ArcGIS 10.1 Installation Batch File User Guide

This guide is intended to help standardize GIS Software installations on managed and faculty/staff/student computers across the Yale University campus. If you have questions, or problems using this guide for the installation of ArcGIS 10.1, please do not hesitate to contact me.

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ArcGIS 10.1 Installation Batch File Pre-Installation Procedures

For All Users:

Supported Operating Systems & Service Packs

Please review the System Requirements documentation at:
http://resources.arcgis.com/en/help/system-requirements/10.1/index.html#/ArcGIS_10_1_for_Desktop/015100000002000000/

Use Windows Update to bring your Operating System up to the required Service Pack Version, if necessary.

Enabling/Installing .NET

Windows 7 Users

If you are running Windows 7, you must enable the .NET features that shipped with the OS.

1. Go to Start>Control Panel>Programs
2. Select "Turn Windows Features On or Off."
3. Expand the "Microsoft .NET Framework 3.5.1" Option.
4. Check both of the folders in this option and click OK to close out of the options.
5. Reboot your machine before continuing with your installation.

Windows XP or Vista Users

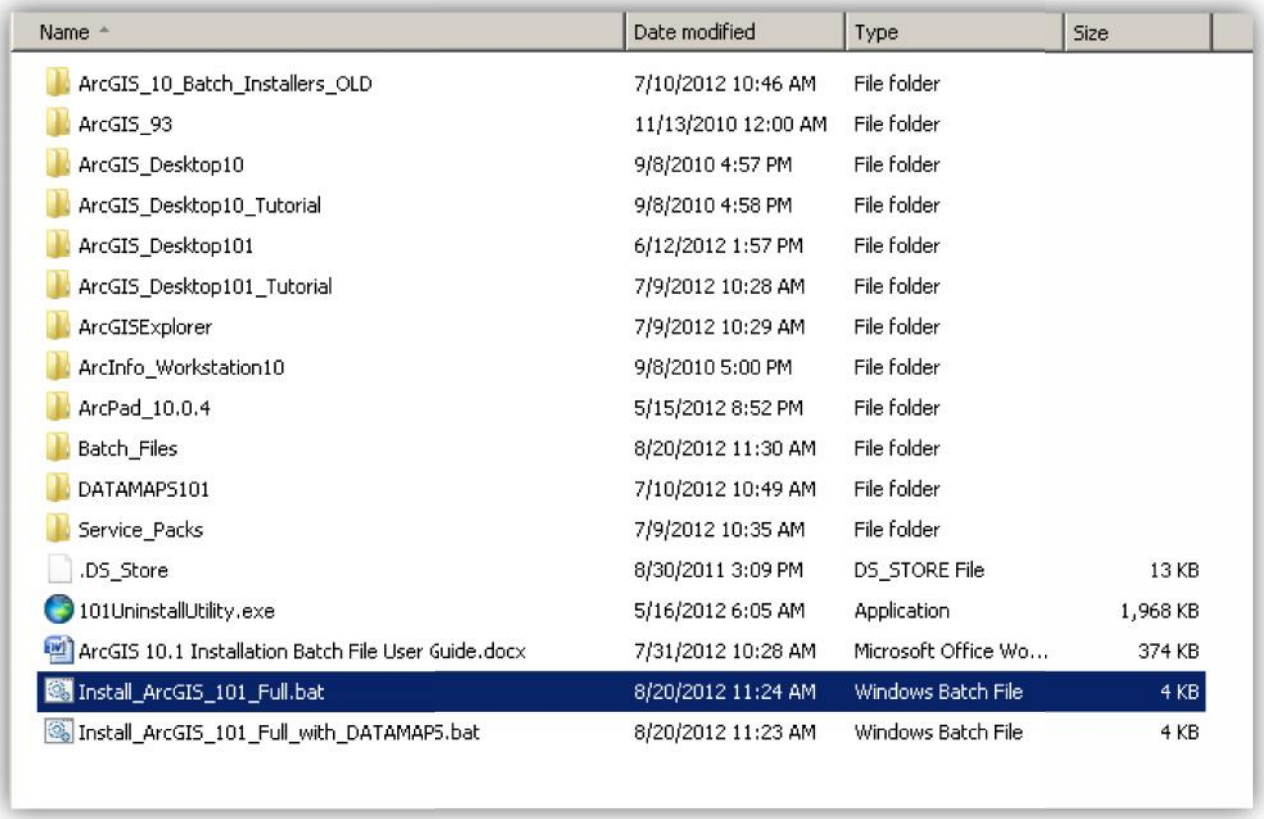
If you are running Windows Vista or XP, you must install Microsoft .net 3.5.1 with SP 1 before you start the batch file for ArcGIS 10.1 Install.

