

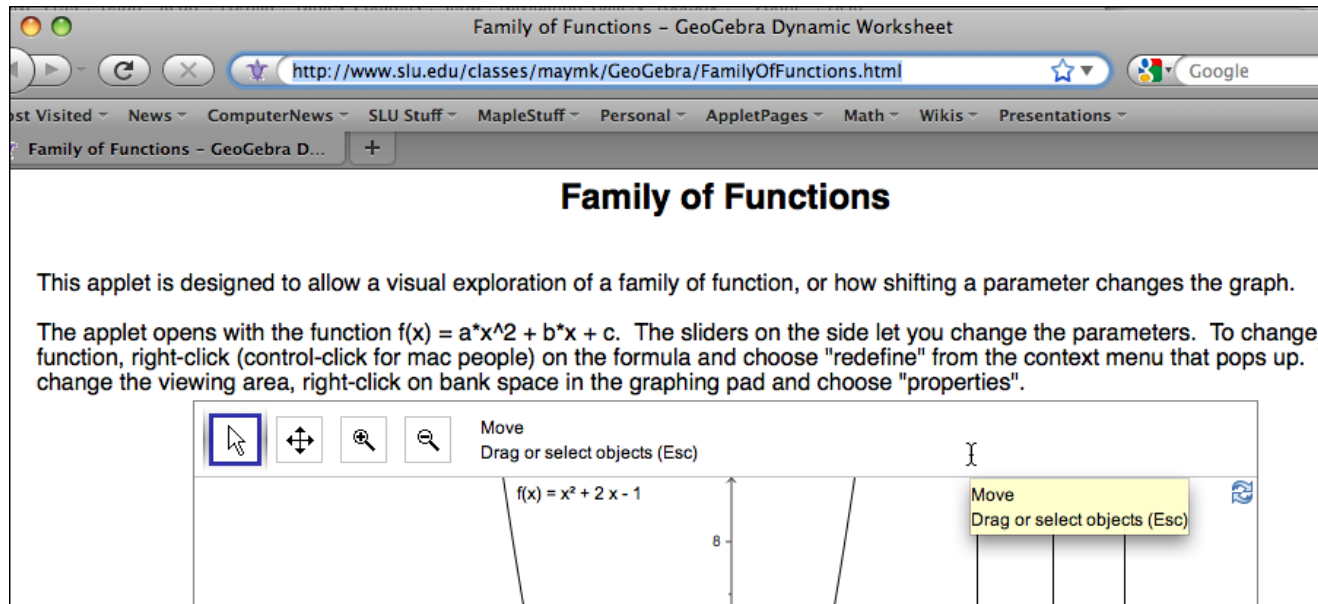
# prep11geogebra: Downloading applets and html pages with release 40

## Capturing GeoGebra applets from the web

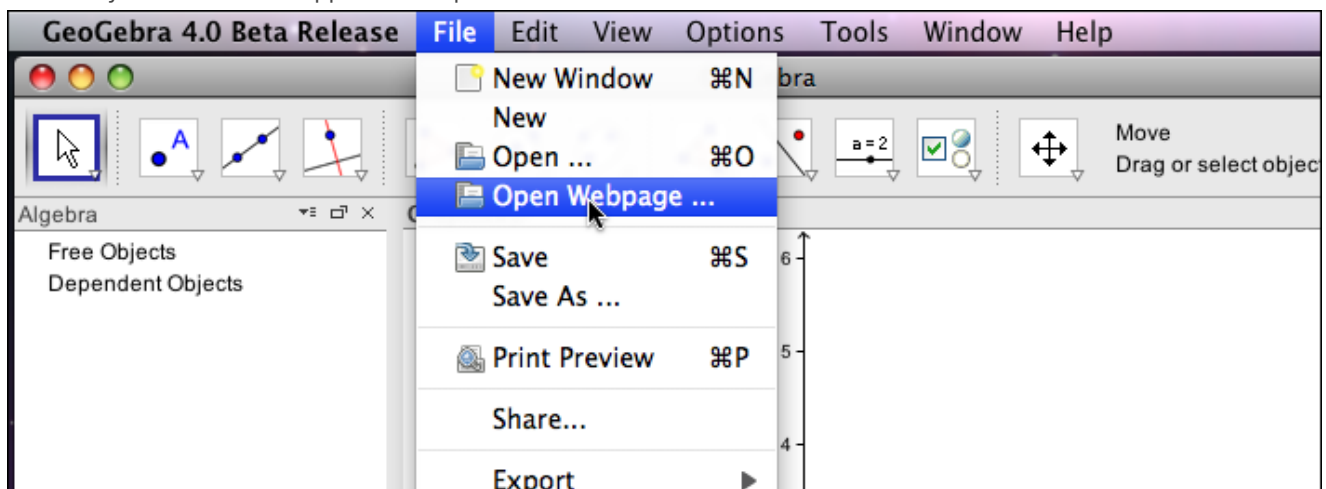
In the process of creating GeoGebra activities and turning them into applets and web pages, it is fruitful to be able to download the materials that others have created and to be able to examine those materials in detail. This tutorial walks you through that process.

