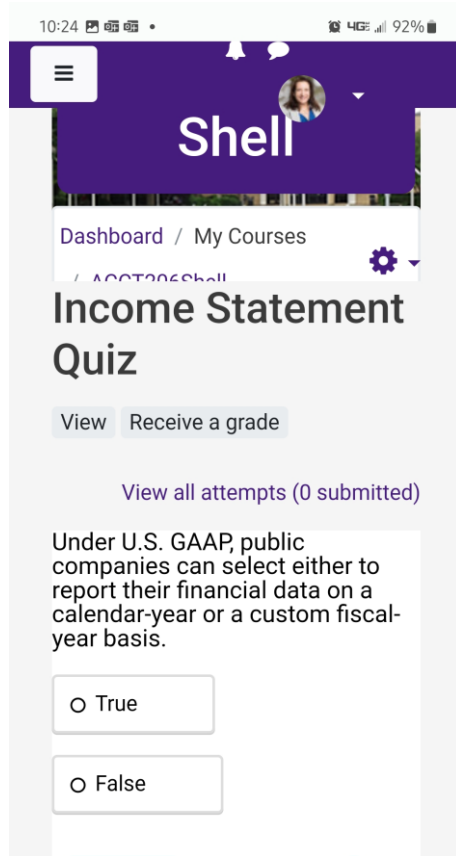


In this example, the Excel table is very small in portrait layout but visible in landscape view.



Ease of smartphone usage varies by H5P activity.

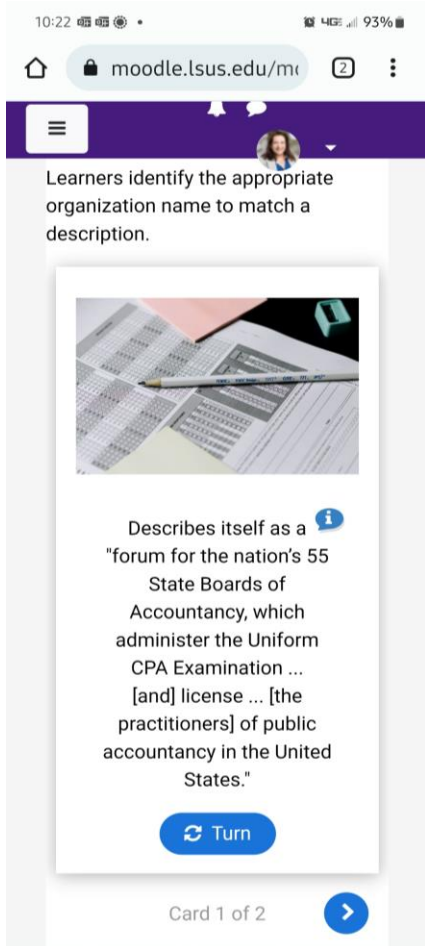
Suggest that H5P creators test all items via smartphone if it is a concern that many students will lack desktop or laptop access.



Ease of use for activities such as quizzes varies by question length.

At left is a simple true/false question. It is fully viewable on a smartphone screen.

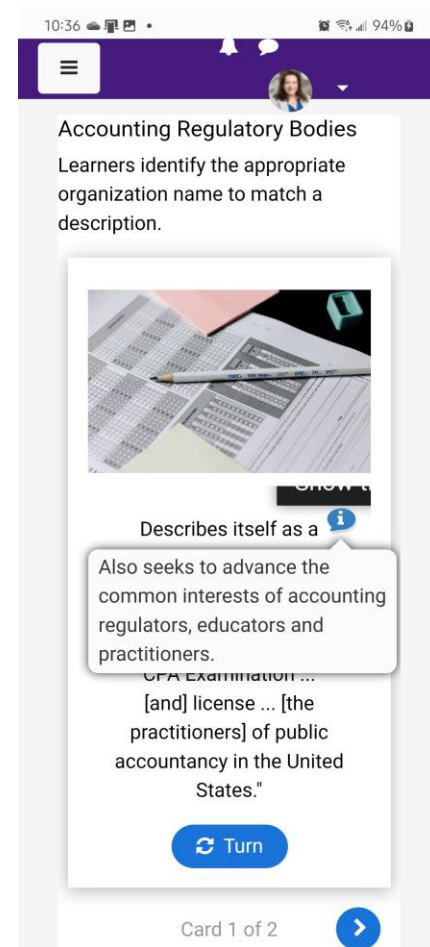
At right is a drag-and-drop type question with multiple parts. Scrolling is required to see the full questions and the responses to select and drag.



