



Faculty PDF Toolkit

SCC Flex Workshop with Melissa Green

Please sign in:

Name

Email Address

Document Info

Version: 8

Date: August 20, 2008

<http://web.scc.losrios.edu/instrdev/acrobat/interactive>

Faculty PDF Toolkit

Match Student Input to Answer Fields

This is a basic introduction to an interactive activity. You will have four types of fields: question, answer, response, feedback. The answer field is hidden from students in your master document and the response they type will be matched to your answer. Then they will view feedback based on their input.

Interactive Handouts with Adobe Acrobat
Practice with addition using a syllabus grading scale.

Assignments	Points	Your Effort
Attendance		
Homework		
Lab Work		
Quizzes		
Tests		
Presentation		
Research Paper		
Total		

Feedback

Faculty PDF Toolkit

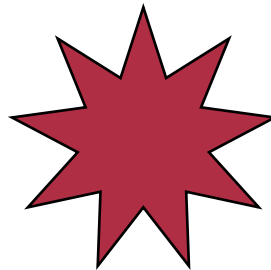
Cover Up Buttons

Show hidden information with a ‘whiteout’ button.

Mouse Enter & Exit Actions



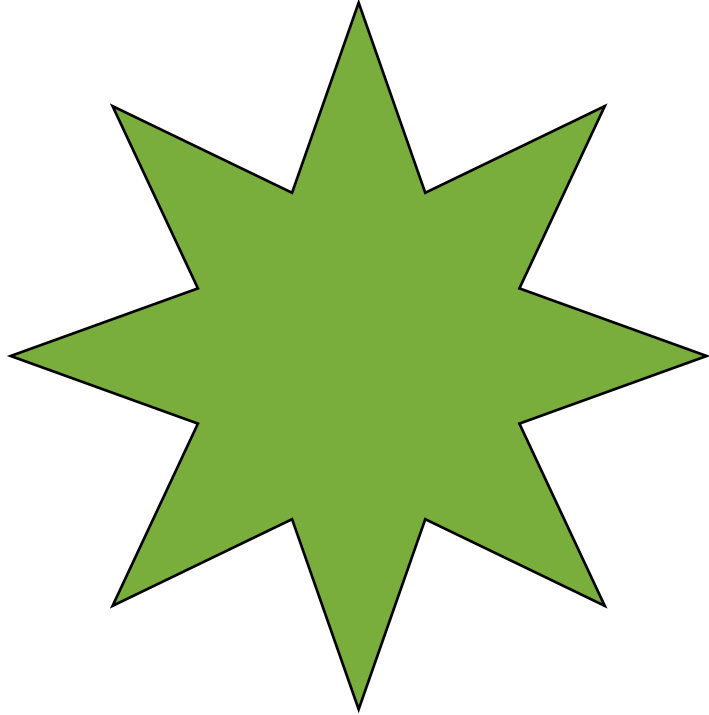
Mouse Up (click) Action



Faculty PDF Toolkit

Buttons Reveal Hidden Fields

Show hidden information with a visible or invisible button.



Information fields appear below.

Eight hidden fields are controlled by buttons for a non-Javascript solution.

Faculty PDF Toolkit

Buttons Reveal Hidden Information

A button covers the individual terms in this example vocabulary list. The button has two Javascripts, at MouseEnter and MouseExit using a call to the generic event.target turning the rectangle fill to transparent. Look at the button's Action tab for details. Event.target covers the object under the mouse or at the cursor (keyboard). I like this solution because it is easy to replicate in your projects.

Term	Definition
Button	On-screen object with a script that responds to a mouse action or keyboard action
Field	On-screen object for user to type information
Toolbar	On-screen collection of related commands for one-click user interaction
Icon	On-screen simplified picture depicting the available action or script

One button with this functionality could reveal the entire column.

Term	Definition
Button	On-screen object with a script that responds to a mouse action or keyboard action
Field	On-screen object for user to type information
Toolbar	On-screen collection of related commands for one-click user interaction
Icon	On-screen simplified picture depicting the available action or script

Faculty PDF Toolkit

Practice Input, Match & Feedback

There is an old saying about the days of the week and matching the day you were born to a life challenge. See how you do with this matching exercise that an English Grandmother could easily recite:

Name:

Monday's child is	correct !
Tuesdays child is	correct !
Wednesday's child is	correct !
Thursday's child is	correct !
Friday's child is	correct !
Saturday's child is	correct !
But the child who is born on the Sabbath Day is bonny and blithe and	correct !

Check my answers now!