### I) Capturing an activity from a web page.

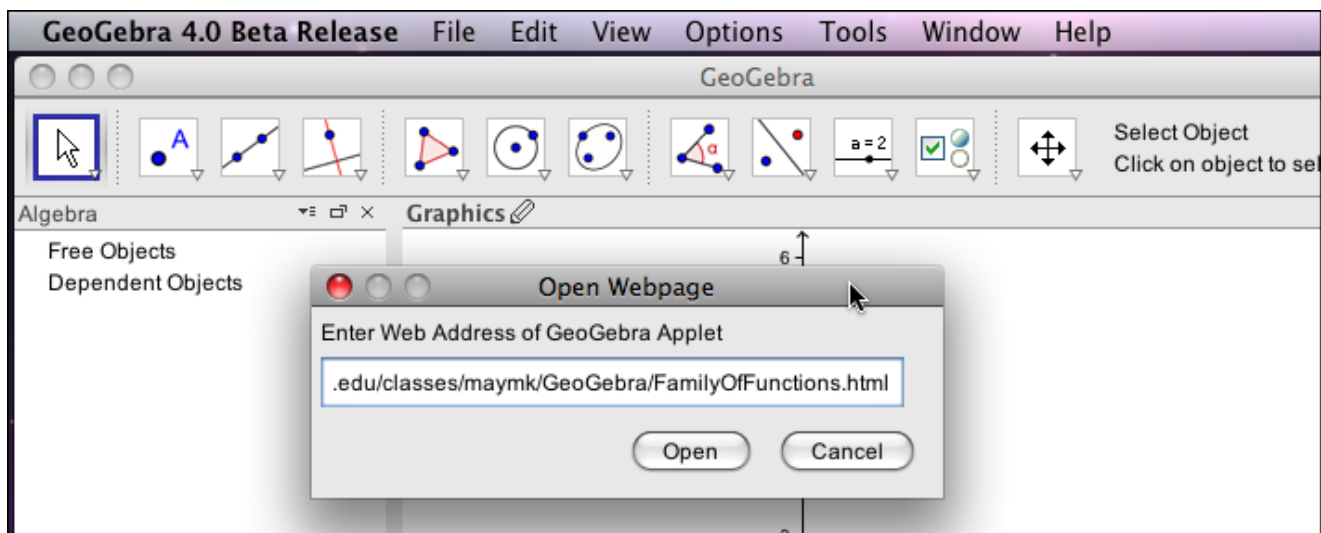
We will start with downloading the applet on a Family of Functions at <http://www.slu.edu/classes/maymk/GeoGebra/FamilyOfFunctions.html>