Activities such as
flashcards work well on a
smartphone screen.

The text descriptions, action
buttons, and images/icons
are easily viewable.

On the right, the screen shot
shows the pop-up box with
additional information.



Poll Question 4:

Which option best describes your comfort level and expectations for using H5P activities and/or software tools at the end of this session?

- a) I will not use H5P activities; they are not a match to my teaching needs.
- b) I would like to use H5P activities, but I am not comfortable creating or modifying them with software tools.
- c) I will probably use H5P activities, and I am comfortable creating or modifying them with software.
- d) I will definitely use H5P activities, and I am comfortable creating or modifying them with software.

Poll Question 4 Results: (Placeholder)

Conclusion

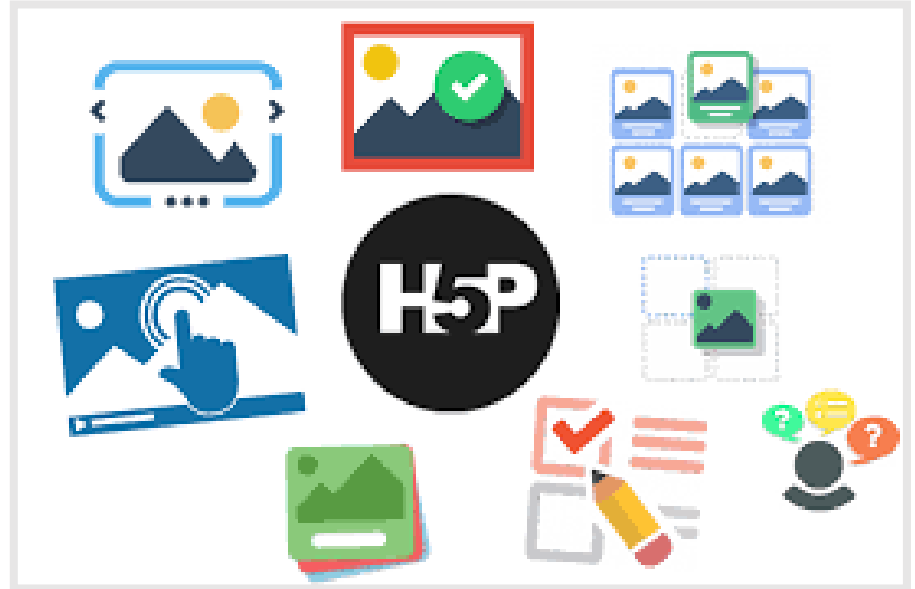
Learning Objectives Revisited

1. Identify tools and techniques for micro and interactive learning.
2. Recognize appropriate accounting topics and tools for use with micro and interactive learning techniques.
3. Understand and differentiate the features of H5P activities to match available options with targeted learning outcomes.
4. Create new or modify existing online learning activities using H5P software and/or LMS tools.

Takeaways (Plus Links and More in Appendix)

- Interactive tools to make lectures and learning more engaging
- The sky's the limit
- Release your creativity
- Multiple ways to integrate
 - Stand alone
 - In LMS
 - Via another website

Let's get practicing!



“ I see no reason why there still are large lectures in universities throughout the world.

When people gather, they should be interactive, problem-solving, and experimenting; not passively listening. ”

Sal Khan

Educator and Founder of Khan Academy

Questions and Answers

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Thank you!



