CS 535 Object-Oriented Programming & Design
Fall Semester, 2013
Doc 4 Starting VisualWorks
Sept 3 2013

Reference

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

Learning Smalltalk

Smalltalk language syntax

Smalltalk Programming Environment

Smalltalk Class Library

Object-oriented thinking

   This is the hardest part

Smalltalk culture

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Versions of Smalltalk

VisualWorks

Squeak

Pharo

VisualAge for Smalltalk

Dolphin

Smalltalk X

Smallscript (.NET Smalltalk)

Amber

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

Download Visualworks

Follow instructions at:

http://www.cincomsmalltalk.com/main/products/visualworks/download/

Starting VisualWorks on Windows

visual.exe - in bin directory of VisualWorks installation

visualnc.im - in image directory

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.

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Locked Image Problem - Mac & PC
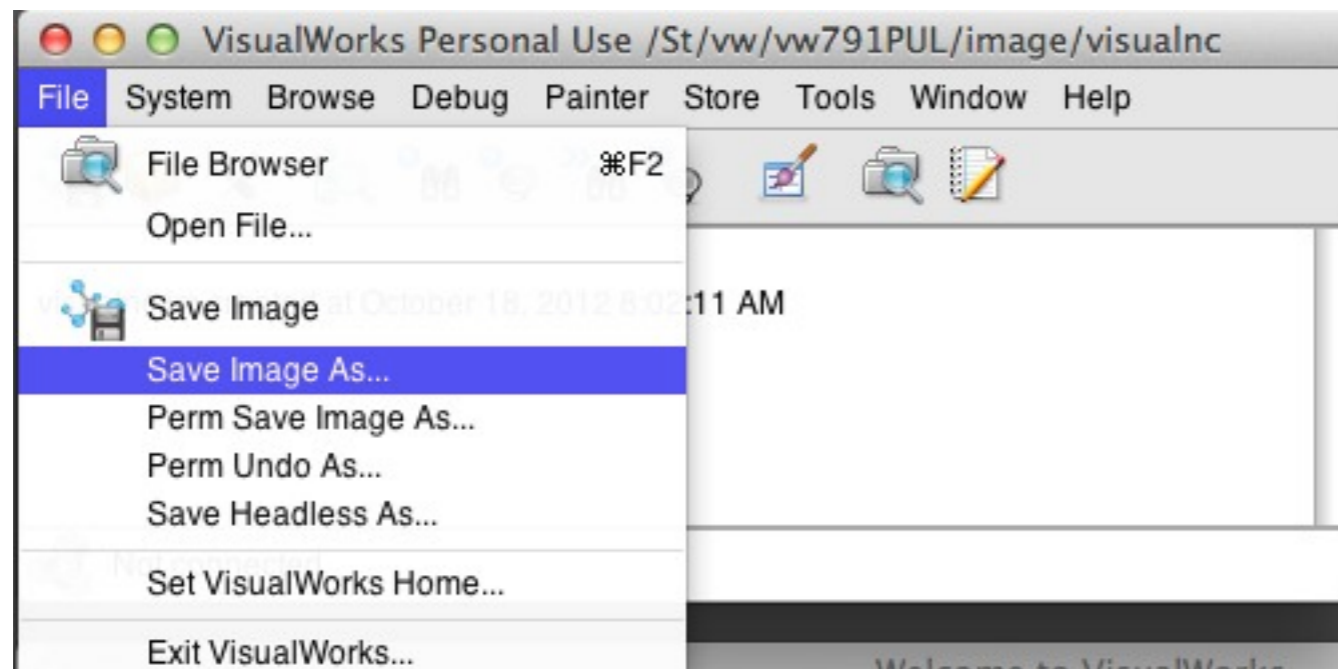
visualnc.im file is read only