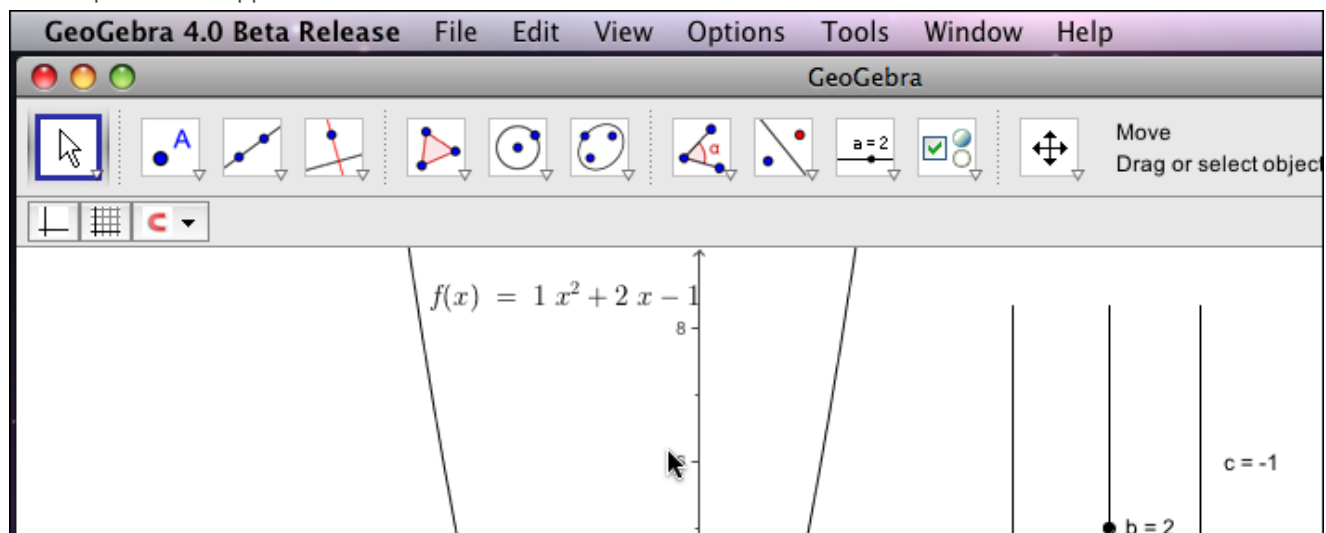
The easiest way to recover the applet is to open the url from within GeoGebra.



When you select "Open Webpage" from the File menu a dialog opens. By default it opens with the contents of the clipboard, so you should copy the url from your browser.

