



Producing Software Application
Simulations with
ToolBook

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Producing Software Application Simulations with ToolBook

Last updated: August, 2011

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Using ToolBook to Create Application Simulations

This tutorial shows you how to use ToolBook to create a software application simulation deployed to the web as HTML content. For additional information, please refer to ToolBook's online help system, printed end user documentation, or contact SumTotal Systems.

Installing ToolBook

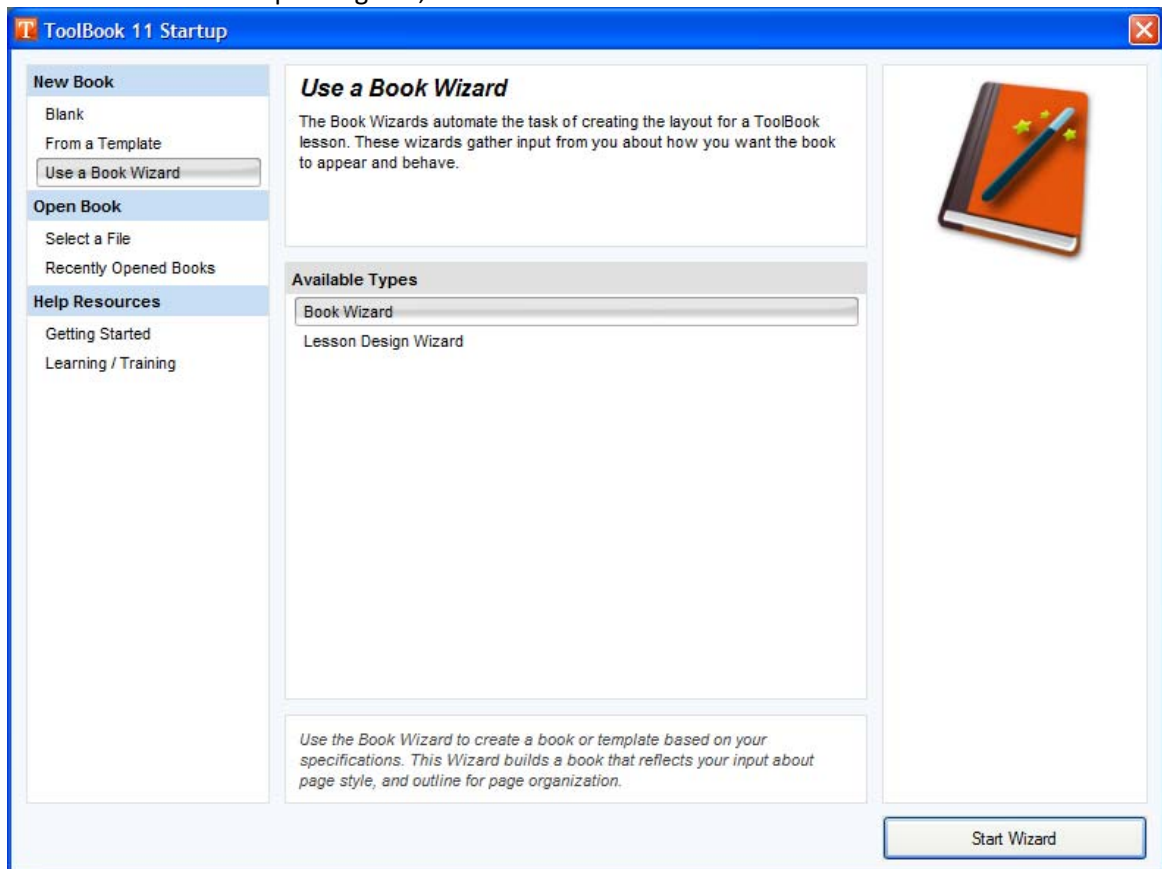
Use the installation instructions provided to you in the initial email from SumTotal Systems.

Creating a New ToolBook Book

With ToolBook, you build a learning application by starting a book and adding content such as text, graphics, assessments, software application simulations, and interactive objects. One way to start a new book is to use the Book Wizard, which supplies a graphical theme and other objects for the book based on choices you make in the wizard.

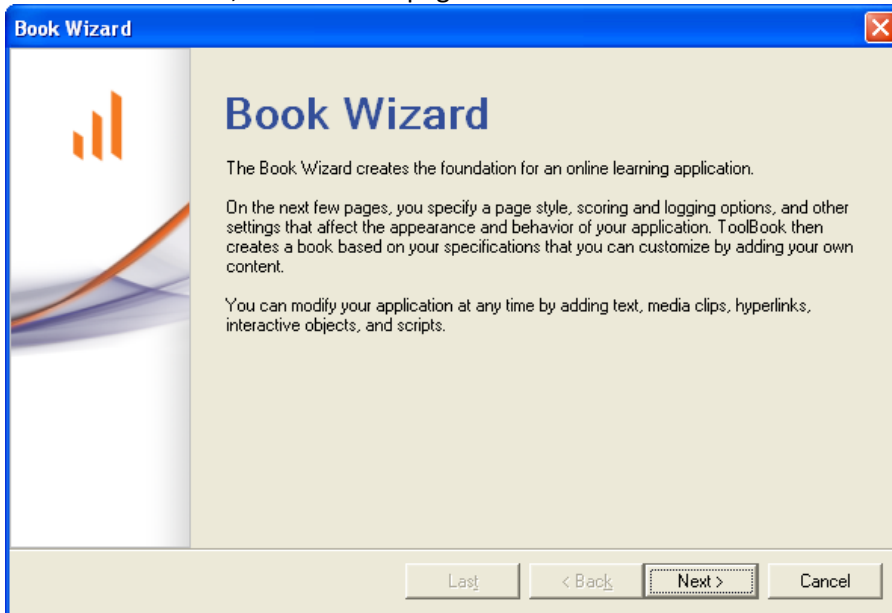
► To start a new book:

1. Open ToolBook. From the Start menu, point to Programs, ToolBook 11, and then click ToolBook 11.
2. In the ToolBook Startup dialog box, click **Use A Book Wizard**.

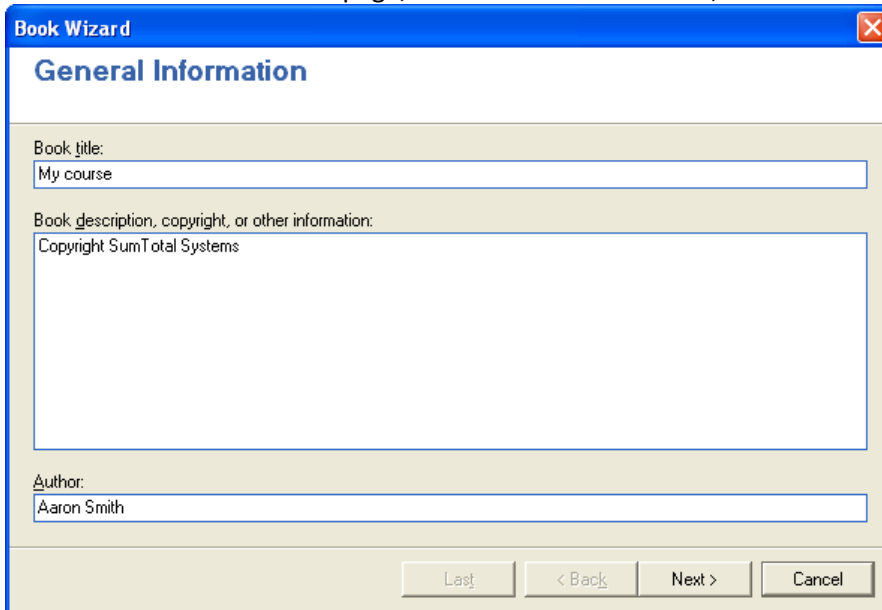


3. Choose **Book Wizard** from the Available Types, and click Start Wizard.

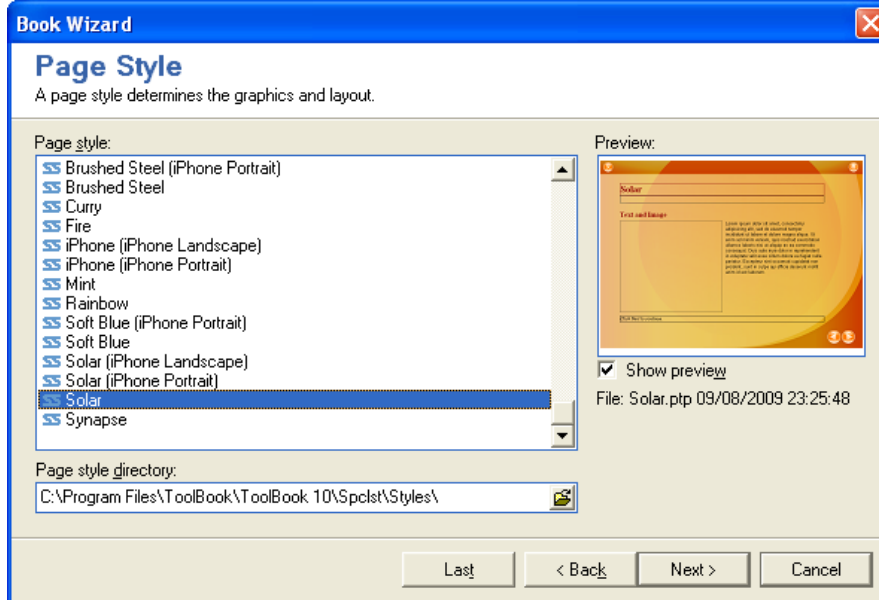
4. In the Book Wizard, read the first page and then click the Next button.



