

## Applet SWF Files — A Workaround

Due to the current directory structure used by problem libraries within WeBWorK, including a problem with an applet from the National Problem Library via the library browser will not work. The PG code for the problem will be correctly loaded, but WeBWorK won't be able to locate the file containing the actual applet.

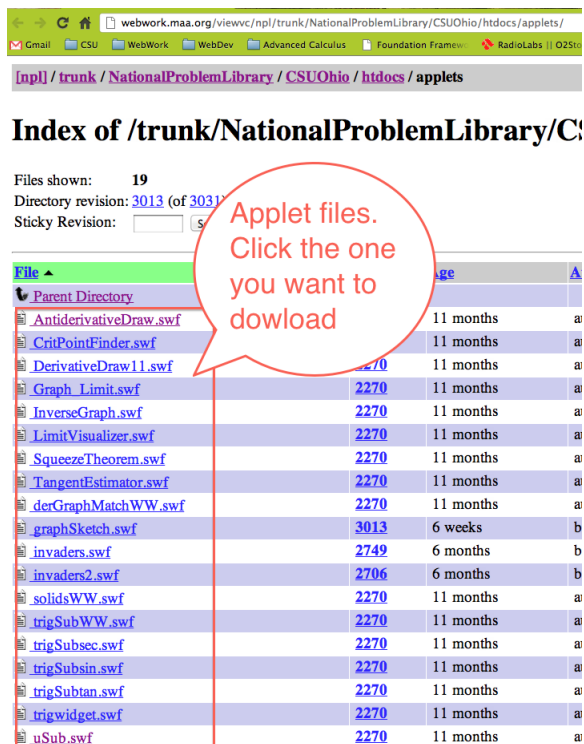
Every Flash applet needs access to a file ending with the `.swf` extension, which contains the graphical description and code executed by the applet. Currently, these files have to be manually uploaded to the correct directory in a WeBWorK installation. This problem is being looked into by the WeBWorK developers, and a definitive solution will soon be available.

In the meantime, please follow these instructions to use problems with Flash applets in WeBWorK assignments.

*Please notice that this procedure must be done only once, for a single course. Once the applet files have been uploaded to one course, they will be available to all courses.*

### Step 1. Download the SWF files.

1. Visit the web site:  
`http://webwork.maa.org/viewvc/npl/trunk/NationalProblemLibrary/CSUOhio/htdocs/applets/`
2. Click the applet file you want to download. Unfortunately, right now this has to be done individually for each of the applet files.



The screenshot shows a web browser window with the address bar containing `http://webwork.maa.org/viewvc/npl/trunk/NationalProblemLibrary/CSUOhio/htdocs/applets/`. The browser's address bar also shows the path `[npl] / trunk / NationalProblemLibrary / CSUOhio / htdocs / applets`. Below the address bar, the page title is `Index of /trunk/NationalProblemLibrary/CSUOhio/htdocs/applets/`. The page content shows a directory listing with the following information:

Files shown: 19  
Directory revision: 3013 (of 3031)  
Sticky Revision:  (s)

File	Size	Modified	Permissions
Parent Directory			
AntiderivativeDraw.swf		11 months	a
CritPointFinder.swf		11 months	a
DerivativeDraw11.swf	2270	11 months	a
Graph_Limit.swf	2270	11 months	a
InverseGraph.swf	2270	11 months	a
LimitVisualizer.swf	2270	11 months	a
SqueezeTheorem.swf	2270	11 months	a
TangentEstimator.swf	2270	11 months	a
derGraphMatchWW.swf	2270	11 months	a
graphSketch.swf	3013	6 weeks	b
invaders.swf	2749	6 months	b
invaders2.swf	2706	6 months	b
solidsWW.swf	2270	11 months	a
trigSubWW.swf	2270	11 months	a
trigSubsec.swf	2270	11 months	a
trigSubsin.swf	2270	11 months	a
trigSubtan.swf	2270	11 months	a
trigwidget.swf	2270	11 months	a
uSub.swf	2270	11 months	a

A red speech bubble with the text "Applet files. Click the one you want to download" points to the list of files.