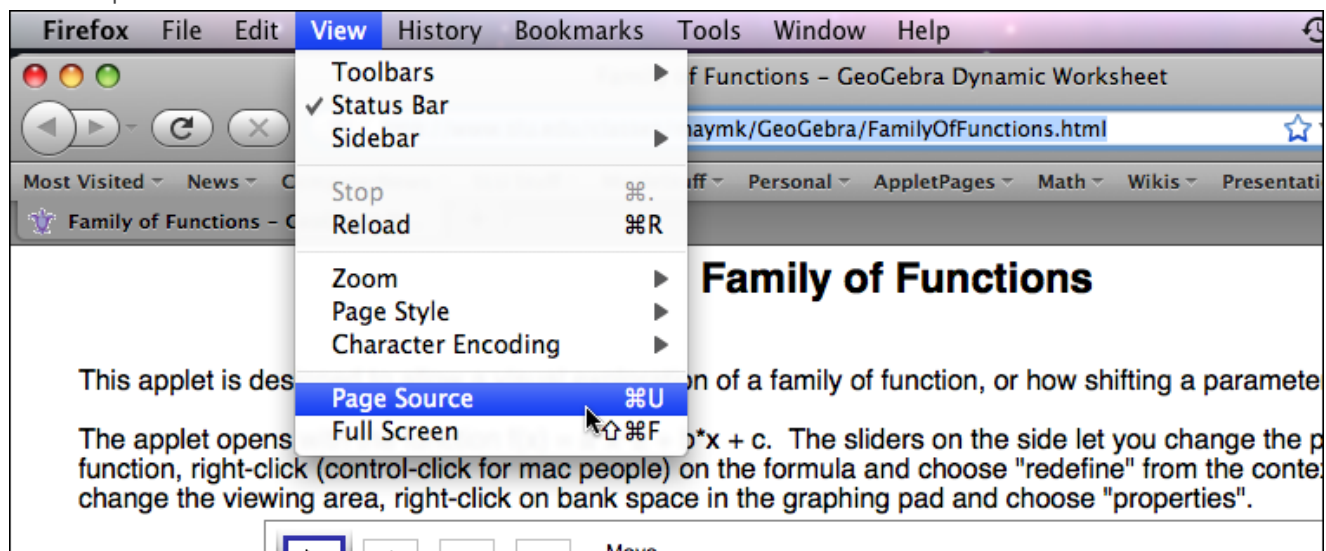


This captures the applet in GeoGebra.



## II) Collecting the rest of the webpage

Besides the applet proper, there is also the rest of the web page that it is embedded in. The easiest way is to use the page source option from the view menu.