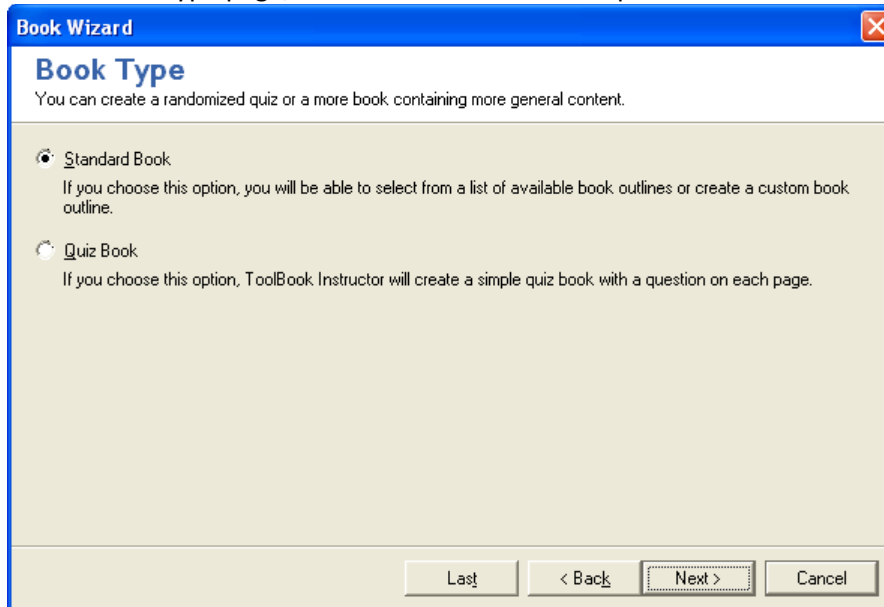
5. On the General Information page, enter a title for this book, and then click the Next button.



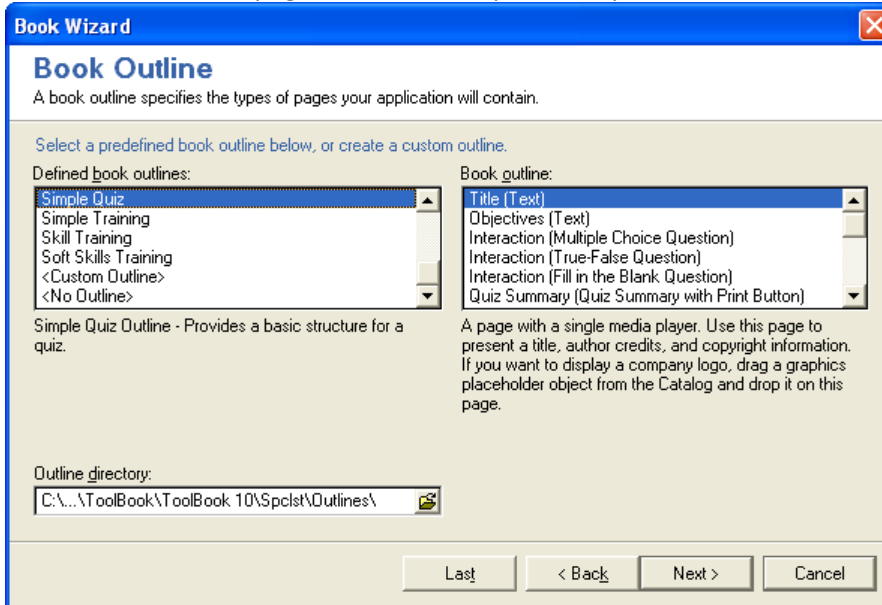
- On the Page Style page, select Solar in the Page style box. Click the Show preview checkbox to see a thumbnail image of the style.



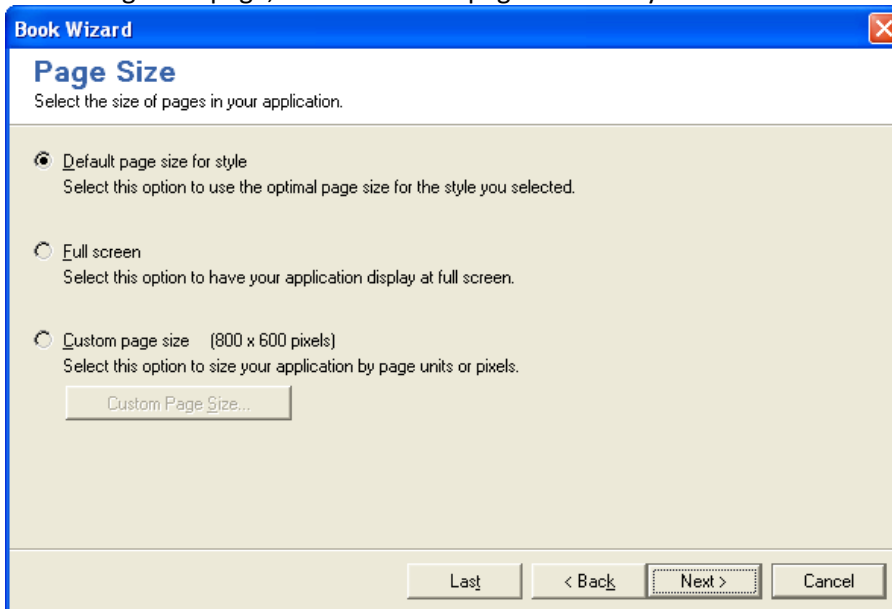
- On the Book Type page, select the Standard Book option.



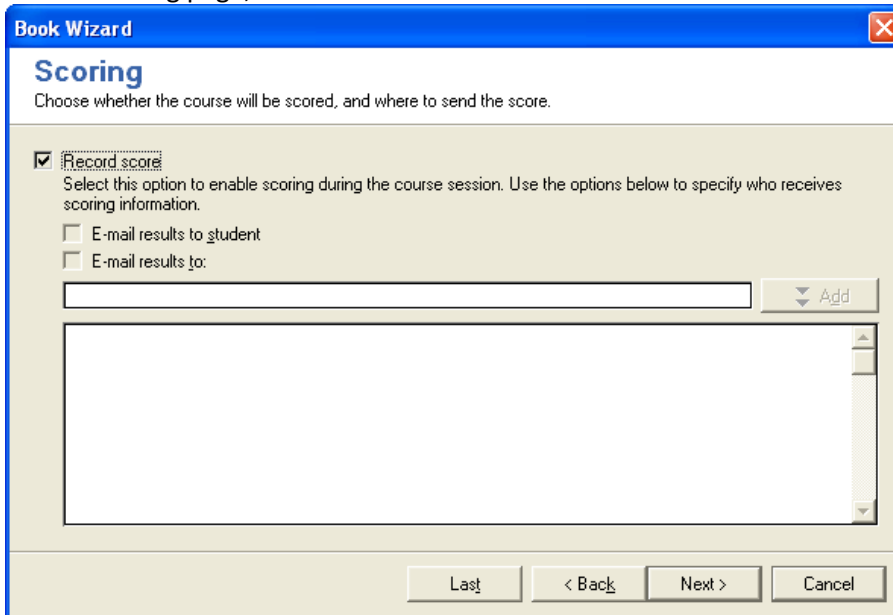
8. On the Book Outline page, select the Simple Quiz option in the outlines list.