Go Online to Review

In this example, the form fields for student input are placed on top of the positive feedback. When students responses match the teacher answer, the field will be hidden revealing the embedded feedback. The student can type new answers in visible fields. I am also planning an online link for additional information that will be visible after all questions are answered and checked.

Faculty PDF Toolkit

Matching Example - Real Estate Form

Create these fields manually to keep with the hierarchal object naming scheme we have planned.

Borrower	Correct !
Co-Borrower	Correct !
Amount	Correct !
Interest Rate	Correct !
Subject Property	Correct !
Year Acquired	Correct !
Original Cost	Correct !
Liens	Correct !
Purpose	Correct !
Cost of Improvements	Correct !
Title Names	Correct !
Title Manner	Correct !
Borrower DOB	Correct !

Feedback

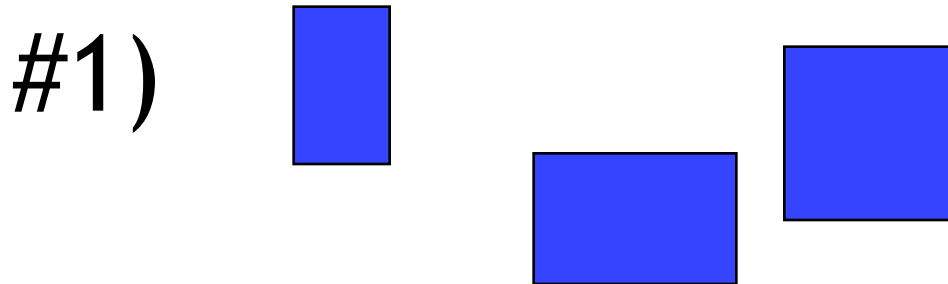
Use trial and error (read the online help) for automatic form field recognition. I am comfortable creating fields in one project, working the size and appearance as needed then copying the fields to final project.

Faculty PDF Toolkit

Create Buttons - Guided Practice

Using Acrobat Professional's Form Toolbar, create **buttons** covering the graphics on this page as a reference. Part #1 use the Advanced Editing Toolbar and to select the square the trio of existing buttons, set their size (height and width) to the square, align them on their bottoms and space them out horizontally. Part #2 will have a yellow fill, a black line, a label of Print This Page and a MouseUp action using the File > Print menu. Part #3 create new button with a red fill, a pink line, a bevel effect and a Mouse Enter action to hide button #2.

What is missing? A Reset button to un-hide buttons #2, a label on each button #3 tooltips indicating the purpose or action of each button.



Faculty PDF Toolkit

Create Fields - Guided Practice

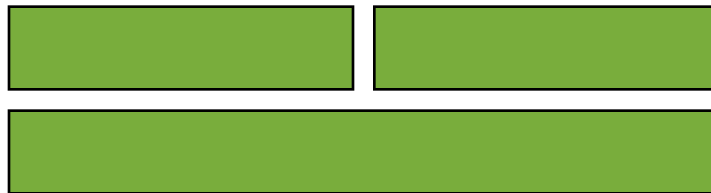
Using Acrobat Professional's Form Toolbar, create **fields** using the graphics and tables on this page as a reference. Part #1 use the Advanced Editing Toolbar to select the existing field, adjust the size to cover the graphic, add this tooltip: Type your email address. Part #2 create three fields (s.name.first, s.name.last and s.name.full) and fit them over the graphics. In the Field Properties dialog make s.name.full a read only field. Part #3 create the first tier of fields item, eaprice, qty and ext. use the Advanced Editing Toolbar to select the first tier of fields, use Control+Click or right click to create multiple copies. The fields will be deliberately renamed! Create a subtotal field with a sum of ext.

What is missing? **Tooltips** on all fields and a script to **concatenate** the s.name.first and s.name.last fields into s.name.full field. The script could be attached to an on blur event of the s.name.last field. Another script to consider would be to welcome the student by first name in an alert dialog box.

#1)



#2)



#3)

Item	Price Ea	Qty	Extension
Subtotal			

Faculty PDF Toolkit

Student Name & Email Fields

The cover page asked you to fill in your name and email. Here are the fields with additional background information.

Add these fields to your PDF file to personalize the document (check the header of this page!). When you add other form fields then this information will be available to personalize the interaction with each student. Also, these fields will be helpful in sending email or submitting information to a web database. These fields will so be used when your PDF is enabled for Commenting.

In the final project, two of the four fields are hidden, just the full name and email address are visible to the student.

The full name field is the key to showing hidden buttons and fields for faculty use. You will add a secret word to this script to allow you to view hidden fields and set new field values.

