CS 535 Object-Oriented Programming & Design
Fall Semester, 2010
Doc 4 Starting VisualWorks
Sept 2 2010

Reference

VisualWorks Application Developer's Guide, doc/AppDevGuide.pdf in the VisualWorks installation. Chapter 1 The VisualWorks Environment.

Reading

VisualWorks Application Developer's Guide, doc/AppDevGuide.pdf in the VisualWorks installation.

Chapter 1 The VisualWorks Environment.

Chapter 2 Programming in VisualWorks (minus the sections Loading Code Libraries & Paintng a GUI)

Learning Smalltalk

Smalltalk language syntax

Smalltalk Programming Environment

Smalltalk Class Library

Object-oriented thinking

   This is the hardest part

Smalltalk culture

Versions of Smalltalk

VisualWorks

VisualAge for Smalltalk

Squeak

Dolphin

Smalltalk X

Smallscript (.NET Smalltalk)

Bytecode & VMs

Smalltalk is compiled to a bytecode for a virtual machine

VisualWorks has VM's for:
Windows
Macintosh
Unix/Linux

VisualWork's virtual machine (VM) uses a JIT to compile bytecodes

Parts of VisualWorks

Executable Virtual Machine (visual, visual.exe)

  This is the VM that interprets Smalltalk bytecode

visual.sou

  Source code for most of class library

visual.cha

  Source code for changes & new classes

  Does not exist until after you first use VisualWorks

visual.im

  Bytecode of sources that are executed

  At first the image will appear to be an IDE for Smalltalk

Before Starting VisualWorks

Make a copy of visual.im

You will need it later

Starting VisualWorks on Windows

Method 1

Drag and drop the image file on the Visual application or visual.exe

Method 2

Double click on the image file

The first time you do this you may get a dialog asking for the application to run the image. Select visual. You will have to find it first. It is in the bin directory.

Starting VisualWorks on Macintosh

Method 1

Drag and drop the image file on the visual application

Method 2

Double click on the image file

Starting VisualWorks with UNIX command line

Type:

    visual imageFilename &

where you need to replace imageFilename with the actual name of the image file you wish to run