9. On the Page Size page, choose Default page size for style.

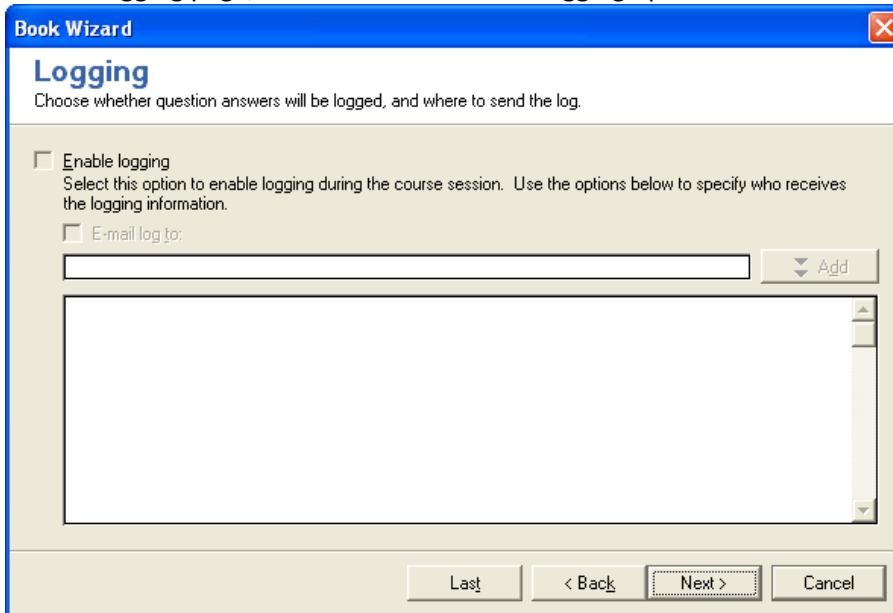


10. On the Scoring page, make sure that the Record score checkbox is checked.



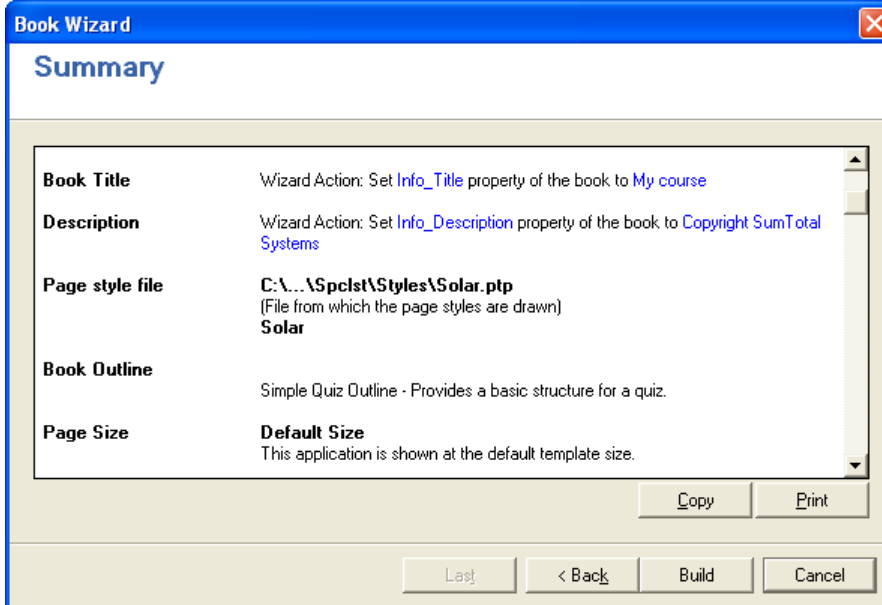
The screenshot shows the 'Book Wizard' dialog box with the 'Scoring' tab selected. The title bar reads 'Book Wizard' and the window has a close button. The main heading is 'Scoring' with the instruction: 'Choose whether the course will be scored, and where to send the score.' Below this, there is a checked checkbox labeled 'Record score'. A sub-instruction reads: 'Select this option to enable scoring during the course session. Use the options below to specify who receives scoring information.' There are two unchecked checkboxes: 'E-mail results to student' and 'E-mail results to:'. Below the second checkbox is a text input field and an 'Add' button. A large empty list box is positioned below the input field. At the bottom, there are four buttons: 'Last', '< Back', 'Next >', and 'Cancel'.

11. On the Logging page, ensure that the Enable logging option is unchecked.

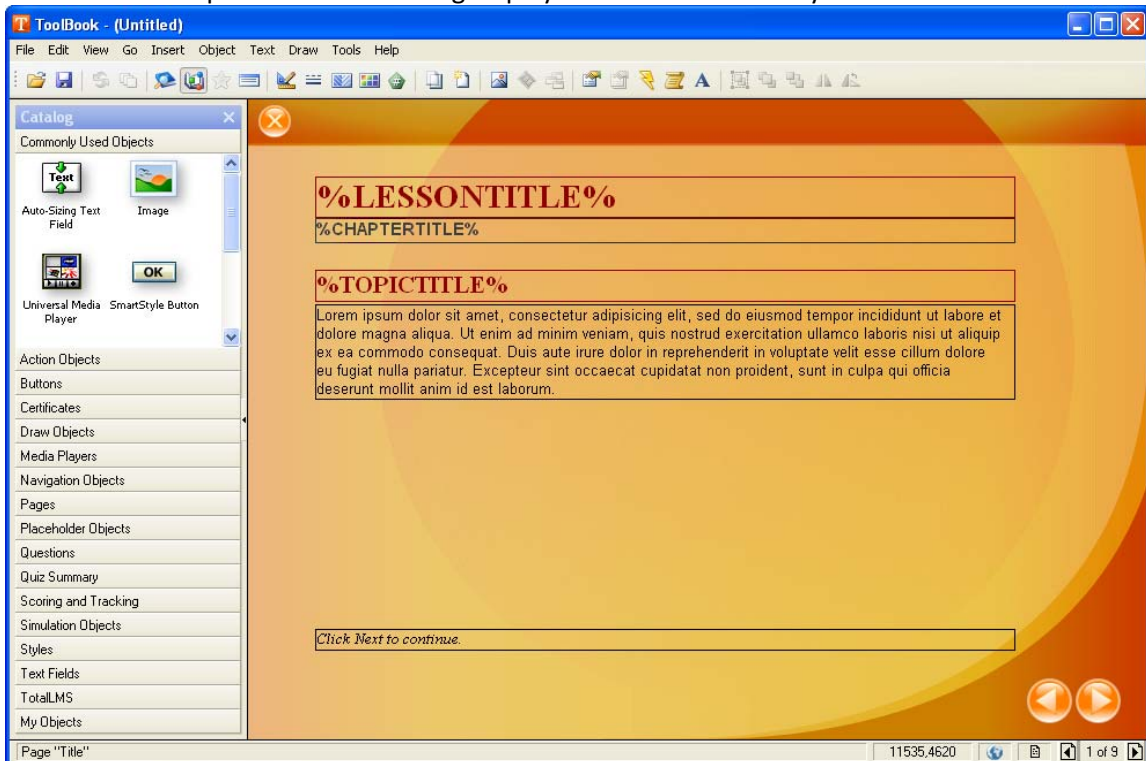


The screenshot shows the 'Book Wizard' dialog box with the 'Logging' tab selected. The title bar reads 'Book Wizard' and the window has a close button. The main heading is 'Logging' with the instruction: 'Choose whether question answers will be logged, and where to send the log.' Below this, there is an unchecked checkbox labeled 'Enable logging'. A sub-instruction reads: 'Select this option to enable logging during the course session. Use the options below to specify who receives the logging information.' There is one unchecked checkbox: 'E-mail log to:'. Below this checkbox is a text input field and an 'Add' button. A large empty list box is positioned below the input field. At the bottom, there are four buttons: 'Last', '< Back', 'Next >', and 'Cancel'.

12. The next page of the wizard shows you a summary of the options you've selected. Click the Build button to build your book.



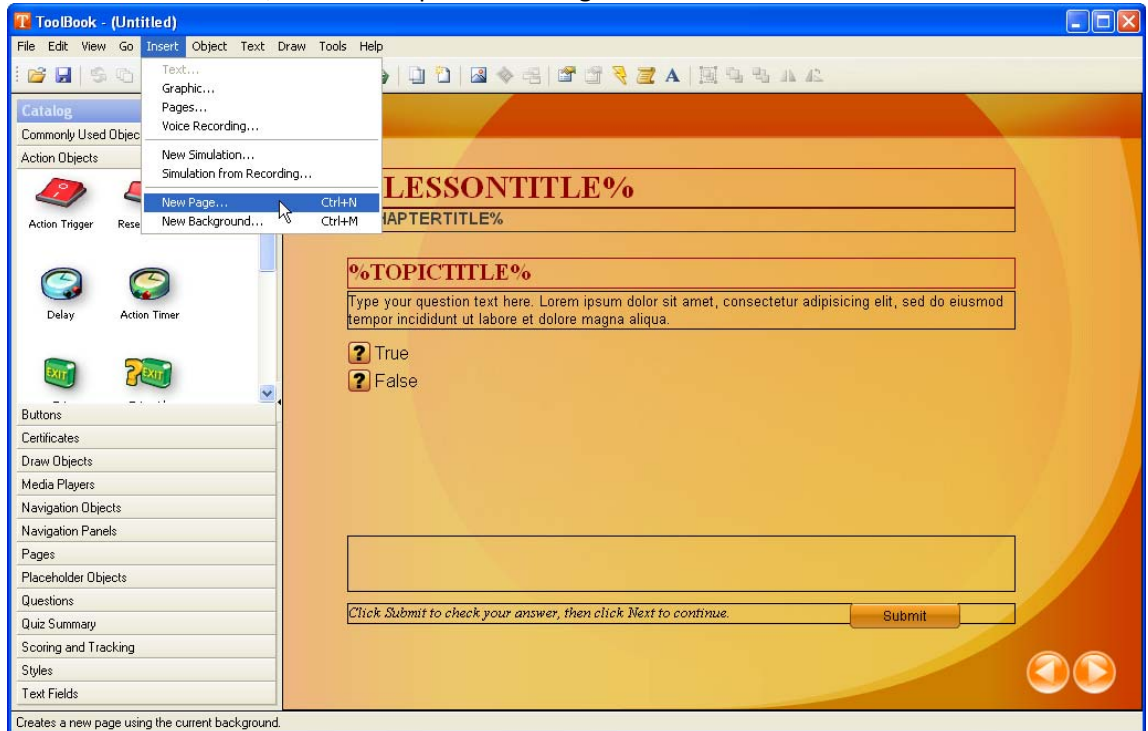
13. Your new book opens with the Catalog displayed on the left side of your window.