1. To install .NET 3.5 SP1 download the installer here: http://www.microsoft.com/downloads/details.aspx?FamilyID=ab99342f-5d1a-413d-8319-81da479ab0d7&displaylang=en
2. After you download the installer, make sure you run the installer so .NET 3.5 SP1 is installed.

Installing ArcGIS 10.1

Accessing the ArcGIS 10.1 Installation Batch Files

1. Make sure you are on campus and authenticated on the Yale network (connected through YaleSecure or Yale Wireless).
2. If you must use these installers from off-campus, you will need to connect to the Yale Network using VPN. If you run these installers from off campus, on all but the fastest internet connections, full installation can take several hours to complete.
3. **Ctrl-Click** this link: \\130.132.156.234\ArcGIS_10_Faculty_Staff
    a. ALTERNATIVELY: Launch a Windows Explorer (NOT Internet Explorer) window, type \\130.132.156.234\ArcGIS_10_Faculty_Staff into the address bar and press enter.
4. If prompted for your username and password enter it as:
    a. Username = "yale\netid" replacing netid with your netid.
    b. Password = Your NetID password
5. You should see something similar to this:



Name	Date modified	Type	Size
ArcGIS_10_Batch_Installers_OLD	7/10/2012 10:46 AM	File folder	
ArcGIS_93	11/13/2010 12:00 AM	File folder	
ArcGIS_Desktop10	9/8/2010 4:57 PM	File folder	
ArcGIS_Desktop10_Tutorial	9/8/2010 4:58 PM	File folder	
ArcGIS_Desktop101	6/12/2012 1:57 PM	File folder	
ArcGIS_Desktop101_Tutorial	7/9/2012 10:28 AM	File folder	
ArcGISExplorer	7/9/2012 10:29 AM	File folder	
ArcInfo_Workstation10	9/8/2010 5:00 PM	File folder	
ArcPad_10.0.4	5/15/2012 8:52 PM	File folder	
Batch_Files	8/20/2012 11:30 AM	File folder	
DATAMAPS101	7/10/2012 10:49 AM	File folder	
Service_Packs	7/9/2012 10:35 AM	File folder	
.DS_Store	8/30/2011 3:09 PM	DS_STORE File	13 KB
101UninstallUtility.exe	5/16/2012 6:05 AM	Application	1,968 KB
ArcGIS 10.1 Installation Batch File User Guide.docx	7/31/2012 10:28 AM	Microsoft Office Wo...	374 KB
Install_ArcGIS_101_Full.bat	8/20/2012 11:24 AM	Windows Batch File	4 KB
Install_ArcGIS_101_Full_with_DATAMAPS.bat	8/20/2012 11:23 AM	Windows Batch File	4 KB

Removing Previous Versions of ArcGIS

You must first completely remove all previous versions of ArcGIS that might conflict with your installation. The installation Shared Folder includes a utility called **101UninstallUtility.exe** that will test your system for version conflicts and remove any previous version of ArcGIS

1. To run the 101UninstallationUtility.exe, simply run the package and click the “Uninstall” button.
2. Uninstalling a complete ArcGIS package can take as long as an hour. Go have coffee.