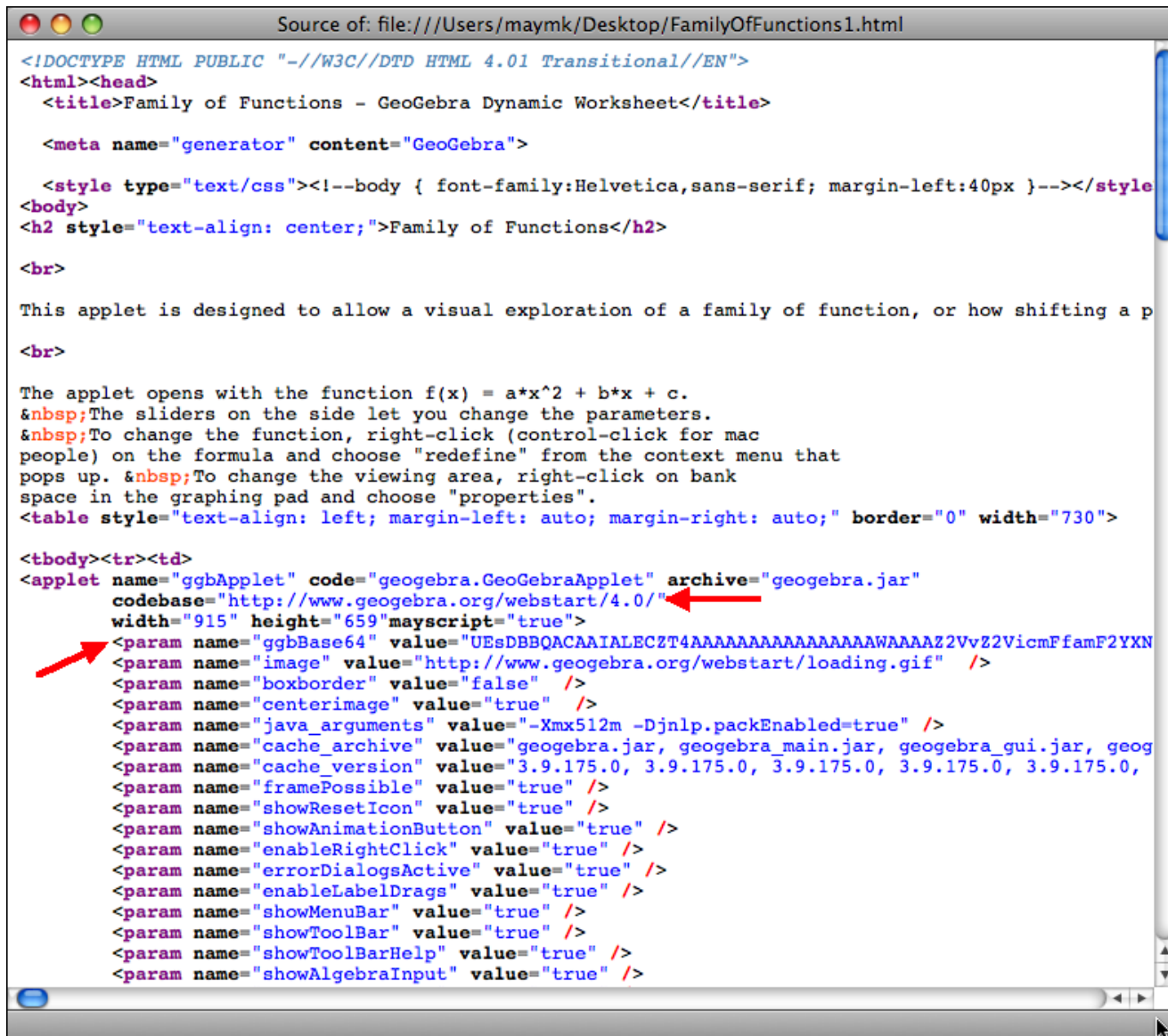


The resulting html file can be saved. Before we continue, we need to cover some technical details, since there are several

ways that GeoGebra activities are stored on the web. When thinking about an applet, it is useful to think of it as being built of three conceptually different components:

1. There is generally an html file. This is actually a text file that is read by a browser. It gives instructions to the browser.
2. For our purposes we need a copy of the GeoGebra applet that can be used. This comes in the form of a collection of jar files. The number of jar files depends on which version of GeoGebra you are using.
3. There is the equivalent of the application file. This is sometimes a ggb file.