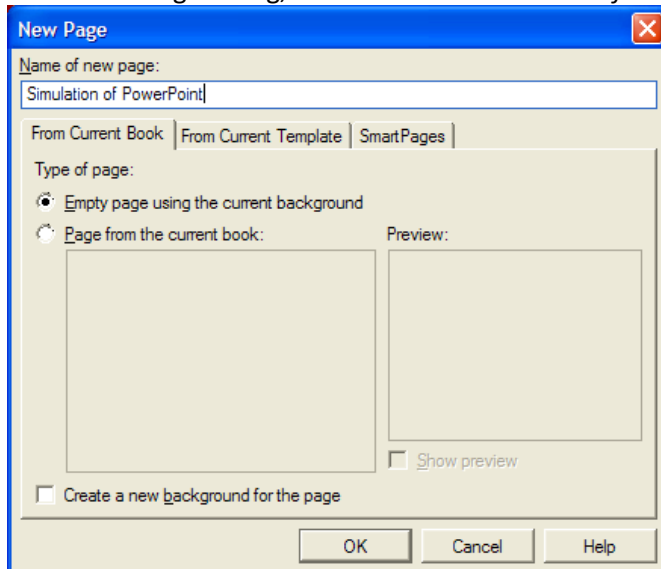
Preparing to Add a Simulation

► Add a blank page for the simulation

1. Navigate to page 4 of the ToolBook book by clicking the right arrow in the status bar at the bottom of the page.
2. From the Insert menu, select the option New Page



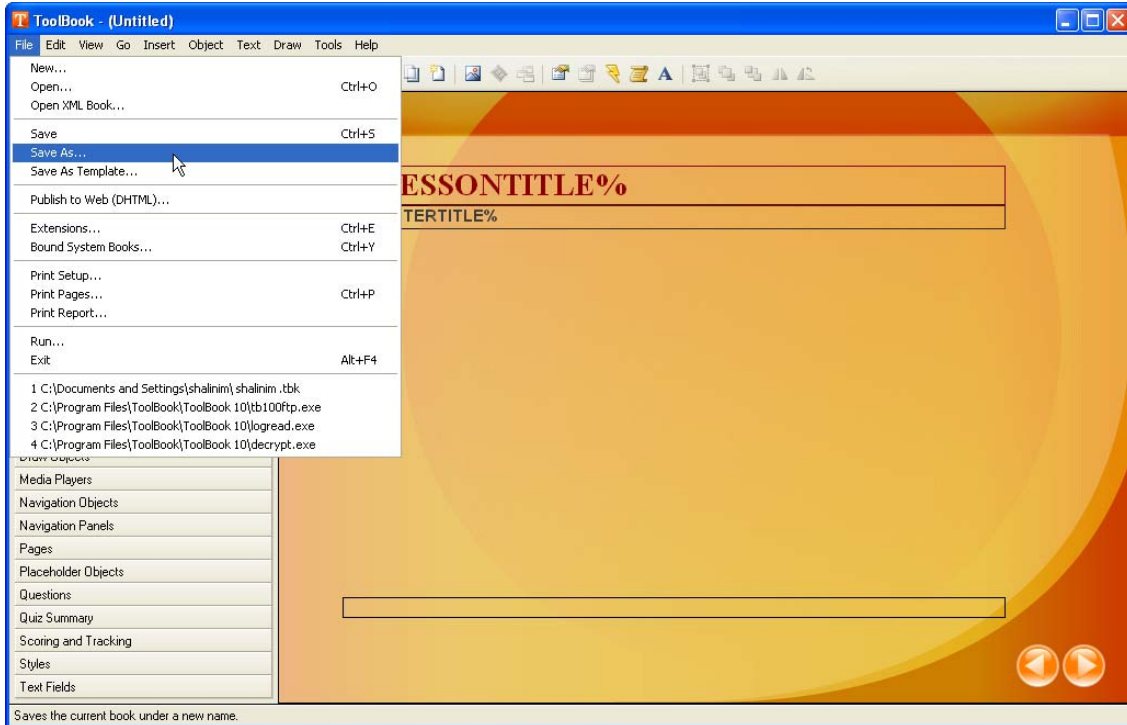
3. In the New Page dialog, enter the text *Simulation of PowerPoint* and click OK.



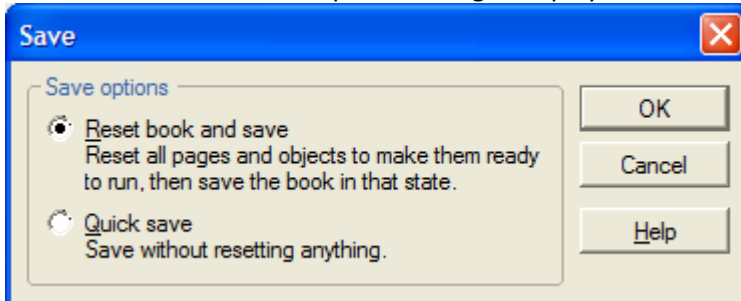
Saving a ToolBook Book

► Prepare your book for the next step by saving the book

1. From the File menu, choose Save.



2. Select OK when the Reset options dialog is displayed.



3. Type in a file name. For this example, use the name "Test". Select Save.

Creating a Simulation with ToolBook's Simulation Recorder

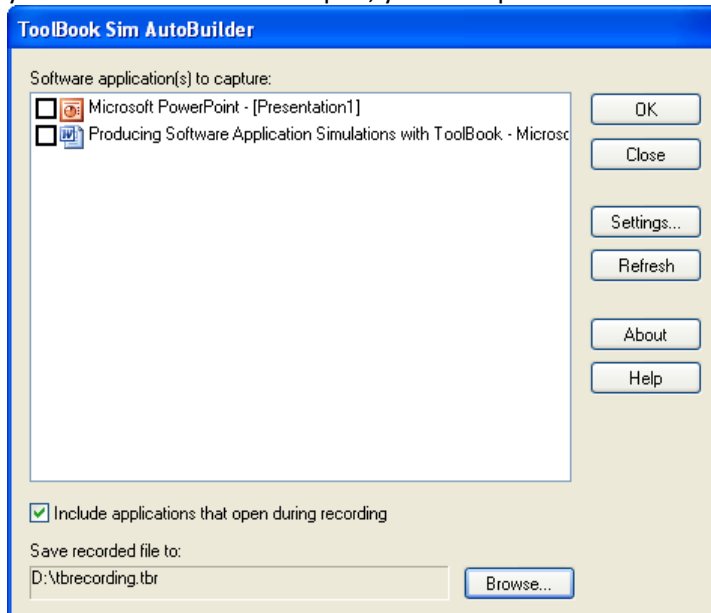
A software simulation can be created quickly with ToolBook by using the Sim AutoBuilder, a simulation recorder provided with ToolBook. An alternate method is to create the look and behavior of the target application by using ToolBook's built-in objects. In this tutorial, we will create the simulation using the simulation recorder.

Either way, an accurate reproduction of the original software application is produced, with buttons and menus and other interactive objects that act like the real objects in the original software program. The simulation can then be deployed as HTML in any combination of Demonstration, Practice, or Assessment modes.

While you are recording with the Sim AutoBuilder, the mouse clicks, keyboard entries, and other actions you take are saved each time you press the Print Screen key (or another selected key combination). This XML-based recording is then imported into ToolBook producing a fully-operational software application simulation deployable in any combination of Demonstration, Practice or Assessment modes. You can then edit the simulation using ToolBook's simulation editor.

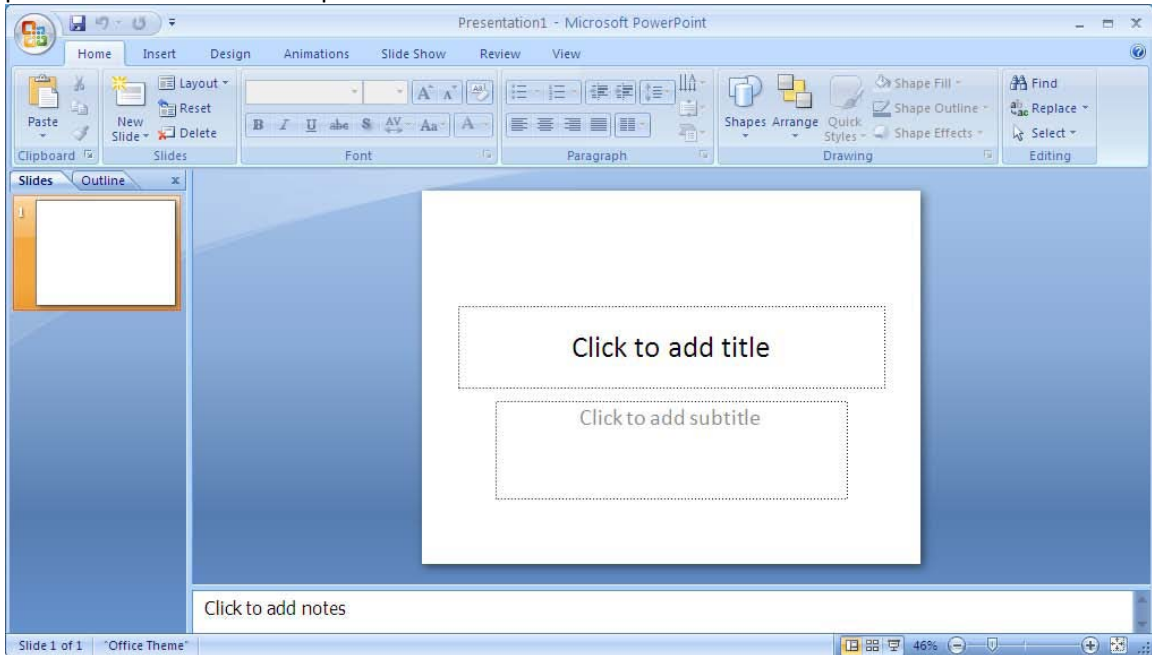
► Using the simulation recorder

1. The Sim AutoBuilder is accessed from the Start menu. To launch it, point to Programs, ToolBook 11, Utilities and then select Simulation Recorder.
2. The main screen of the Sim AutoBuilder recording tool is displayed. It shows all of the applications currently open on the desktop that can be selected for recording. If the application you wish to record is not open, you can open it and then click the Refresh button on the right.