Will not be able save changes

Need to make a read/write copy

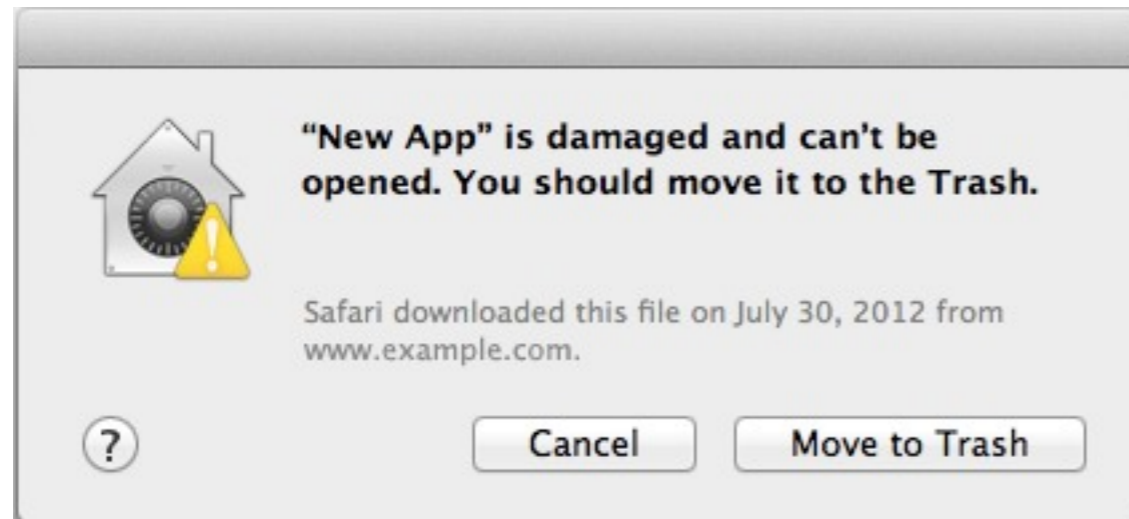# One Way to make Read/Write Copy

Start VisualWorks

Save Image As...

The saved image should be read/write

Mac Mountain Lion Security Issue
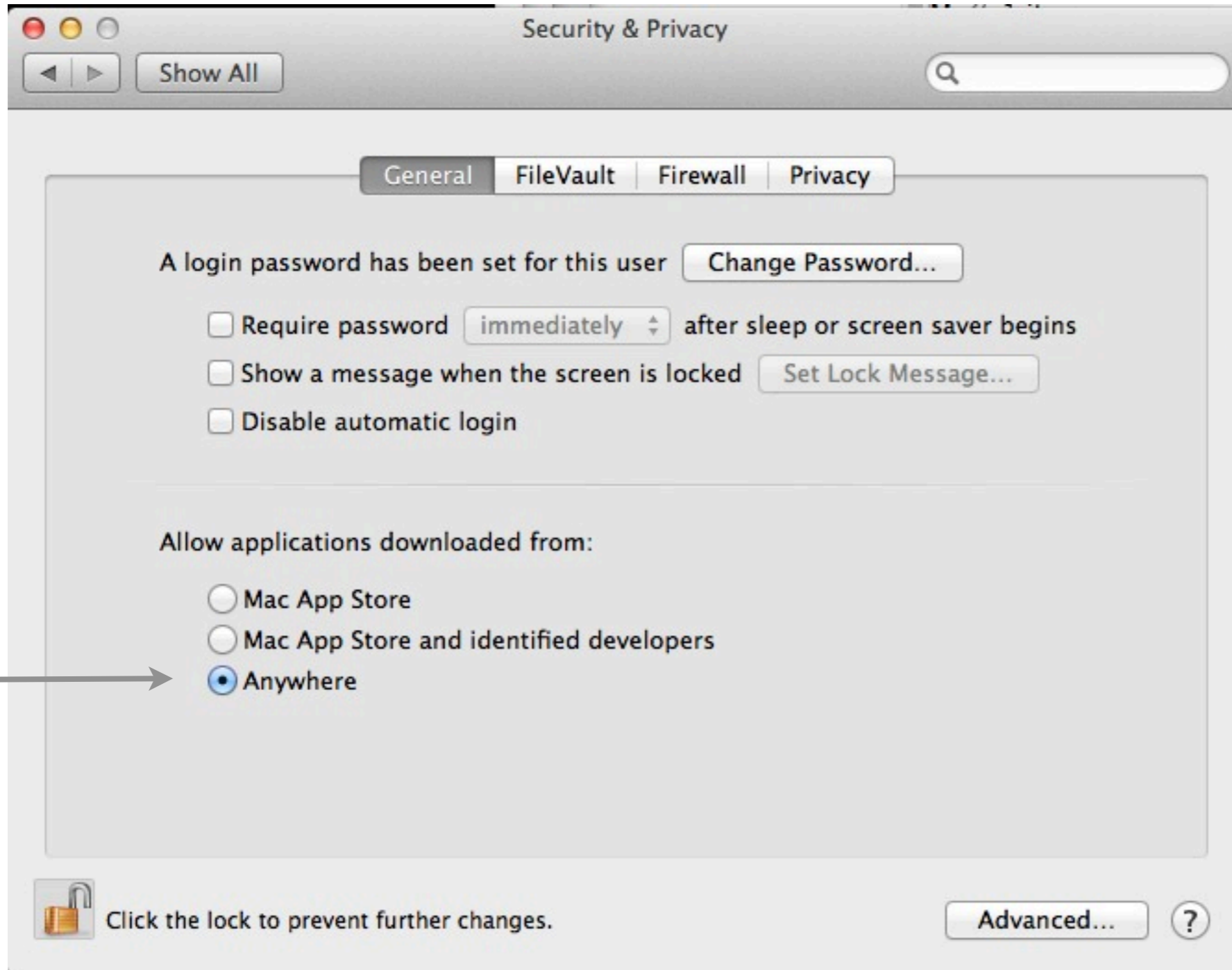
After mounting ISO clicking on