Determine the Correct Installation Batch File to use for your needs

There are two different ArcGIS Installation Batch Files in the shared folder. The choice of which installer to use is determined by whether you want to copy the 8gb Esri Data & Maps for ArcGIS 10.1 package, as well. Below is an overview of each of the batch files.

Install_ArcGIS_101_Full.bat – This batch file will do a complete installation of the ArcGIS Suite of software, including all licensed extensions (Spatial Analyst, Geostatistical Analyst, Data Interoperability Extension, etc…). This batch file will also install the correct version of the required SQL Server Native Client, the ArcGIS Tutorial Materials (Data and files for completing tutorials contained in the ArcGIS Help System), the latest version of ArcGIS Explorer and any ArcGIS Patches and Service Packs currently available.

Install_ArcGIS_101_Full_with_DATAMAPS.bat – This batch file will install the exact same package as the above batch file, but adds a batch process to copy the Esri Data & Maps for ArcGIS Desktop 10.1 from the shared folder to your computer at C:\ DATAMAPS101. For more information about the data included in Esri Data and Maps for ArcGIS Desktop 10.1, see:

http://resources.arcgis.com/en/help/main/10.1/#/What_is_ESRI_Data_and_Maps/001z00000002000000/

The Esri Data & Maps for ArcGIS 10.1 package is nearly 8gb in size, so that using this Installation Batch File can add an additional hour to hour and half, depending upon network speeds, to the installation process.

ESRI_DATA_MAPS_COPY.bat – This batch file contains only the batch process to copy the Esri Data & Maps for ArcGIS Desktop 10.1 from the shared folder to your computer at C:\ DATAMAPS101. It can be run independently, with or without the installation of ArcGIS Desktop 10.1 (Note that some contents of the Esri Data & Maps package are not backwards compatible with previous versions of ArcGIS, including ArcGIS 10.0).

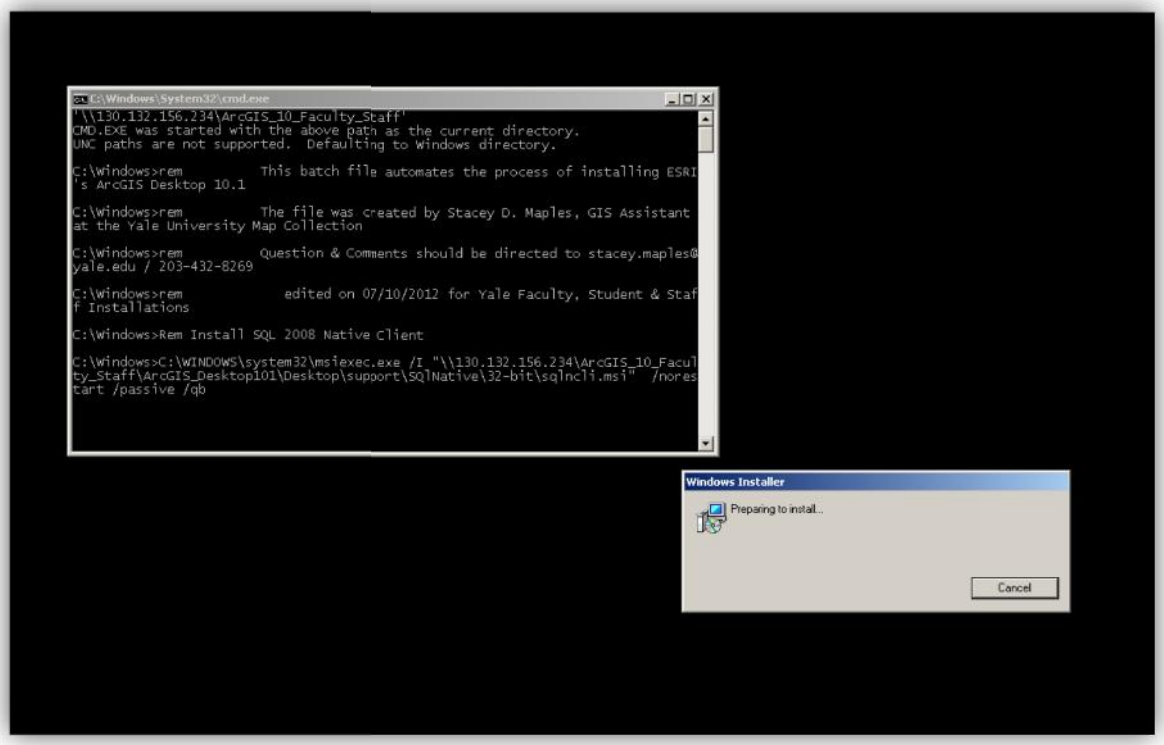
The Esri Data & Maps for ArcGIS 10.1 package is nearly 8gb in size, so that using this Installation Batch File can take an hour to hour and half, depending upon network speeds.