Name

Email Address

After working in years, I've started based on their

to control them in a project. Fields are easily visible or invisible by a Javascript code. But to purge fields of the data entered, it is easiest to use the Reset Field option in a Mouse Up button. So identifying randomly named fields is a challenge. Here is an example of names:

Acrobat for several naming fields in groups purpose and how I want

Teacher	Student
t.h.name.first	s.name.first
	su.experience

Student Survey

First Name:

Last Name:

Email Address:

Related Coursework

Last Math Class

Date

Last English Class

Date

Related Experience

Work

Community

Other

Course Details

Instructor

Course

Semester

Submit

Edit button properties to change mailto address

Faculty PDF Toolkit

Semester Schedule by Week



Faculty PDF Toolkit

Javascript: Try It, You'll Like It

Practice reading Javascript code here. Use the **Choose Other Scripts** pop-up menu to place different scripts in the field. Click the **Run JS Code** button to see what happens. When the script runs you will see a dialog box report of the script. Try editing the script and running your custom code. I've tested these original scripts and did not leave an error to haunt you.

The pop-up menu list is not descriptive, by design. You can open this document in Acrobat Professional (version 7, 8 or above) and edit the list names. Use the Advanced Editing toolbar, select the Arrow tool and then double-click on the Choose Other Scripts button.

As a starting nudge, consider these hints: **Box 1** is "Simple Math" - **Box 2** is "Alert User" - **Box 3** - "User Types Response". Work through the other menu items and rename the options to be useful in your JavaScript work. The pop-up menu uses the Switch construction which is recommended over nested ifs.

When you get hooked on JavaScript and Acrobat, the Console tool to help you write and test scripts before adding them as actions to button and field objects.

Faculty PDF Toolkit

Planning Field Names

For non-programmers the **hierarchal names** Acrobat uses to identify objects, buttons and fields will be a challenge at first. The parent.child naming allows for easier identification of resources and makes writing Javascript easier in advanced stages. Our goal is to easily display the student fields and to hide the instructor fields. The way objects are named will make this task easy.

s.name.first
s.name.last
s.name.full

Form fields will be added to identify the document, course, activity, instructor, student name, email and any online processing (CGI) information. These base fields are named with a **b.i. prefix indicating base.instructor** relationships.

Instructor answer fields will be named with **t.a. prefix indicating teacher answer**. Instructor feedback fields will be named **t.r.y. and t.r.n. for correct and incorrect feedback**. Student response fields will be named with a **s.r. prefix indicating student response**.

My suggestion is to manually create fields for teacher answers and student responses. As I plan projects, I will keep the fields names generic but add Tooltip information to assist students in completing the form task. Also, once I've created a working set of fields, they can be copied to any project and the calculations will work with minimal revisions.

General setup - keep all teacher answer fields the same color - a light green and keep all student response fields the same color - a light yellow. Run a document script to turn on field highlighting which turns all fields visible light blue.

Option one: A script will check student responses against the correct answers and hide any fields that are correct then turn off the Highlight fields view so that only the incorrect fields are visible.

Option two: A script will check student responses and turn any incorrect fields a different fill and line color. Students can correct and check answers again.

Add a student feedback field to report any prepared comments. Other fields for consideration can track time, repeats and score.

Add a Reset button to clear the student input fields and feedback but not the instructor answer and feedback fields.

Faculty PDF Toolkit

Diving Into JavaScript

Javascript Required (to hide/show fields)

Instructor fields will be hidden from students and only visible when the instructor is editing the PDF document. A script will be included in the student name field that will reveal the

instructor fields for edits. The simple Javascript to control the visibility of fields will reference all fields by their first letter to make them visible or invisible. The student button is shown here, and the teacher button will just flip the true/false options.

```
this.getField("t.").hidden = true ;  
this.getField("s.").hidden = false ;
```

Reset Fields with Dialog Box Options

There are two ways to reset fields to their original information. The easy, direct way is to add a Mouse Up Action in the field properties dialog box. The interface gives you a check box for every field to be reset. If the fields have hierarchal names, all the fields to be reset will be listed together.

```
this.getField("s.").value = "" ; //no  
this.getField("s.r.1").value = "" //yes ;
```

The second way to reset field values is to write a Javascript and attach it to a Mouse Up Action. This is a more complex JS than we needed to hide/show fields because this is an opportunity for catastrophic data loss. The JS will need to directly call a field to empty the contents or increment through fields and individually empty their contents.

Concatenate Field Values

In this example there are three name fields, first, last and full. The full name field is created by combining the first and last in a Javascript with a space inbetween.

```
var fullname = this.getField("s.name.full") ;  
fullname.value = this.getField("s.name.first").value  
+ " " + this.getField("s.name.last").value ;
```