3. Right-click the download link in the next page

webwork.maa.org/viewvc/npl/trunk/NationalProblemLibrary/CSUOhio/htdocs/z

npl / trunk / NationalProblemLibrary / CSUOhio / htdocs / applets / Antider

## Log of /trunk/NationalProblemLibrary/CSUO

Parent Directory

Links to HEAD: (view) (download) (as text) (annotate) - [select for diffs]

Sticky Revision:  Set

Revision 2270 - (view) (download) (as text) (annotate) - [select for diffs]  
 Modified Thu Aug 25 18:52:35 2011 UTC (11 months, 1 week ago) by aubreyja  
 File length: 33914 byte(s)  
 Diff to previous 2183

Moving some applets problems

Revision 2183 - (view) (download) (as text) (annotate) - [select for diffs]  
 Added Fri Aug 12 20:41:59 2011 UTC (11 months, 3 weeks ago) by bmargolius  
 Original Path: branches/flashdev/htdocs/applets/AntiderivativeDraw.swf  
 File length: 33914 byte(s)

4. Select **Save Link As...** in the popup. The text for this choice might be different, depending on your browser.

(v) (download) (as text) (annotate)

Set

(download) (as text) (annotate) - [select for diffs]

18:52:35 Open Link in New Tab aubreyja

18:52:35 Open Link in New Window

18:52:35 Open Link in Incognito Window

18:52:35 Save Link As...

18:52:35 Copy Link Address

18:52:35 Copy

18:52:35 Search Google for 'download'

18:52:35 Inspect Element

18:52:35 Look Up in Dictionary

18:52:35 Speech

18:52:35 New TextWrangler Document with Selection

18:52:35 Add to iTunes as a Spoken Track

to request diffs between any two revisions of this file. For each c

and 2183

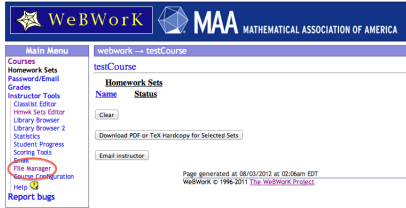
be a  Colored Diff

5. Repeat this process for all the applet files you want to download. Remember the folder where you saved the applets.

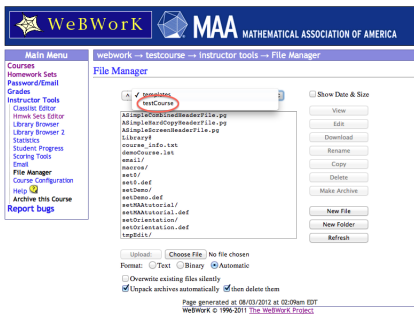
Name	Date Modified	Size	Kind
AntiderivativeDraw.swf	Today 12:17 AM	34 KB	SWF File
CritPointFinder.swf	Today 12:53 AM	41 KB	SWF File
derGraphMatchWW.swf	Today 12:55 AM	105 KB	SWF File
DerivativeDraw11.swf	Today 12:53 AM	34 KB	SWF File
Graph_Limit.swf	Today 12:53 AM	69 KB	SWF File
graphSketch.swf	Today 12:55 AM	56 KB	SWF File
Invaders.swf	Today 12:55 AM	377 KB	SWF File
Invaders2.swf	Today 12:56 AM	377 KB	SWF File
InverseGraph.swf	Today 12:54 AM	49 KB	SWF File
LimitVisualizer.swf	Today 12:54 AM	50 KB	SWF File
solidsWW.swf	Today 12:56 AM	51 KB	SWF File
SqueezeTheorem.swf	Today 12:54 AM	60 KB	SWF File
TangentEstimator.swf	Today 12:54 AM	42 KB	SWF File
trigSubsec.swf	Today 12:56 AM	35 KB	SWF File
trigSubsin.swf	Today 12:56 AM	35 KB	SWF File
trigSubtan.swf	Today 12:57 AM	35 KB	SWF File
trigSubWW.swf	Today 12:56 AM	43 KB	SWF File
trigwidget.swf	Today 12:57 AM	330 KB	SWF File
uSub.swf	Today 12:57 AM	76 KB	SWF File

## Step 2. Upload SWF files to your course.

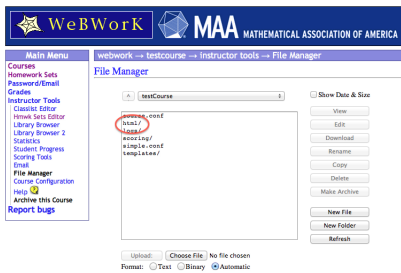
1. Log on to your course site in WeBWork. Click on **File Manager**.



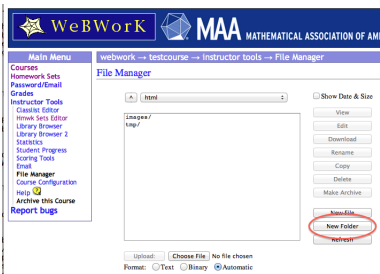
2. Go to your course directory in the file manager.



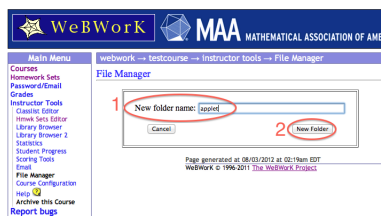
3. Double click the **html** folder.



