Final Project and Final Project Documentation

Guidelines and Assessment Rubric

There is a lot to read through here, make sure before you do your final submission that you go back through this document and **address all of the points** in your *project documentation* (which includes a *project front* end), and your other files (.fla, .swf, raw media, etc...) Finally make sure you **carefully read the submission directions** because they are different than what you did when submitting assignments.

The project documentation has two purposes. The first is functional, and the goal here is to provide enough information about your project that another developer or team of developers could easily come in and make revisions or extensions (many of you discuss in the scope section of your work plan more features and/or content than you intent to implement). The second purpose of your project documentation is to serve as a portfolio piece when you next go out and look for jobs. Following are some strong suggestions of things that will be good to have in your project documentation:

- Credits Give credit where credit is due, you should mention any subject matter experts you worked with (most likely your clients) and any material, such as actionScript from an outside source that you used or adapted as part of the project.
- Team Member Contributions (optional) In that same spirit if you are working on the final project as a group, talk about the team members and the role(s) each of you played.
- Next steps discuss the next logical area of development for your project. This should be pretty easy to put together from the scope section of your work plan, but might also include ideas that emerged as you put the project together. Finally, this is a great place to highlight things that were promised in your work plan that did not get done due to time constraints.

The remaining sections are a little more technical. This portion can be more of a "living" document if you choose, relying on good comments embedded within your code rather than a separate explanation of what your code does (although in both cases you will need a still need a broad overview separate from your .fla file of what is going on). Make the assumption that your end reader is familiar with Flash and knows a little bit about ActionScript, but do not make the assumption that they are familiar with your code. This portion of the documentation needs to include:

- Timeline Structure How is your project organized? (both in terms of layers, and major "events").
- Flow chart This can be an excellent means for diagramming some of the main system interactions. Depending on the complexity of your project, you might want to use a series of small flowcharts or one large flow chart. (If your layers are well organized and named well, you might collapse the timeline into the flow chart, by providing the frame number(s) of the various portions of your project). Pg. 54 in the option text has an example flow chart, in addition to the exemplar project that is on the course web page.
- Naming conventions What are your naming conventions for variables, layers, library items, etc...
 Some of these might be general (all lower case, with subsequent words capitalized) and some might be specific to particular items in your project (Dynamic text fields used to show text feedback are given an instance name in of "feedBackTextXX", where "XX" refers to the current frame number)
- Important variables List and discuss the key variables in your project (this will likely be limited to any session, client, or application variables).
- Critical code segments (again, using comments is acceptable). Walk a programmer through how
 your code works for complex sequences (such as drag and drop interactions w/ feedback). Don't
 make assumptions that it's obvious where your functions and listeners live since they can be just
 about anywhere. Even if you are relying primarily on code comments, include some frame
 numbers for people to check out and go right to where the more complex stuff lives.
- Known bugs Discuss known limitations of your program (ways that users can "break" it), or ways that it performs in an unexpected manner. Everyone should have some known limitations if they have drag and drop, as discussed in the lectures/screencasts.
- Video compression (optional) If you use video in your project, write down the settings used to create the video and the corresponding .flv files. If you had to do some complex post-production (such as adding subtitles) talk about the software and process you used to do so.

Other thoughts:

• Be concise, if you find you are repeating yourself, you should probably just explain it once and talk about other times that it happens (for instance, don't walk through how you implemented drag and drop fifteen times).

- Similarly, don't feel the need to give a blow by blow on precise pixels for where you placed elements. If you set up your project timeline well and you have a good overview, someone can figure out what they need to know.
- If you find yourself spending more than 3-4 hours on your project documentation you are probably going into too much detail, unless you are someone who typically takes longer with written documents.