Your path has to be set to include the program visual

Three Button Mouse

VisualWorks uses three logical buttons

Select button
Selects objects and text

Operate button
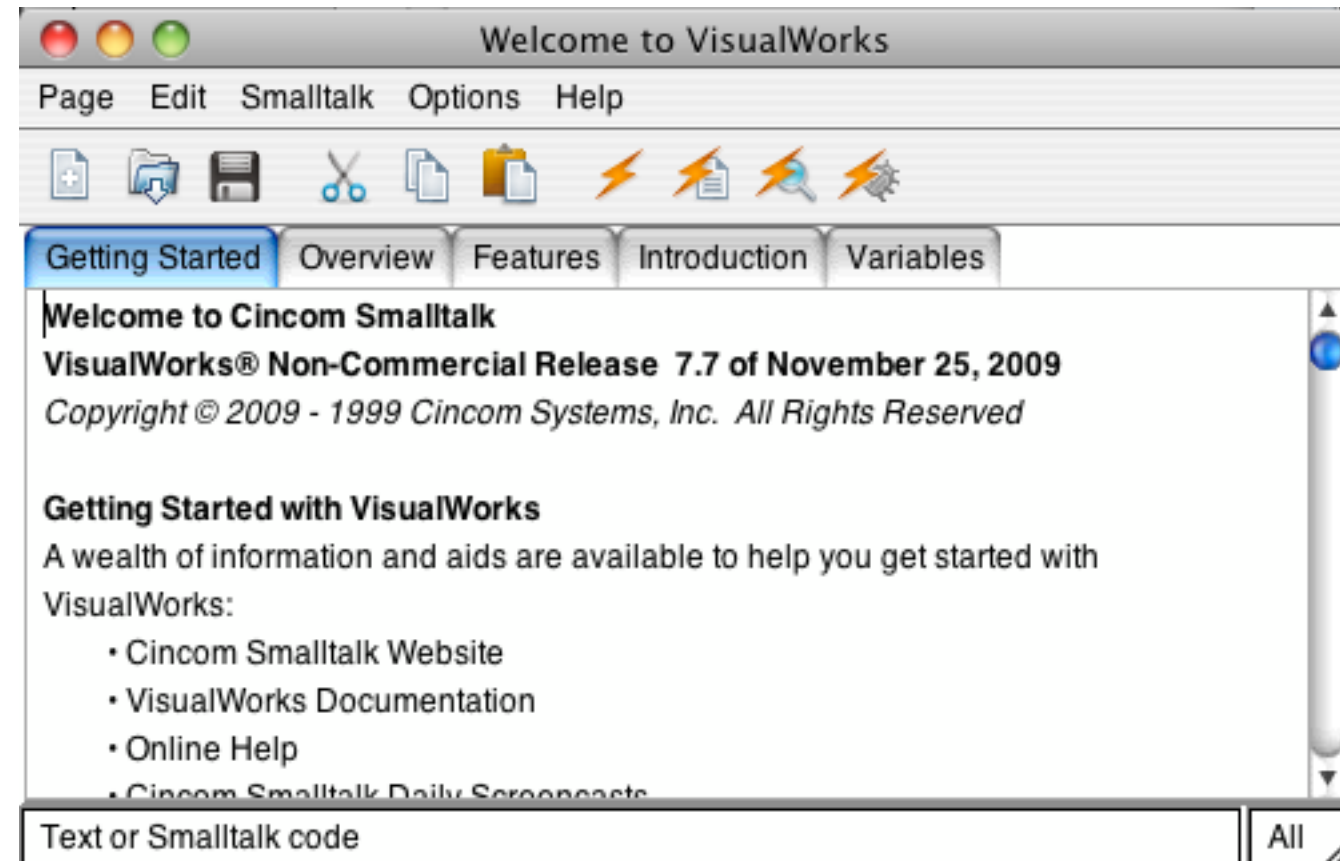Opens a menu with context-sensitive commands
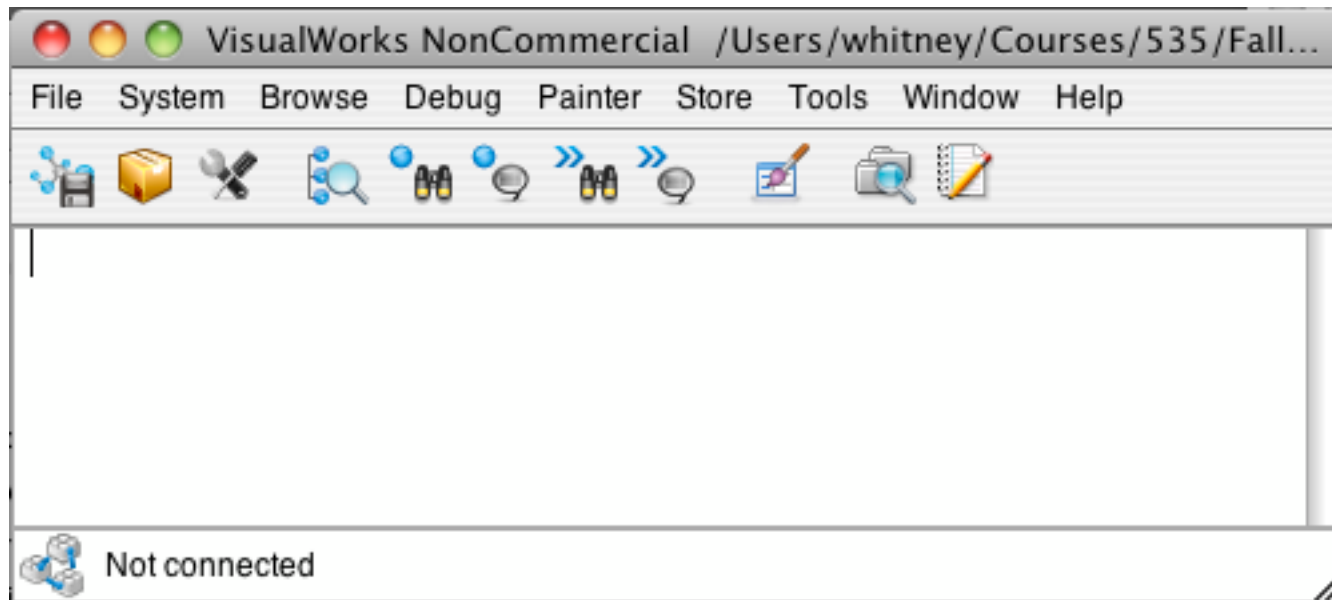
Window button
Opens a menu with window commands

	3-Button Mouse	2-Button Mouse	1-Button Mouse
Select	Left button	Left button	Button
Operate	Right button	Right button	<Ctrl>+ Button
Window	Middle button	<ctrl>+Left button	<command>+Button

Windows on Startup

Launcher

Workspace

Demo