Running the ArcGIS 10.1 Installation Batch File

1. First, determine the appropriate Installation Batch File to use for your needs.
2. Right-click on the appropriate *.bat file and select “Run as Administrator.”
3. It’s ok to run this batch file. If any warning messages pop up asking if the file should be run, click on “ok” or “yes”.

4. There will be several pop-up windows that come up during the installation procedure to indicate the progress, but the installation should proceed unattended. Be patient.

5. The installation can take up to 3 hours, or so, depending on whether you chose to include the Esri Data & Maps for ArcGIS 10.1.



ArcGIS 10.1 Post-Installation Procedures

There are a number of Post-Installation steps that must be taken to enable your ArcGIS 10.1 Software for use. This is particularly important if you are doing an installation on machines that:

- Users will not have Administrative Rights on; or
- You are creating an image to push out to machines that will be "Frozen."

This document provides an overview of the post-installation procedures necessary once you have successfully run the Installation Batch File for ArcGIS 10.1. These steps provide necessary functionality, as well as a consistent user experience across campus. The steps include:

Critical Post-Installation Procedures

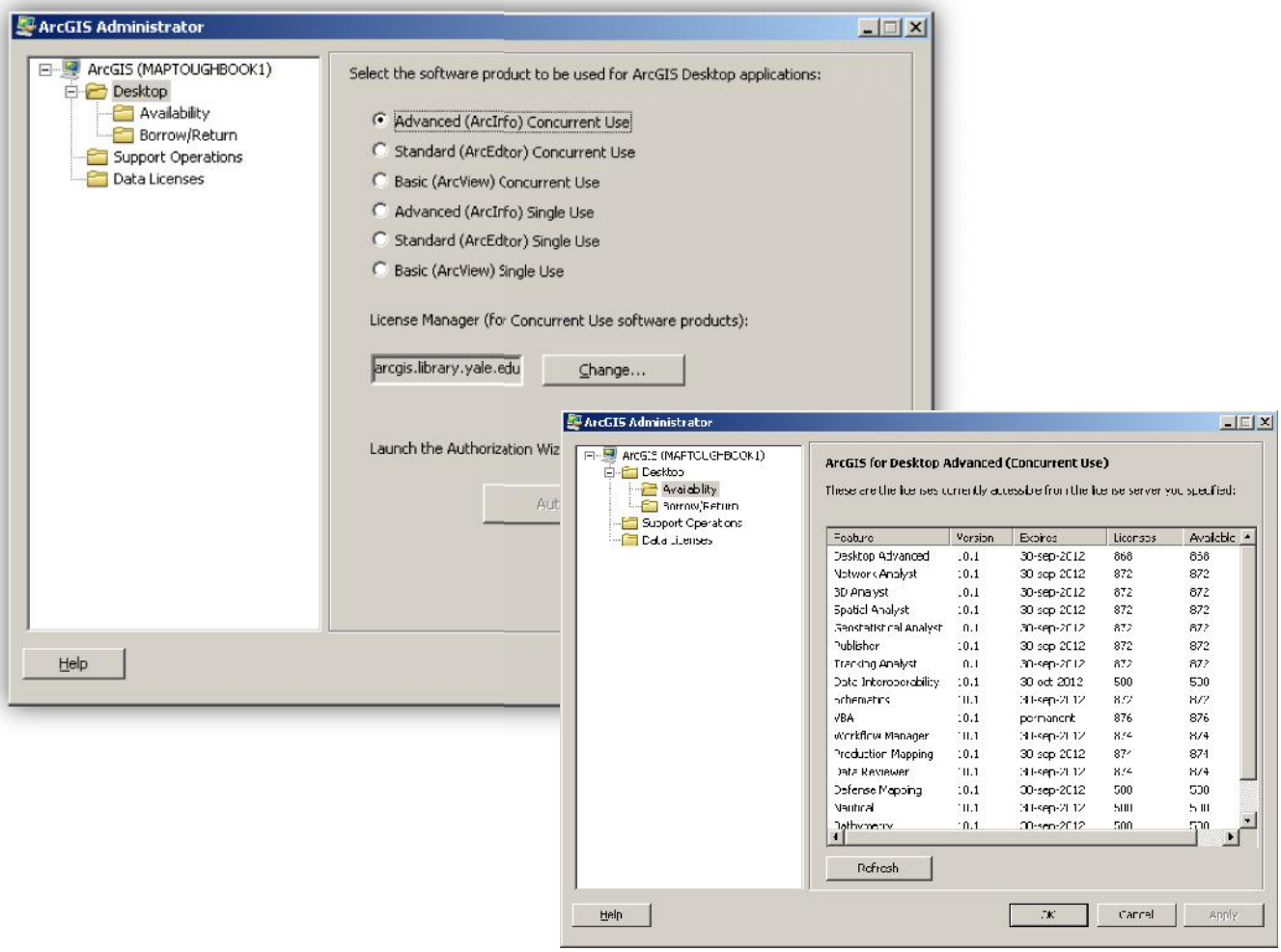