ProjectFront End – As you have seen with the exemplars, you will be responsible for creating a simple web page (named index.html) that allows other class members (as well as other interested parties) to take a look at your hard work. This front end should consist of the following parts:

- Project Title
- System requirements you can pull this out of your work plan if you already wrote this into your limitations section, but let your audience know this up front.
- Primary development platform Was the work done on a PC or on a MAC? This is more for me as a grader, so that I can look at your development file(s) through the same lens.
- Link to work plan
- Link to project documentation
- Link to related media files (assuming that you used graphics, sound, and/or video, this would just be a link to a folder containing these files prior to import into flash so they can be edited and adjusted). I have had at least two students as me for their full projects after taking the class, and they were both grateful to have the original media as well.
- Link to development (.fla) file(s).
- Link to exported (.swf) file(s) if you promised web delivery, then link them to a web page with the .swf placed in-line. Flash will do this for you, but we did not cover this in class, I'm happy to help with this and with the project documentation front end if you need it, either during class consultation time or a scheduled time outside of class.

Final Project – These are the development files for your final project along with the exported .swf (or .swfs). Most of what I want is described below in the rubric. I will say that although you won't lose points for using scenes as a way to break up your file this does cause performance problems. The preferred method is to use movie clips as opposed to scenes.

- Deliverables: You will be handing in a folder (which will likely have sub-folders) of everything mentioned in the *project documentation front end* section above. You don't need to host this front end on a web server (I'll take care of that), although you are certainly free to do so over and above class requirements. What you do need to do though is give me everything I need to host it by packaging all of the materials into a single .zip archive. **Do not submit this .zip file to the class website** as it will to very unhelpful things with it. If it's small enough email it to me directly, but in past experience it's pretty rare this will work. Your best bet is the big file transfer system at USU: https://bft.usu.edu/. If you use bft.usu.edu don't fill out the optional A# to restrict access to your file. This locks the file with your banner password (which I don't know and don't want to know). You can also get it to me via external media (CD-R or DVD-R are acceptable) or some other system like bft.usu.edu (of which there are several to choose from).
- Submit to: see above. Since there are multiple ways to submit, send me an email message letting me know where I can find your project.
- File Naming convention: Use the following naming convention for your folder name (zip archives should have this folder at the top level, with all files and sub/folders contained within) finalProjectYourName, so if your name was Sam Walker your folder would be named finalProjectSamWalker.

Assessment Rubrics

Your final project **documentation** will be graded according to the following criteria:

Criteria	Points
Is your project documentation complete (would someone be able to recreate the structure of your project looking only at the final .swf and your documentation—more importantly, would they be able to easily find what they were looking for if they were forced to come in and make changes?) Does it contain all of the relevant portions as outlined above?	30 points
Is your project documentation accurate?	25 points
Is your project documentation professional (free of typographical and grammatical errors)?	25 points
Does your project documentation contain a functional front-end as described above?	20 points
Total	100 points

Your **final project** will be graded according to the following criteria:

Criteria	Points
Do you use a consistent naming convention for layers, symbols,	10 points
and pseudo-symbols? Do all of your layers have a meaningful	
name? (e.g. "layer 1" is not an option)	
Is your project easy to change and update?	20 points
you should have only the number of instances you	
absolutely need for each symbol or element of the	
project. • you should use consistent tab stops for your code—don't	
 you should use consistent tab stops for your code—don't be shy about using the autoformat button in the actions 	
window.	
Finally, you should not have any "magic numbers." For	
the purposes of this class, a magic number is defined as	
a value in ActionScript that is used in more than one	
piece of code, but not updatable in one place. If you	
find yourself typing out a number in more than one	
location, create a variable and grab the value from the	
variable instead.	
Is your project substantial and appropriate in terms of size? This is	20 points
difficult to pin down. Some projects (like Ian Sheeler's plant sim)	
represent a huge amount of coding and more limited set of	
content. Other projects might be easier to assemble from a	
development perspective but have more content. If you look at	
the range of past projects you'll see some that stand out as	
drastically lacking in substance. Don't be one of these.	10
Does your project include at least two well-constructed	10 points
embedded items of an appropriate type for the learning	
objective? Note that well-constructed means well written and	
includes appropriate feedback. Do you have a well organized timeline (related layers are near	20 points
each other, elements are where they are promised).	20 poirtis
Does your project include sound?	10 points
Is your project free of all syntax errors, and major logic errors	10 points
(operating in ways that are unexpected)?	- 1
Total	100 points