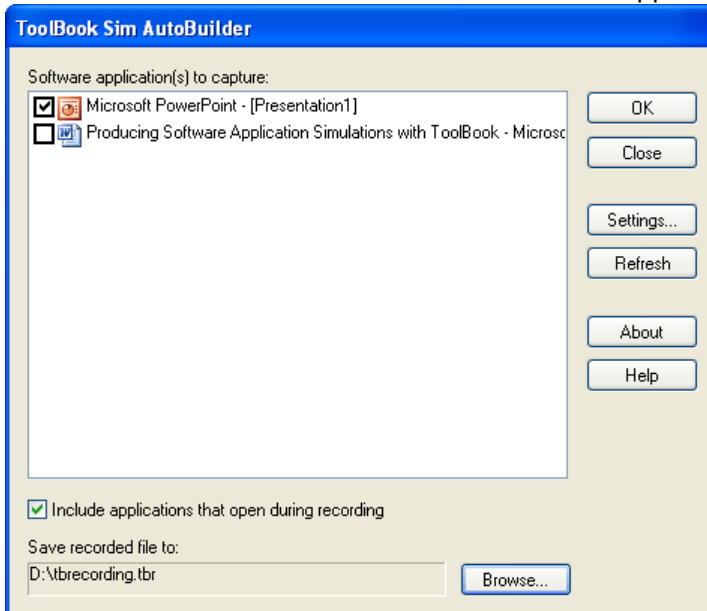


3. For this example, we will be recording the process of opening a presentation in Microsoft PowerPoint. Make sure Microsoft PowerPoint is up-and-running on your desktop with an empty

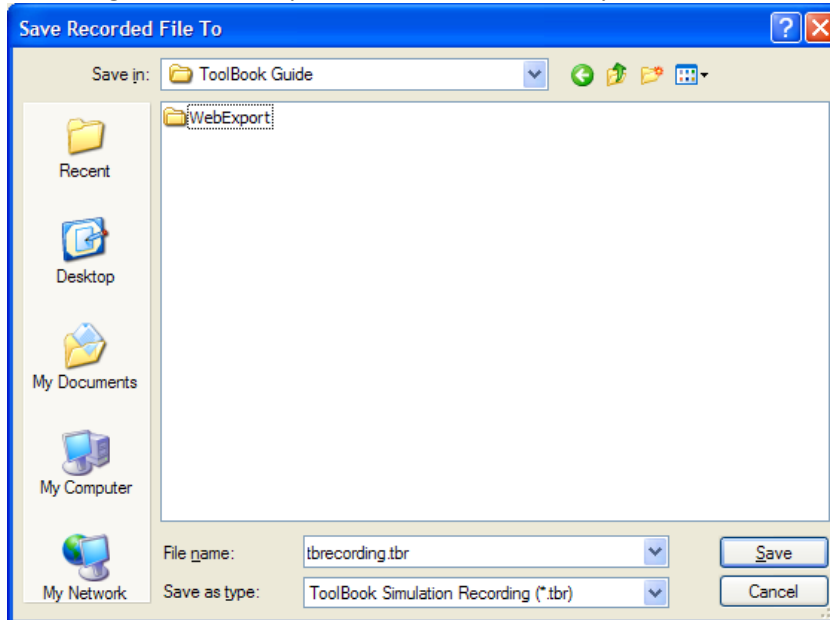
presentation as the active presentation.



4. Make sure Microsoft PowerPoint is listed in the Sim AutoBuilder Application. If it is not, click the Refresh button. Select Microsoft PowerPoint as the application to capture.



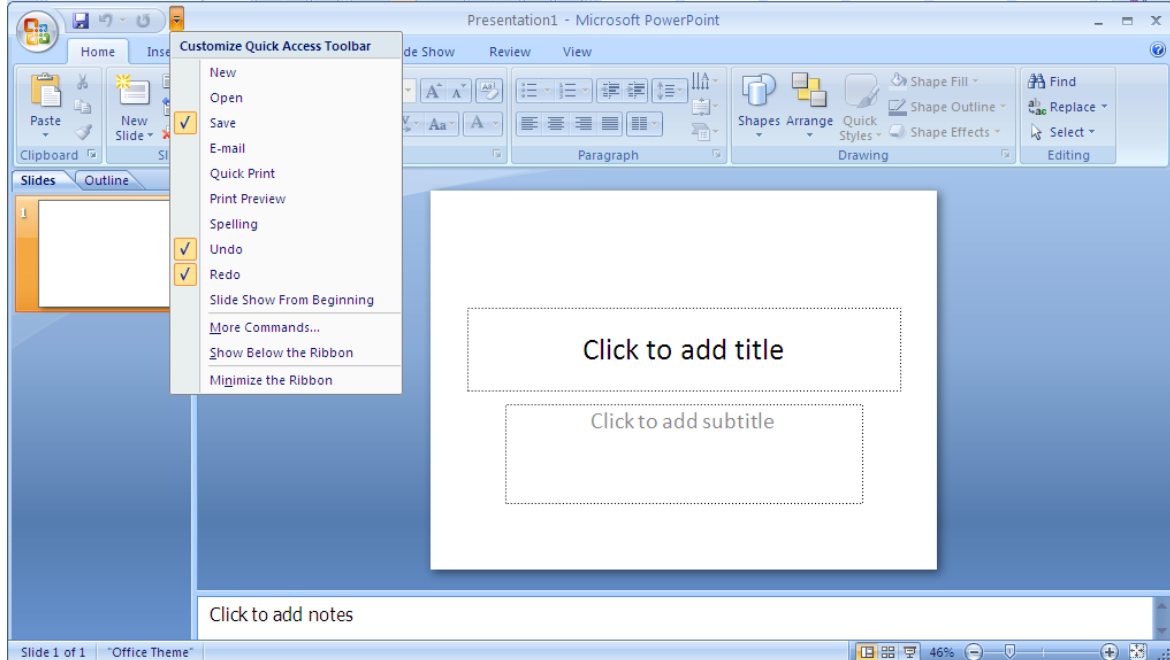
5. Select the Browse button in the Sim AutoBuilder. Specify a location to save the simulation recording. You can accept the default file name if you desire.



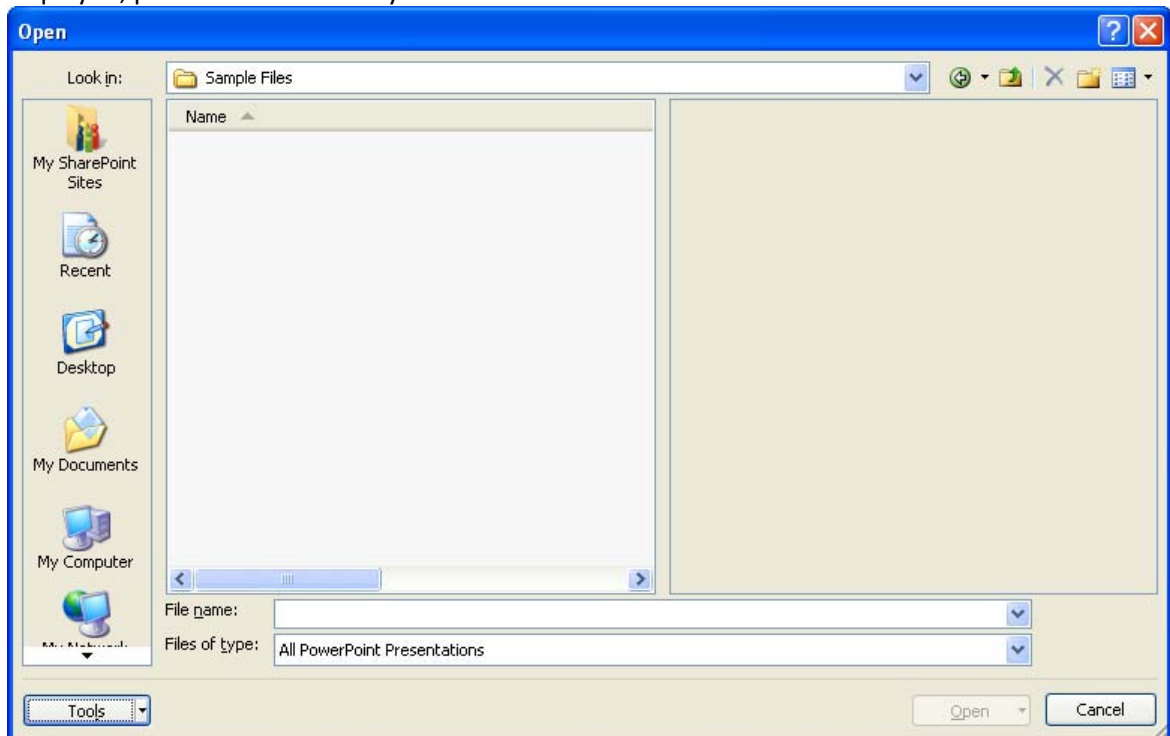
6. Press the OK button from the main screen of the Sim AutoBuilder. If an instructions dialog appears, review the instructions and then click the Close button. The Sim AutoBuilder application is now waiting to start recording Microsoft PowerPoint.
7. Make Microsoft PowerPoint the activate application by clicking on the Microsoft PowerPoint application with the mouse. Start the Sim AutoBuilder recording process by pressing the PrntScrn key on your keyboard. You should now hear a camera shutter. This sound is produced by the Sim AutoBuilder to let you know it is working. The Sim AutoBuilder also indicates that it is recording by animating the camera icon in the system tray. If you do not hear the camera shutter sound, make sure your sound system is on.