- Confirming the Product Version using ArcGIS Administrator (critical)
- Testing communication with the ArcGIS 10.1 License Manager using ArcGIS Administrator (critical)
- Enabling Extensions in ArcGIS Desktop, using the Extensions Manager (critical)
- Setting Relative Paths as the Default Setting for all Map Documents (critical)

Strongly Suggested Post-Installation Procedures

- Connecting to local drives in ArcCatalog (strongly suggested)
- Preparing the default user interface (strongly suggested)

Selecting the Product Version & Enabling communication with the ArcGIS 10.1 License Manager using ArcGIS Administrator (critical)

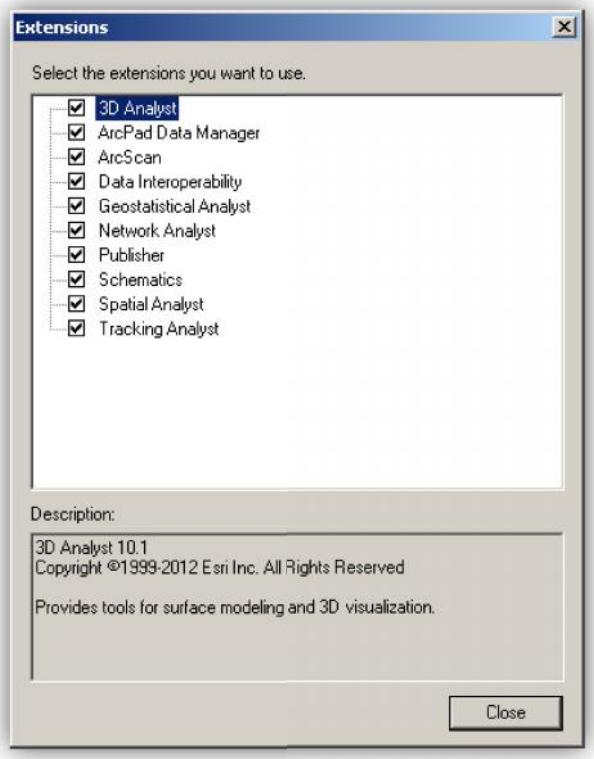
1. In Windows, go to Start>All Programs>ArcGIS>**ArcGIS Administrator** to launch the **ArcGIS Administrator Wizard**.
2. Click on the Desktop Folder, in the panel on the left.
3. Check that the **Advanced (ArcInfo) Concurrent Use** option is checked.
4. Check that the **License Manager** is already defined as '**arcgis.library.yale.edu**' in the option beneath the Software Product options. If it is not, click on the **Change** button and enter **arcgis.library.yale.edu**.
5. Click Apply.
6. Click on the Availability Folder in the left panel.
7. If ArcGIS is correctly configured, you should see a list of available licenses and their expiration dates in the panel on the right.
8. Click OK to apply the settings and close ArcGIS Administrator.