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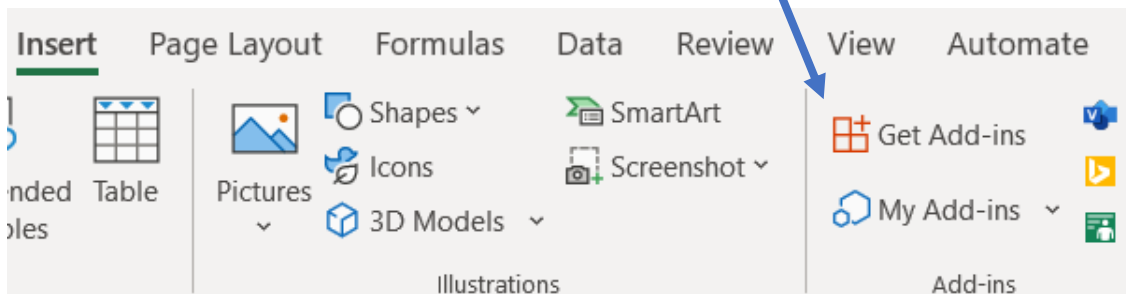
APPENDIX

Reference list plus vendor information and links to access the software and other resources covered during the presentation.

Interactivity with Excel (Add-In Options)

Excel Add-in: XLAudit Central (by [CIMCON Software LLC](#))

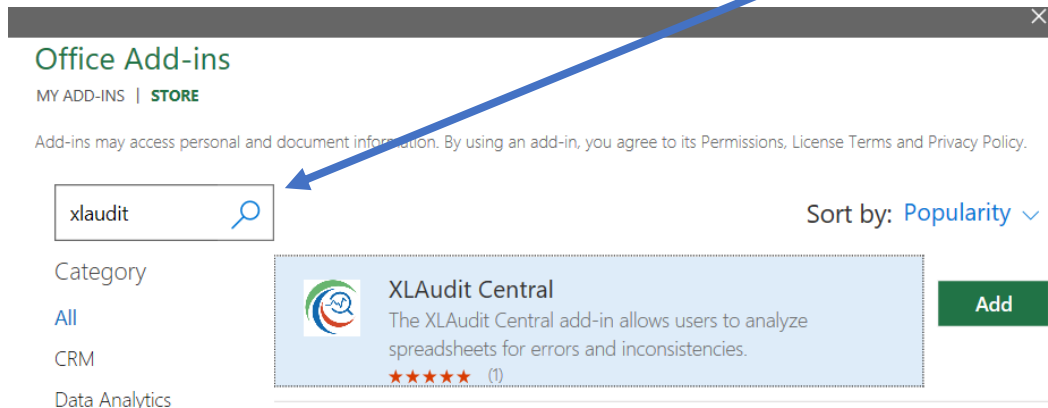
Add from [Microsoft AppSource](#) or the **Get Add-ins** option on Excel's Insert menu



When the Office Add-ins box pops up, search by name

XLAudit Central - Free Features

- Analysis of formulas and cells, structure, macros/VBA, as well as inputs, outputs, and calculations
- Visually compare two spreadsheets



Excel Spreadsheet Audit

Help students audit their own work

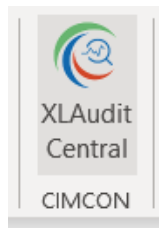
XLAudit Central


When enabled, is found at far-right on the Home menu.

Open an Excel file,
then click the XLAudit
Central option to:

- 1) Choose reports,
- 2) Provide a return email address, and
- 3) Supply password(s), if necessary, then
- 4) Submit online.

Get back reports
(often in minutes).





Hello,

You submitted a spreadsheet for analysis on XLAudit Central.

Submit Date:	01/19/2023 19:27:46 PM
File:	Solution CVP Analysis - Jakes Pet Supply.xlsx
Report Type:	Workbook Analysis, Highlight Formula Consistency

Please [click here](#) to download your reports. The link will remain available for 4 business day(s).
If you want to delete it immediately, [click here](#).