Note: You do not have to have a sound card to use the Sim AutoBuilder.

8. Select PowerPoint's Customize Quick Access Toolbar. Once the menu is fully displayed, press PrntScr to record a step using the Sim AutoBuilder.

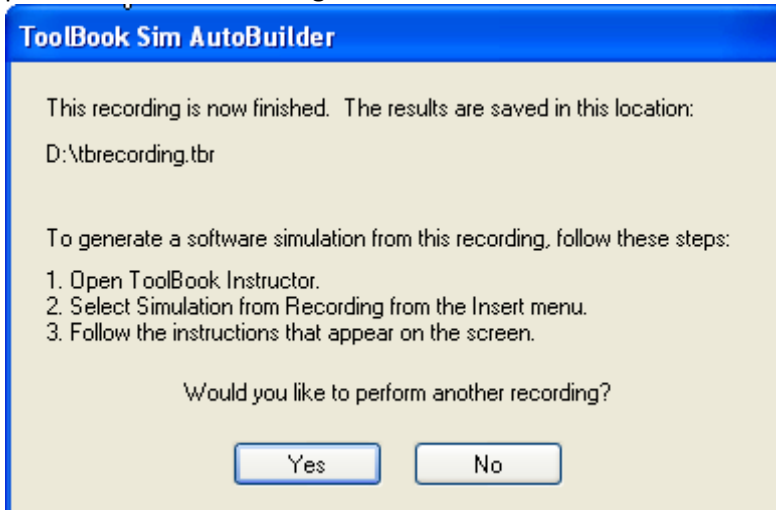


9. Select PowerPoint's Open option. Once Microsoft PowerPoint's File Open dialog box is displayed, press the PrntScr key.



10. Dismiss PowerPoint's Open dialog by pressing Escape.
11. Define another simulation step in the recording by pressing the PrntScr key

12. Turn off the simulation recording process by pressing the Ctrl and PrintScrn keys at the same time.
13. When you finish recording, the Sim AutoBuilder displays a dialog box asking if you want to perform another recording. Select No.



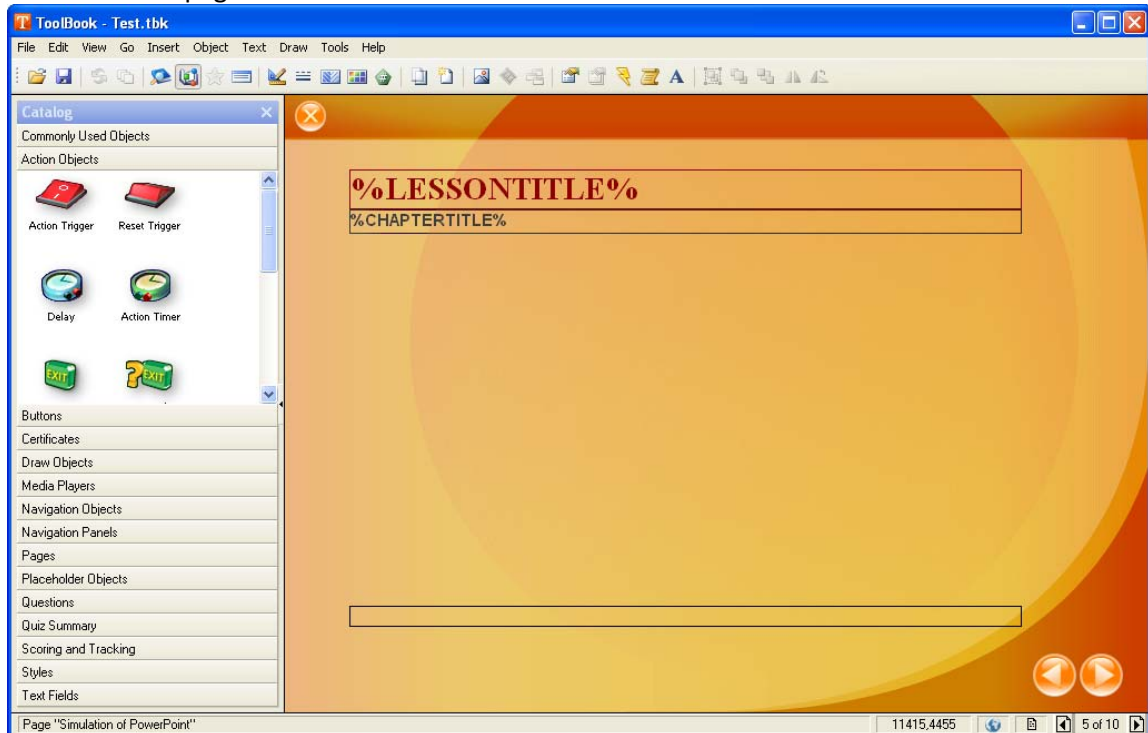
14. Next, we will go to ToolBook to import the recording created using the Sim AutoBuilder.

Creating a Simulation from a Recording

ToolBook will now be used to generate the software application from the saved recording produced when using the ToolBook Sim AutoBuilder application.

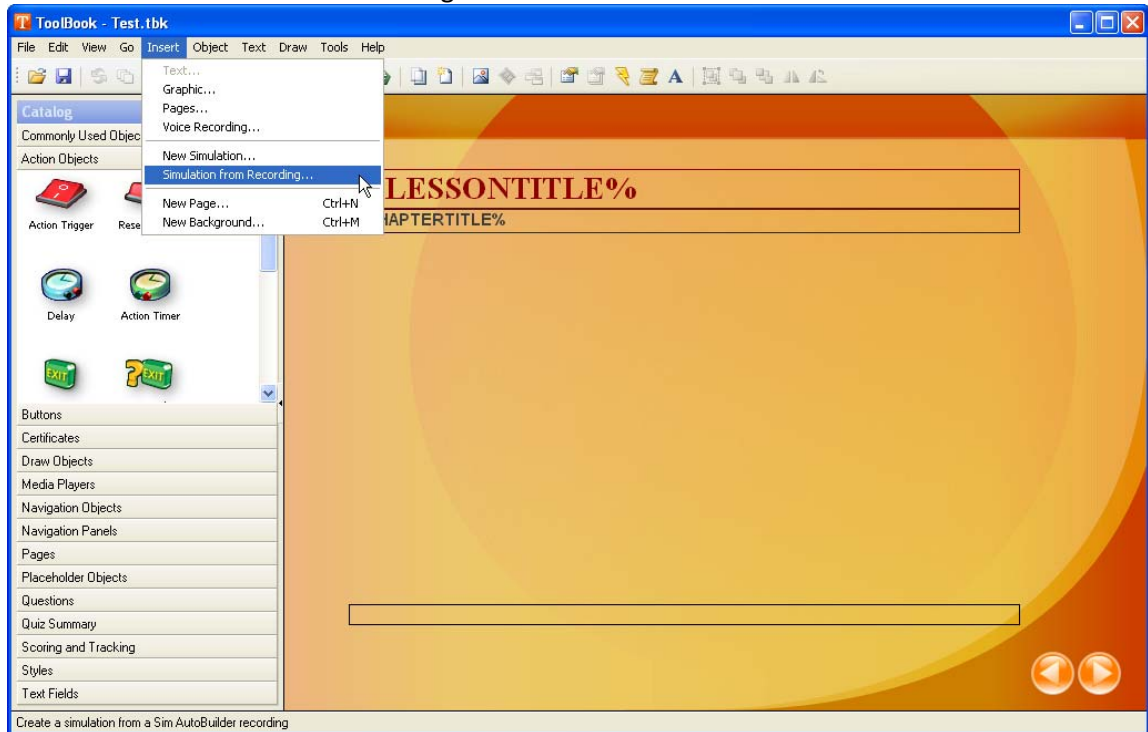
► Inserting a recording

1. Open ToolBook. From the Start menu, point to Programs, point to ToolBook 11, and then click ToolBook 11.
2. In the ToolBook Startup dialog box, click **Recently Opened Books**.
3. Select the ToolBook book you created previously. If you were following this tutorial exactly, it will have the file name *Test*. Once selected, select the Open Book button.
4. In Author mode, navigate to the page you created previously to place the software simulation. This should be page 5.