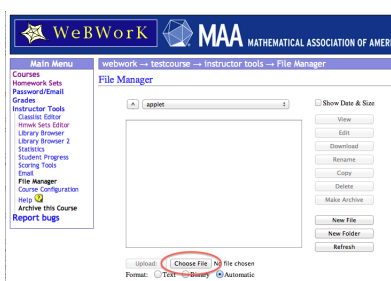
4. Click the **New Folder** button



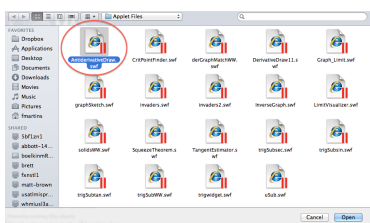
- Type **applets** for **New Folder Name** and then click the **New Folder** button.  
*It is very important that this folder is named applets.*



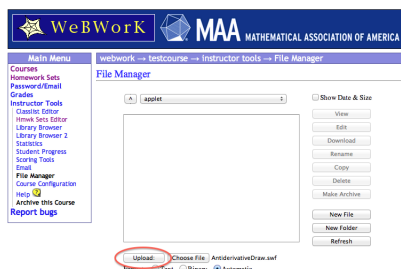
- Click the **Choose File** button.



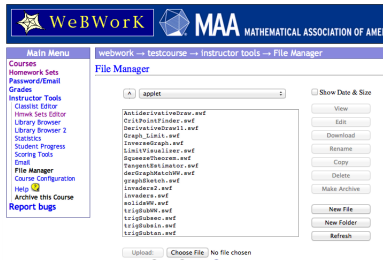
- Navigate to the folder where the applet files are saved and click on the applet file to be uploaded. Then click **Open**



- Click the **Upload** button.

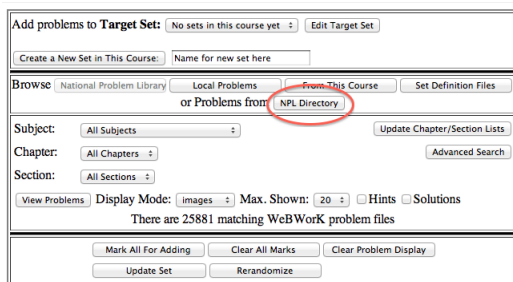


- Repeat the last three steps for all applet files you have downloaded. At the end of this process, this is what your file manager window will look like:

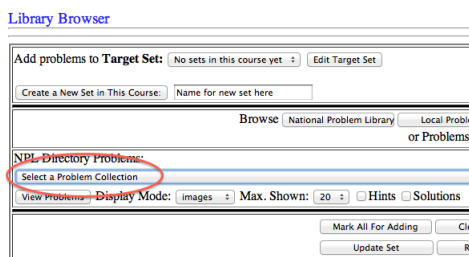


### Step 3. Test the installation

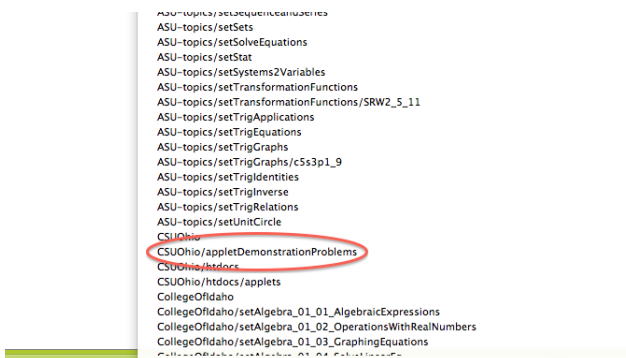
- Go to the Library Browser. Select **Advanced Search** and click the **NPL Directory** button.



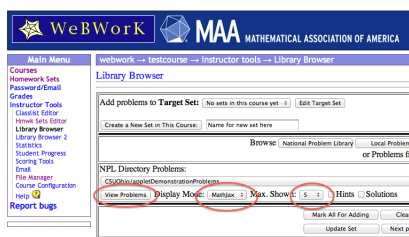
- Click the **Select a Problem Collection** button.



- A huge list of problem collections will appear. Press 'c', search for the item `CSUOhio/appletDemonstrationProblems` and click it.



4. Click the **View Problems** button. Applet files can take a while to download, so it is recommended that you select to view 5 problems per page. It also helps to select MathJax for the math format.



5. After a while, you should see the list of problems with the applets displayed (instead of a grey rectangle). Some of the applets will look “incomplete”. That is OK, the applets will now show correctly in the context of an actual problem set.

You can now create problem sets and add problems in the usual way. The applets should now display correctly.