Thank you for using CIMCON Software's XLAudit Central.

XLAudit Central


The XLAudit Central add-in allows users to analyze spreadsheets for errors and inconsistencies.

Step 1: Choose Reports

- ☒ Workbook Analysis
- ☒ Highlight Formula Consistency

Step 2: Email Address


Your report will be emailed to you at this address.

 rebecca.bogie@lsus.edu

Step 3: Password Management

Click [here](#) to enter any passwords for this spreadsheet.

Step 4: Submit for Analysis



CIMCON Software, LLC [About XLAudit](#)

XLAudit Central

Analyzed On:	
01/19/2023 19:27:54 PM	
Analyzed By:	
rbogie@outlook.com	
False Positive Filter:	
Off	

Author	Karen Braun
Create Date	3/12/2016 5:41:20 PM
Last Modified	1/19/2023 7:27:53 PM
Last Modified By	Rebecca Bogie
Workbook Protection	None

Analyzed Sheet	Password Protected	Visibility
Business & Directions	No	Visible
Original Assumptions	No	Visible
Supplier Cost Increase	No	Visible
New Sales Mix	No	Visible
Alternative Contract	No	Visible
Advising client	No	Visible
Grading Rubric	No	Visible

Reports returned include:

- Summary of file and author info.
- Overview of various aspects of cells, formulas, sheets, visibility, etc.
- Detail sheet for each aspect to review for errors and make notes.

Formulas with Absolute Cell References

Sheet Name	Cell Address	Formula	Value	Add User Notes Here
Original Assumptions	F6	=C\$26/F3	250.00	
Original Assumptions	F10	=SUM(C\$26,C\$28)/F3	1,583.33	
Original Assumptions	F18	=C\$26/F15	125.00	

Description	Count
Cells with External Links	<u>0</u>
Formula Cells	<u>283</u>
Formulas with Absolute Cell	<u>66</u>
Distinct Formulas	<u>168</u>
Nested If Formulas	<u>0</u>
Unique Formulas	<u>117</u>
Complex Formulas	<u>0</u>
Cell Validations	<u>0</u>
Numbers stored as Text	<u>0</u>
Unlocked Cells (Formula)	<u>0</u>
Blank Cell References	<u>2</u>
Blank Cells Referenced in Formulas	<u>44</u>
Formula Errors	<u>0</u>
Formulas Omitting Adjacent Cells	<u>0</u>
Formulas with Circular or Volatile	<u>0</u>
Formulas with Constants	<u>22</u>
Hidden Rows	<u>0</u>
Hidden Columns	<u>0</u>
Hidden Sheets	<u>0</u>
Overlaid Shapes Lookout	<u>0</u>
Protection	<u>0</u>
Query Cells	<u>0</u>
Range Names	<u>0</u>

XLAudit Central

	<u>Product #1</u>	<u>Product #2</u>	<u>Total</u>
Revenue	\$ 2,000.00	\$ 3,000.00	\$ 5,000.00
Variable Costs	\$ 800.00	\$ 1,800.00	\$ 2,600.00
Contribution Margin	\$ 1,200.00	\$ 1,200.00	\$ 2,400.00
Fixed Costs			\$ 1,500.00
Operating Income			\$ 900.00
WACM %	60%	40%	48%

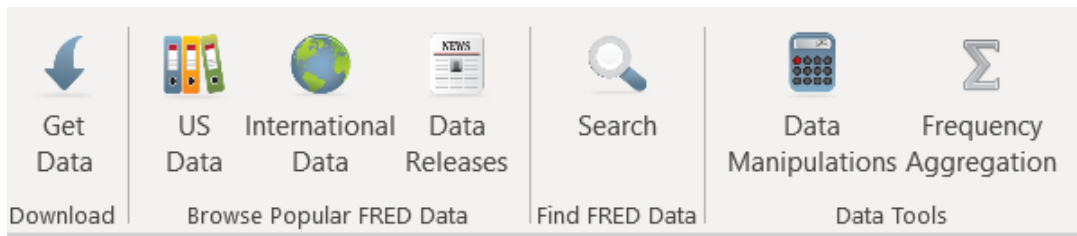
Returned file has color-coding for formula consistency checks.