Enabling Extensions in ArcGIS Desktop, using the Extensions Manager (critical)

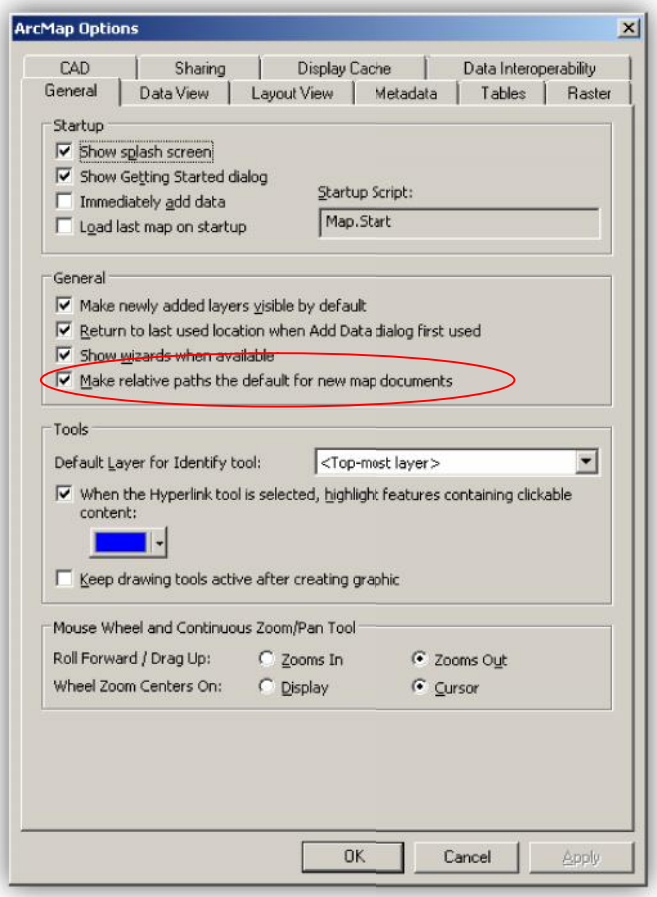
Once you have completed the ArcGIS Administration Wizard setup, you are ready to launch the ArcGIS Software and Enable the Extensions for use.

1. In Windows, go to Start>All Programs>ArcGIS>**ArcMap 10.1** to launch the **ArcMap Application.**
2. Click OK to open a Blank Map.
3. On the **Main Menu**, go to **Customize>Extensions** to open the **Extensions Manager**.
4. Check all of the extensions and click Close.
5. All Extensions should be available for use in **ArcMap**, now.
6. Close ArcMap and repeat the above steps for **ArcCatalog 10**, **ArcScene 10.1** and **ArcGlobe 10**.