The current preferred way to construct web pages with GeoGebra produces an all-in-one construction. In the applet tag there is a line that gives a codebase. That line tells the page where to find the jar files for GeoGebra. The default sends the server to [www.geogebra.org](http://www.geogebra.org) for the jar files. There is also a line that refers to ggbBase64. This line contains an encoding of the actual GeoGebra file.



```
Source of: file:///Users/maymk/Desktop/FamilyOfFunctions1.html

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html><head>
  <title>Family of Functions - GeoGebra Dynamic Worksheet</title>

  <meta name="generator" content="GeoGebra">

  <style type="text/css"><!--body { font-family:Helvetica,sans-serif; margin-left:40px }--></style>
</head>
<body>
<h2 style="text-align: center;">Family of Functions</h2>

<br>

This applet is designed to allow a visual exploration of a family of function, or how shifting a p

<br>

The applet opens with the function  $f(x) = a \cdot x^2 + b \cdot x + c$ .
 The sliders on the side let you change the parameters.
 To change the function, right-click (control-click for mac
people) on the formula and choose "redefine" from the context menu that
pops up.  To change the viewing area, right-click on blank
space in the graphing pad and choose "properties".
<table style="text-align: left; margin-left: auto; margin-right: auto; border="0" width="730">

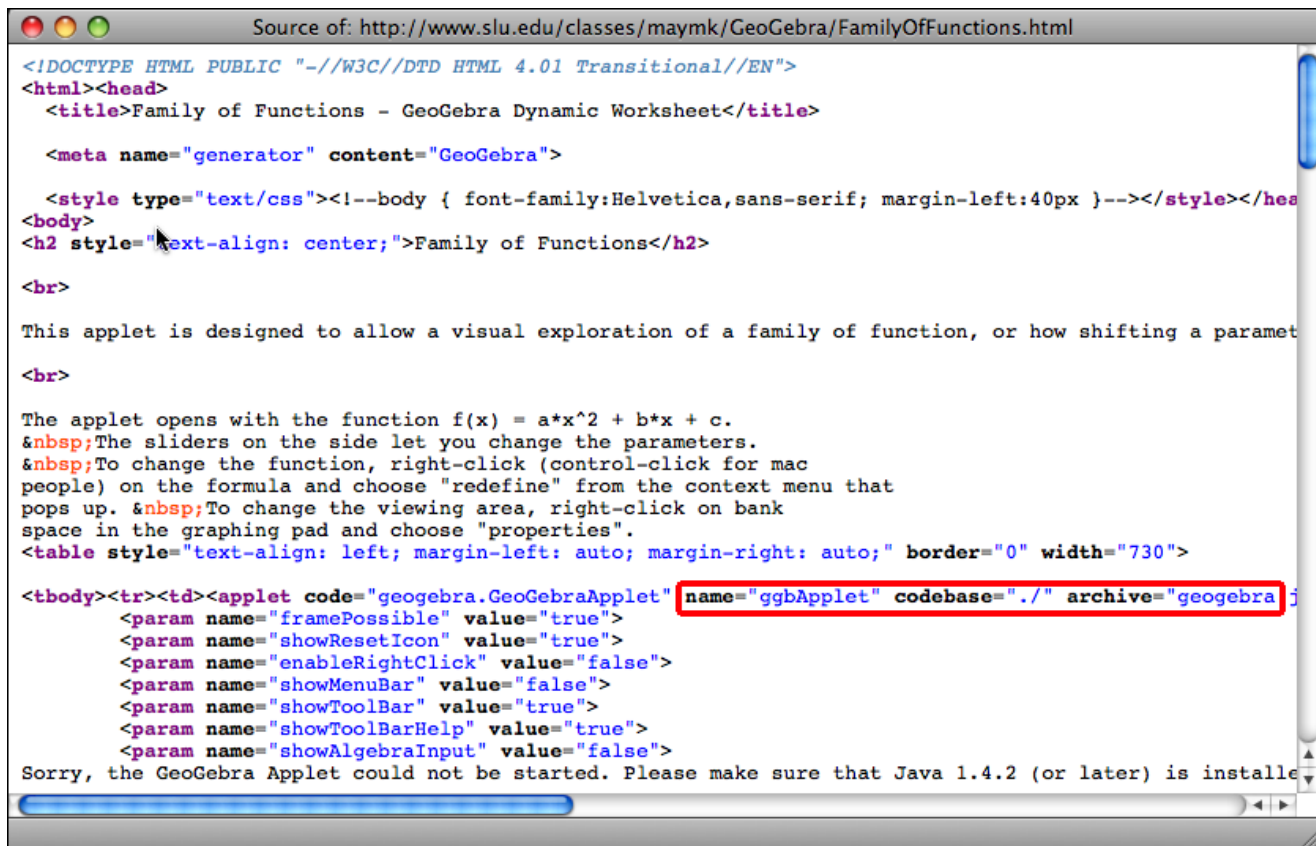
<tbody><tr><td>
<applet name="ggbApplet" code="geogebra.GeoGebraApplet" archive="geogebra.jar"
codebase="http://www.geogebra.org/webstart/4.0/"
width="915" height="659"mayscript="true">
<param name="ggbBase64" value="UESDBBQACAAIALECZT4AAAAAAAAAAAAAAAAAAAAAAZ2VvZ2VicmFfamF2YXN
<param name="image" value="http://www.geogebra.org/webstart/loading.gif" />
<param name="boxborder" value="false" />
<param name="centerimage" value="true" />
<param name="java_arguments" value="-Xmx512m -Djnlp.packEnabled=true" />
<param name="cache_archive" value="geogebra.jar, geogebra_main.jar, geogebra_gui.jar, geog
<param name="cache_version" value="3.9.175.0, 3.9.175.0, 3.9.175.0, 3.9.175.0, 3.9.175.0,
<param name="framePossible" value="true" />
<param name="showResetIcon" value="true" />
<param name="showAnimationButton" value="true" />
<param name="enableRightClick" value="true" />
<param name="errorDialogsActive" value="true" />
<param name="enableLabelDrags" value="true" />
<param name="showMenuBar" value="true" />
<param name="showToolBar" value="true" />
<param name="showToolBarHelp" value="true" />
<param name="showAlgebraInput" value="true" />

```

If we capture the source of a page constructed this way, we simply save the page source as a file on our local computer and open it.


Many GeoGebra applets on the web were created with an older construction where the three conceptual parts of the web page were separately stored. If you capture such a source page you want to make a couple of edits.



- 1) You want to edit the codebase line.
- 2) You want to open the applet in GeoGebra using the webpage approach and then export it as a dynamic webpage. Copy the ggbBase64 line from the applet tag and use that to replace the filename line of the tag in the old page.



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