This screen clipping is from the original file submitted.

The returned version uses multiple colors to indicate (or not) formula consistency.

	<u>Product #1</u>	<u>Product #2</u>	<u>Total</u>
Revenue	\$ 2,000.00	\$ 3,000.00	\$ 5,000.00
Variable Costs	\$ 800.00	\$ 1,800.00	\$ 2,600.00
Contribution Margin	\$ 1,200.00	\$ 1,200.00	\$ 2,400.00
Fixed Costs			\$ 1,500.00
Operating Income			\$ 900.00
WACM %	60%	40%	48%

U.S. and Global Macroeconomic Data via FRED



FRED is an add-in created by the Federal Reserve Bank of St. Louis. When enabled, a FRED menu appears with the options above.

The available macroeconomic data comes from multiple sources such as the U.S. Bureau of Economic Analysis, the Bureau of Labor Statistics, and the Census as well the OECD internationally.

Time series data can be pulled into Excel, and there are options to automatically calculate growth rates and/or change the data frequency. Spreadsheets can be refreshed with up-to-date data.

Browse Popular US Data



National Income and Expenditures



Population, Employment, and Labor Markets



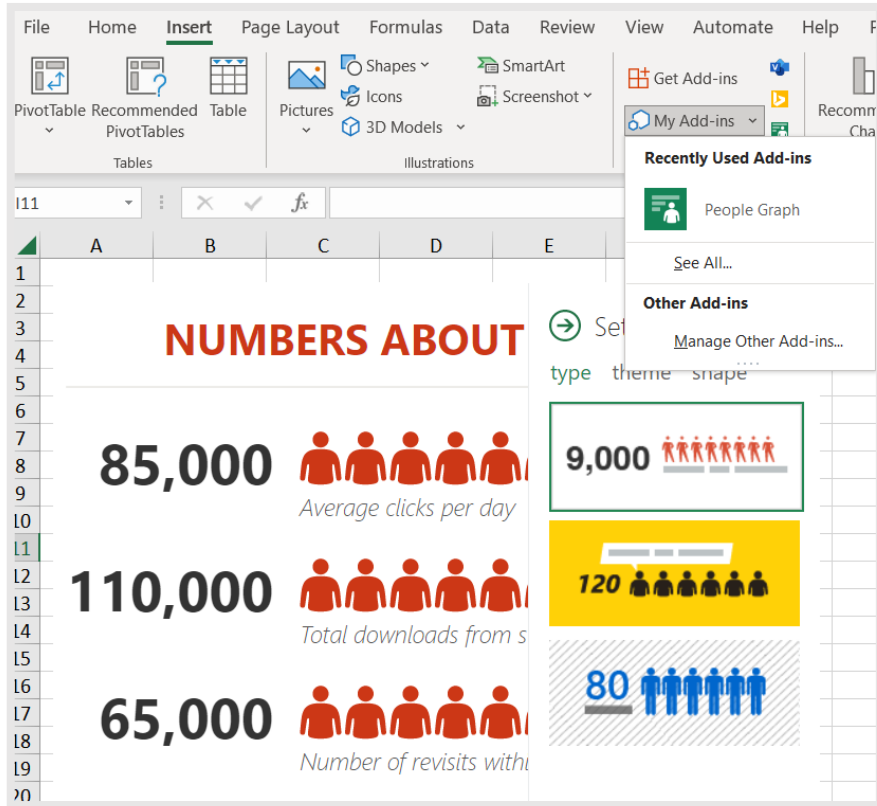
Production and Business Activity



Prices



Money, Banking, and Finance



Multiple data visual add-in options are available.

The option pictured here is called People Graph. This add-in offers the people-type icons shown.