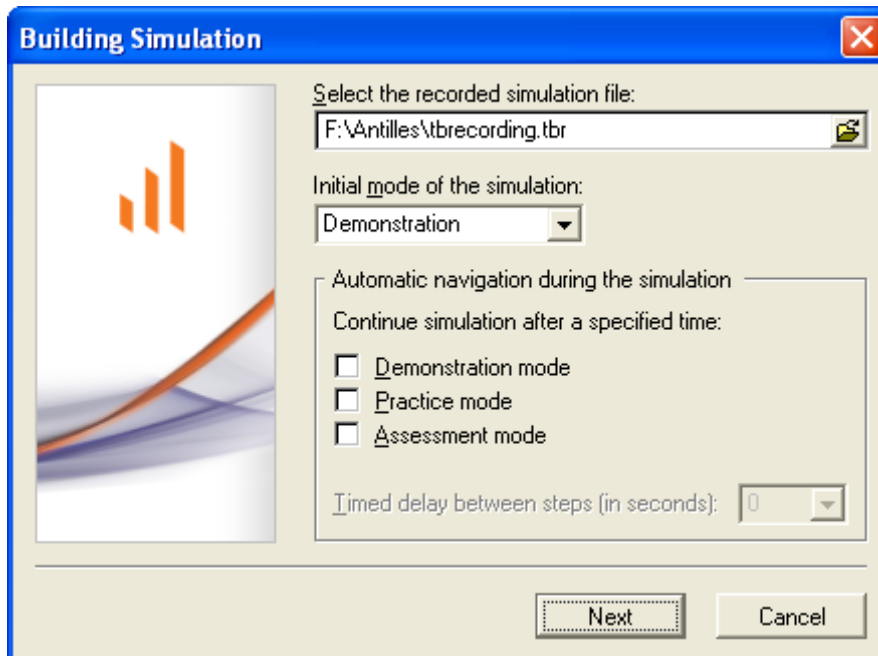


5. Select the Insert menu.

6. Select the Simulation From Recording menu.



7. The Building Simulation dialog box appears. The file name of the most recent recording appears in the first field.



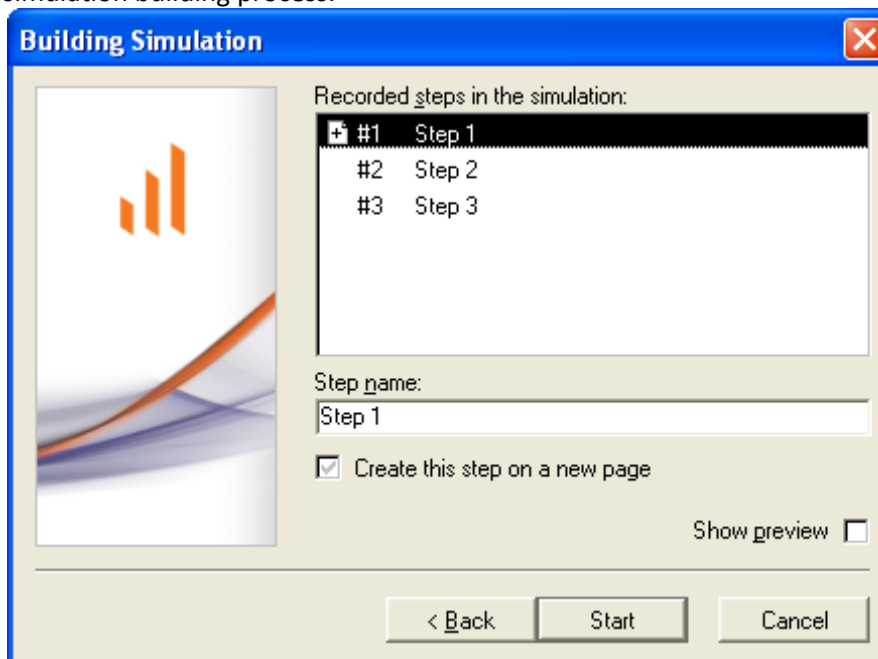
A single software simulation created in ToolBook can be shown in one or more of the following modes:

- **Demonstration mode** shows how to complete the task. Typically, there is no user interaction. The simulation can play automatically or based on the users selecting a key such as the space bar.
- **Practice mode allows** a learner to try out each step for a limited or unlimited number of attempts to complete the step. Practice mode can be scored.
- **Assessment mode** allows only one answer attempt for each step. This is a type of test and a score is calculated for each learner who takes the assessment.

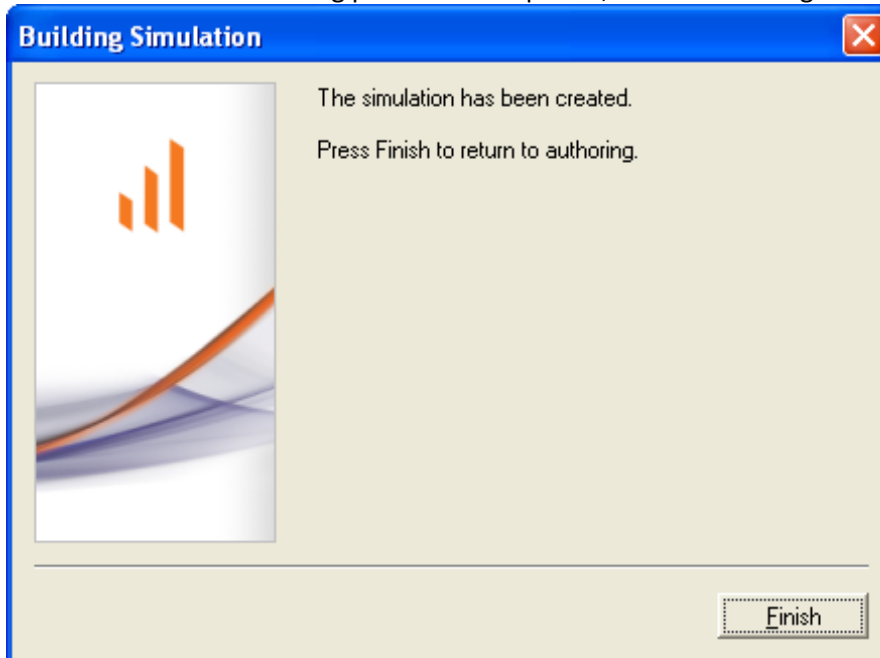
For this tutorial, we will use the default simulation mode which is Demonstration. When a user views the simulation page, this will be the mode in which the simulation runs. This can be changed later using ToolBook's Simulation Editor.

Since Demonstration mode is the default selection, select Next in the Building Simulation Dialog box.

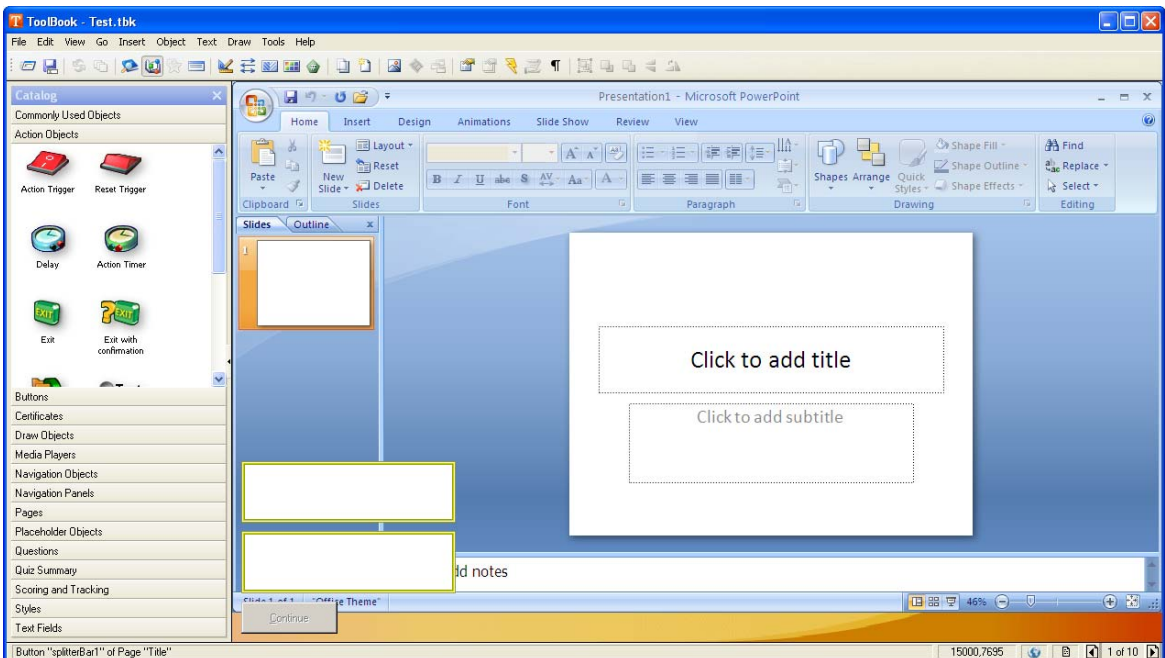
8. Next, the number of steps in the recording is displayed. Click the Start button to start the simulation building process.



9. Once the simulation building process is completed, select Finish to go to Author mode.



10. You will now see the simulation in Author mode.



11. To view the simulation as a user, go to Reader mode by pressing F3. Press the Continue button when prompted.
12. Go back to author mode by pressing F3.
13. Save your ToolBook book by pressing Ctrl-S. Select OK as needed to save the book.