Setting Relative Paths as the Default for all Map Documents (critical)

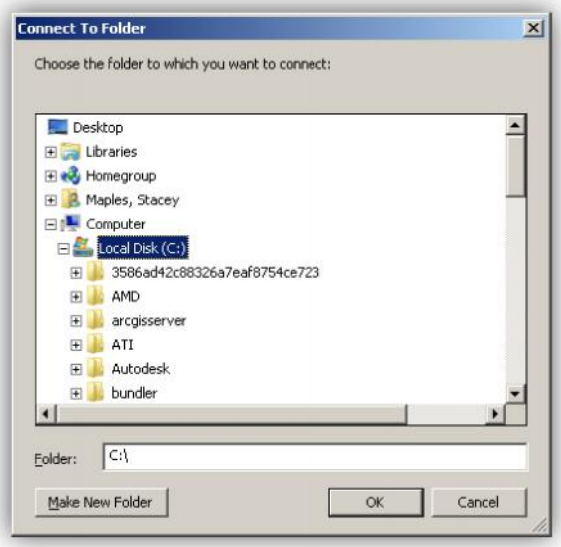
Setting the "Relative Paths" option for Map Documents changes the default methods for creating connections to data sources in ArcGIS. By default, ArcGIS uses absolute paths, which can create problems for those who need to move from one machine to another frequently, or who want to share their projects with another user. Using absolute paths uses the complete path to the data referenced in a Map Document, and therefore often makes a GIS project useable only on that machine. Relative Paths allows a user to create project folders, within which, all Data, Map Documents and other materials are contained. With relative paths, as long as the project folder and its contents are moved as a single unit, connections from the Map Document to the data sources are maintained, making project far more portable.



1. In Windows, go to **Start>All Programs>ArcGIS>ArcMap 10.1** to launch the **ArcMap Application.**
2. Click **OK** to open a Blank Map.
3. On the **Main Menu**, go to **Customize>ArcMap Options**...
4. Under the **General Tab**, in the **General Section**, check the "**Make relative paths the default for new map documents**" option.
5. Click **OK**

Connecting to local drives in ArcCatalog (strongly suggested)

ArcCatalog no longer installs with active connections to any local drives (including the C:\ Drive). At a minimum it is suggested that you make a connection to the C:\ drive and any optical and shared storage drives that might exist in your lab.



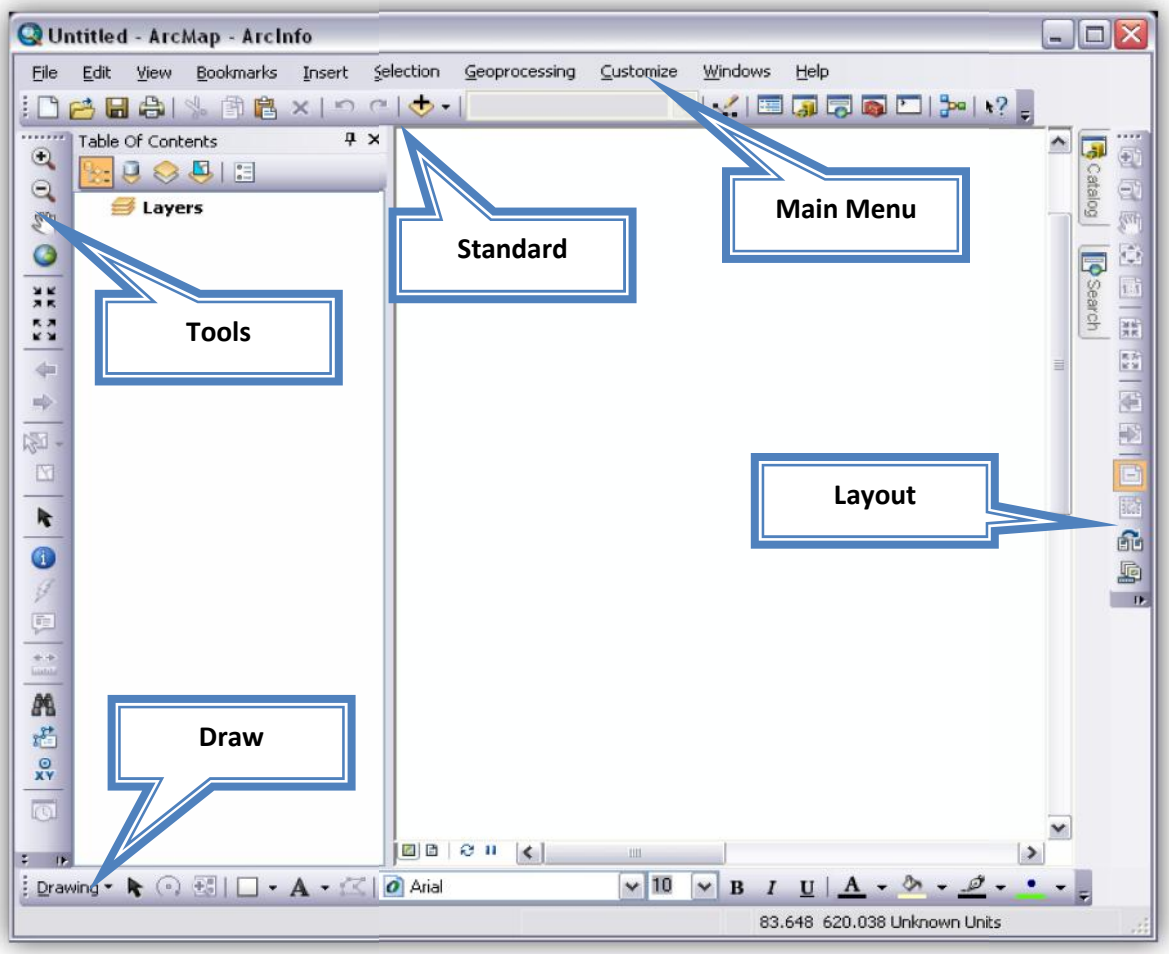
1. In Windows, go to Start>All Programs>ArcGIS>**ArcCatalog 10.1** to launch the **ArcCatalog Application.**
2. In the **Catalog Tree** Panel (at the left side of the application), **right-click** on the **Folder Connections** item and select **Connect Folder...**