These people icons can be used, for example, as an alternative to a bar chart to show magnitude, frequency, or comparisons.



Some Excel add-ins are just handy or are time-savers.

QR4Office

Enter the URL/text you'd like to encode:



Options

Color:  Background: 

Size: 

Error correction:

Preview







Full size: 75 x 75 px
<http://bing.com>



Multiple QR
code generators
are available.

QR4Office,
operates in all
MS Office
programs (Word,
PowerPoint, etc.).

< > February 2023

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4
5	6	7	8			
						

This add-in is:
Mini Calendar
and Date Picker.

It is used to
select and insert
dates or the
current time into
a spreadsheet.

References

1. American Institute of Certified Public Accountants, & National Association of State Boards of Accountancy. (2019, December). *The statement on standards for continuing professional education (CPE) programs*.
https://cdn.asp.events/CLIENT_NASBA_287596D2_5056_B733_49DFF69B632BDF66/sites/LearningMarket/media/Documents/2019-standards-and-fos/Statement on Standards for CPE Programs---December-2019.pdf
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H5P Software Options and General Resources

LMS Independent Creation Software

Lumi -- download desktop (Windows, Mac, Linux) version or use cloud version: <https://app.lumi.education/>

H5P.org – free online account with limited storage: <https://h5p.org/user/register?destination=welcome-to-the-h5p-community>

H5P General Resources and Help

Information for authors and administrators: <https://help.h5p.com/hc/en-us>

Documentation such as Content author guide: <https://h5p.org/documentation>

General examples for download: <https://h5p.org/content-types-and-applications>

H5P Group (tool creator; originally named Joubel): <https://h5p.group/inner.html>

H5P Website Resources

Wordpress Interactive Content plug-in: <https://wordpress.org/plugins/h5p/>

Wordpress myCred for H5P (points and badges for completion): <https://wordpress.org/plugins/mycred-h5p/>

Learning Management System H5P Resources

Moodle

H5P Activity: https://docs.moodle.org/401/en/H5P_activity

H5P Managing Content: <https://docs.moodle.org/401/en/H5P>

H5P FAQ: https://docs.moodle.org/401/en/H5P_FAQ

Mobile devices: <https://moodle.com/news/moodle-brings-interactive-h5p-content-to-your-mobile-devices/>

Administrator Tutorials: <https://help.h5p.com/hc/en-us/articles/7505789964701-Setting-up-H5P-com-in-Moodle-LTI-1-1->

Blackboard

H5P as Embedded Media: <https://help.blackboard.com/zh-hans/node/34251>

H5P (scroll down to *Insert media in the editor* section):

https://help.blackboard.com/Learn/Instructor/Ultra/Course_Content/Create_Content/Create_Course_Materials/Add_Files/Images/Audio_and_Video

H5P guides developed by multiple institutions – simple browser search for: Blackboard H5P

Administrator Tutorials: <https://help.h5p.com/hc/en-us/articles/7505840839325-Setting-up-H5P-com-in-Blackboard-LTI-1-1->

Learning Management System H5P Resources

Canvas

Instructure Community discussion and links about H5P: <https://community.canvaslms.com/t5/Canvas-Instructional-Designer/H5P-Free-Interactive-Content-Creation-with-HTML5/td-p/275111>

H5P alternative way to add to Canvas: <https://h5p.org/node/284491>

H5P guides developed by multiple institutions – simple browser search for: Canvas H5P

Administrator Tutorials: <https://help.h5p.com/hc/en-us/articles/7507920890653-Setting-up-H5P-com-in-Canvas-LTI-1-1->

Brightspace

Community discussion about H5P: <https://community.brightspace.com/s/article/Using-H5P-with-Brightspace>

H5P guides developed by multiple institutions – simple browser search for: Brightspace H5P

Administrator Tutorials: <https://help.h5p.com/hc/en-us/articles/7506356356893-Setting-up-H5P-com-in-Brightspace-LTI-1-1->