installMacOSX

Results in error message like:

"New App" is damaged and can't be opened. You should move it to the Trash.

Safari downloaded this file on July 30, 2012 from www.example.com.

Cancel   Move to Trash

 Where "New App" is replaced with "InstallMacOSX"

Mac Mountain Lion Security Issue

Need to change Security Setting then can run installer

Starting VisualWorks on Macintosh

Method 1

Drag and drop the image file on the visual application

Method 2

Double click on the image file

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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

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The Desktop short cut

Installer creates a desktop short cut to launch VisualWorks Smalltalk

Avoid using it

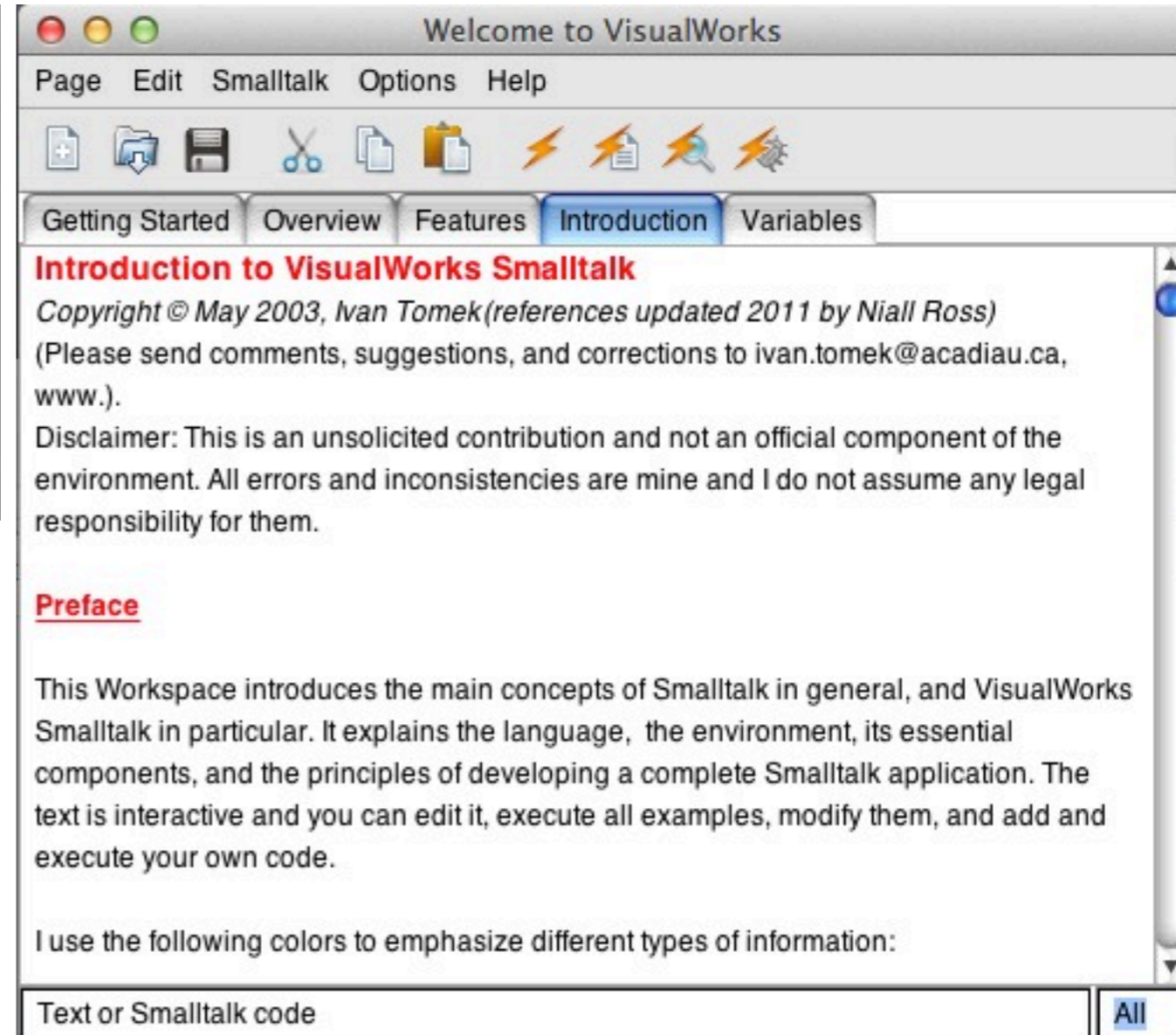Will cause you problems later

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The Desktop short cut

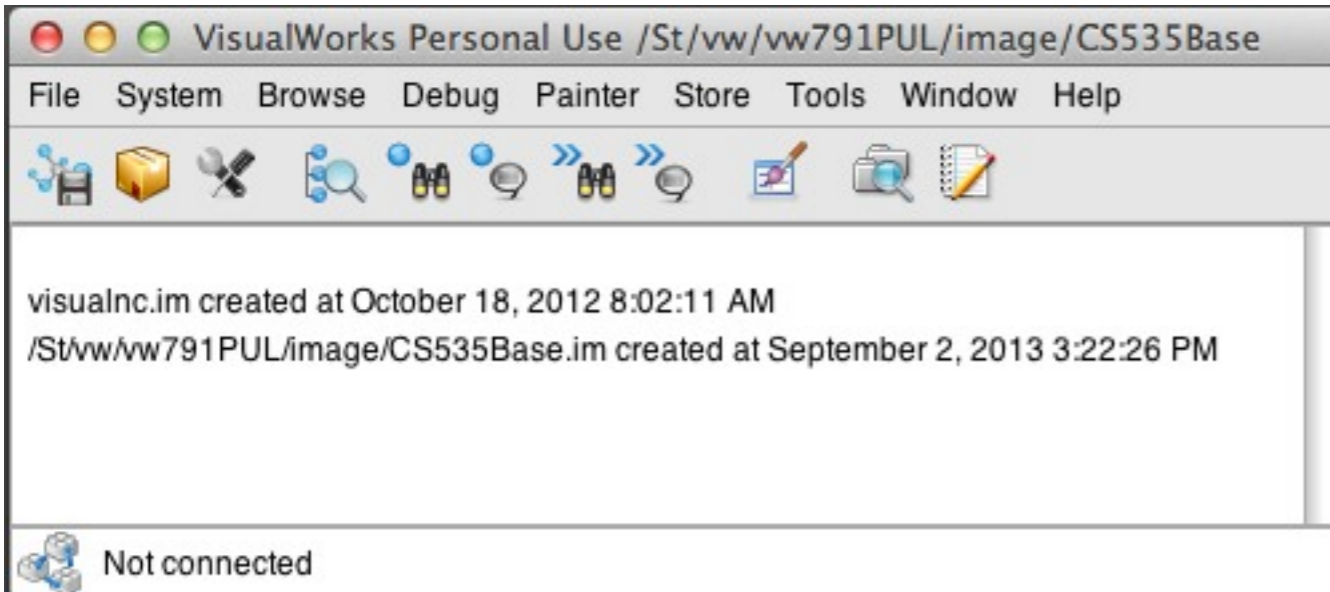Do not select this option

Windows on Startup

Launcher

Workspace

Demo