3. Select an appropriate **folder** or **drive** and click **OK** to create a permanent connection in the **ArcGIS Suite**.
4. Repeat the above steps for any other folders or drives you wish to create connections to.

Preparing the default user interface (strongly suggested)

The default toolbar configuration for ArcMap is not optimal for many users

1. In Windows, go to Start>All Programs>ArcGIS>**ArcMap 10.1** to launch the **ArcMap Application.**
2. On the **Main Menu**, go to Customize>**Customize Mode...**
3. In the **Toolbars Tab**, Check the following Toolbars to enable:
   - Draw
   - Layout
   - Main Menu
   - Standard
   - Tools
4. Click Close
5. Drag and Drop the Toolbars to recreate the configuration shown below.
6. Close **ArcMap**



Borrowing a License from the License Manager to Allow "Roaming" Use, Disconnected from the License Server

The Version of ArcGIS you are installing requires license authentication against a license server within the Yale University network. This means that, when "off-campus" users must use VPN to connect to the license server and use ArcGIS. This can present problems for users who are not able to maintain network connectivity, but require access to ArcGIS for fieldwork, etc. At ArcGIS Version 10, you are able to "Borrow" a license for a period of time determined by the University License Administrator. ***It is suggested that you DO NOT borrow a license while connected to the Yale University Network using VPN, since the borrowed will subsequently only function properly if you are connected to VPN.*** The Borrow period for arcgis.library.yale.edu is set to time out on the license expiration date, or 365 days from Borrow Date, whichever is first. The procedure for borrowing a license is as follows:

1. Be sure that you have completed the steps for **Selecting the Product Version & Testing communication with the ArcGIS 10.1 License Manager using ArcGIS Administrator (critical)**
2. In Windows, go to Start>All Programs>ArcGIS>**ArcGIS Administrator** to launch the **ArcGIS Administrator**.
3. Click on the **Borrow/Return** item, in the left panel
4. Check every box you see and **click Apply**.
5. Wait for the Borrow/Return Progress Dialog to finish.
6. Click OK to close the ArcGIS Administrator.

You should now be able to use the full ArcInfo functionality, independent of the Yale Network, until the license expiration date (Sept 30annually), or 365 days from Borrow Date, whichever is first.