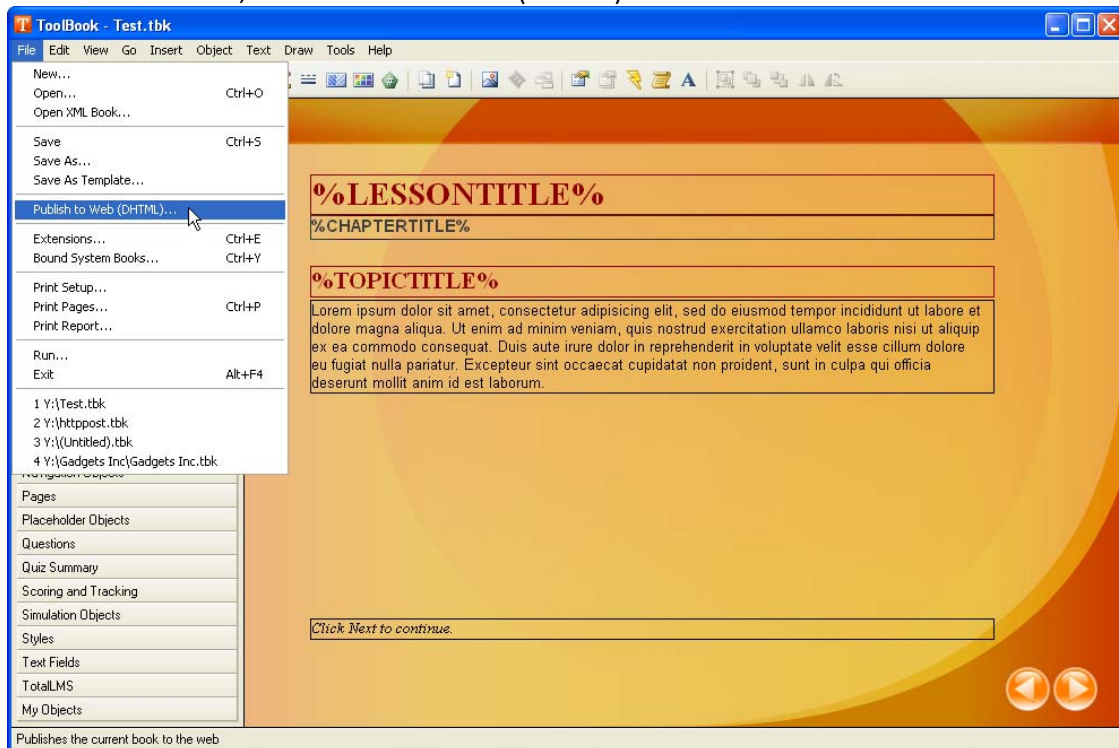
After the simulation is built using the Insert Simulation From Recording option, you may refine the simulation, such as the default instruction and feedback text, or editing the simulation flow, by using the Simulation Editor.

Publishing the Software Simulation to the Web

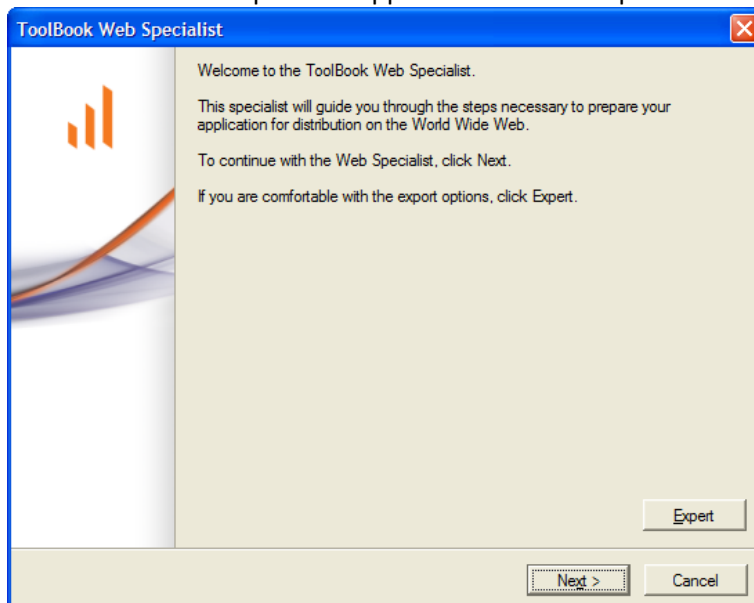
After you finish building your course in ToolBook, prepare it for distribution by choosing Publish to Web from the File menu. This opens the Web Specialist, which is a wizard that prompts you for information to deliver your book as a series of deployable HTML files.

► To export a book for the Web and enable SCORM communication with an LMS

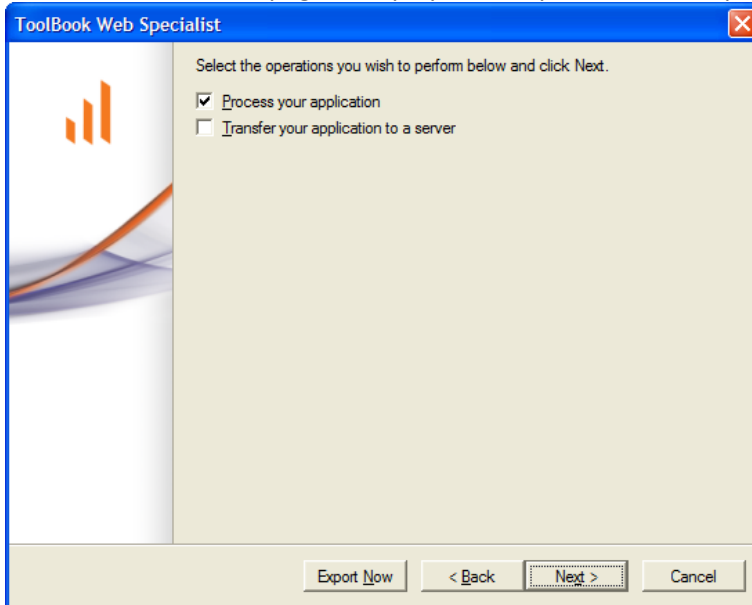
1. From the File menu, select Publish to Web (DHTML).



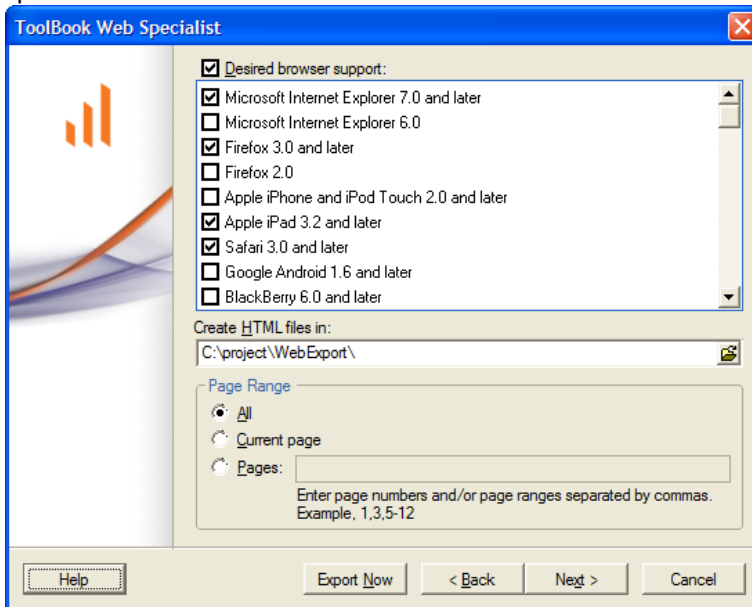
2. The ToolBook Web Specialist appears. Select the Expert button.



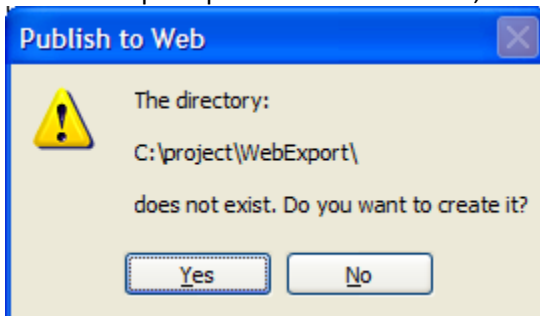
- When the first wizard page is displayed, accept the default options. Select Next.



- On the next wizard page, accept the default options shown below. Please note that this page specifies the location to store the Web files. Click Next.



- You will be prompted to create a folder, Click Yes.

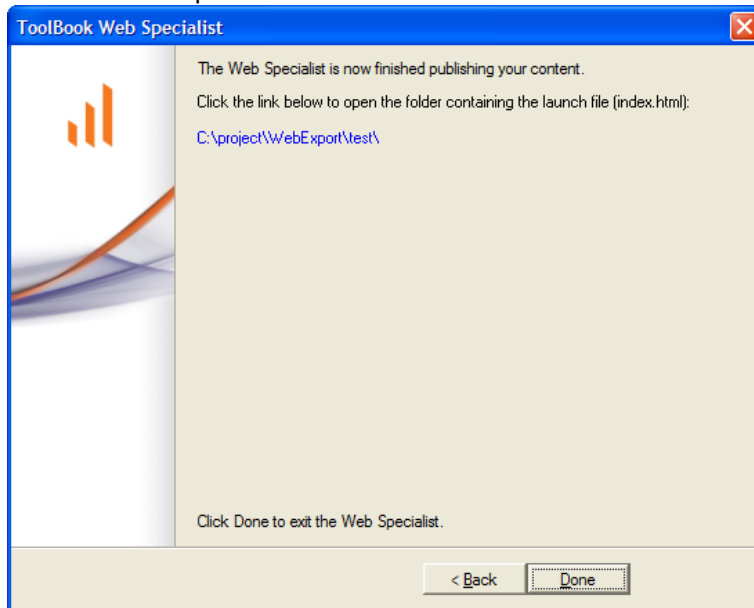


6. Next, you are asked if the ToolBook course will be used with a LMS. Leave the default options alone since for this tutorial the content will not be delivered in a LMS. Select Next.
7. When the wizard prompts you about the Start page, leave the default options alone. Select Next.
8. In the page with options for content loading, leave the default options alone. Click Next.

The Publish to Web Progress dialog box appears. During this process, ToolBook is creating the HTML pages for the course and inserting the appropriate SCORM communication. After the export process is finished, click Next.

Note: To view the content in a Web browser, click the Preview button. If you select the Preview button to preview the Web content, be sure to come back to this Wizard panel and click Next so the publishing process can continue.

9. A wizard pane is displayed indicated that ToolBook is ready to produce the SCORM Package file. Select Next.
10. After the packaging process is complete, a summary page displays. Select Done to complete the Publish to Web process.



Conclusion

We hope that this guide has been helpful. If you have any questions about using ToolBook, please contact SumTotal Systems.