How to script....
Digital Micrograph Scripting Handbook

by

Bernhard Schaffer
Preface

Introduction

Digital Micrograph is an image processing and acquisition software by Gatan Inc.\(^1\)\(^2\) primarily but not exclusively used in connection with Electron Microscopy. The software features a simplified programming language commonly referred to as DM scripting.

Over the recent years I have been compiling task oriented tutorials on the use of DM scripting into this handbook. The book is not meant as a course book and it does not offer a well-structured way of learning scripting. It is aimed at no particular audience or experience level but rather concentrates on certain tasks and how one could achieve them. The different tutorials may differ in complexity but my aim was to cover enough of the basics in each of them to help beginners to understand what is going on. However, some basic understanding of computer programming such as the concept of variables, if-conditions and loops is assumed. There is no specific order of the tutorials, and the reader – whether beginner or expert – is invited to jump to any topic of current interest. Total beginners, however, might want to start with the first introductory tutorial.

This handbook is also under permanent review and I would appreciate any feedback, corrections or suggestions. Though I can’t promise immediate response, I am trying to be rather responsive to emails. I may best be contacted at how.to.dms@tavernmaker.de.

DigitalMicrograph versions

The tutorials have been created over a time period of several years during which DigitalMicrograph and its scripting language has constantly evolved. For this reason, not all tutorials will work as described in all versions of DigitalMicrograph. Whenever I was aware of a version difference, I have commented the text accordingly, but I might have missed out on some points. Also: Some script commands are only available if certain plugins are installed in addition to the base version of DigitalMicrograph. Again, I have tried to highlight such commands whenever used.

Disclaimer

All tutorials are written based on my own knowledge, experience and understanding of the scripting language, which I have used but not created. As a result, all statements in this book do not necessarily have to be the full truth and I might have misunderstood things. I am also not taking any responsibility for any problems arising by following up the instructions in the tutorials. Furthermore, Gatan Inc., although very helpful in general, has not cross-checked any of these tutorials and is in no way responsible for the content.

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Thanks

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This version of the e-book has been created on 19/08/2015 for personal use.

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\(^1\) Official Gatan Inc. homepage: http://www.gatan.com/
\(^2\) A full basic version of Digital Micrograph can be obtained from the Gatan Homepage.
Quick link: http://getDM.tavernmaker.de
# Table of contents

Preface ........................................................................................................................................................................... 2

Introduction ...................................................................................................................................................................... 2

DigitalMicrograph versions ............................................................................................................................................... 2

Disclaimer ........................................................................................................................................................................ 2

Copyright ......................................................................................................................................................................... 2

Thanks ............................................................................................................................................................................. 2

Table of contents ............................................................................................................................................................ 3

How to start ...................................................................................................................................................................... 5

How to copy an image ...................................................................................................................................................... 9

How to handle exceptions and error dialogs ................................................................................................................ 12

How to use simple dialogs .......................................................................................................................................... 14

How to use numbers as bit-masks ................................................................................................................................. 17

How to perform a task on all open images ................................................................................................................... 20

How to open and save images ...................................................................................................................................... 22

How to import and export data in binary format ......................................................................................................... 25

How to read and write text files .................................................................................................................................. 27

  Variant A - Accessing text files by low-level API commands. ............................................................................... 27

  Variant B - Accessing text files by streaming commands. .................................................................................... 28

How to do batch processing in a folder .......................................................................................................................... 31

How to address data and subsets of data ....................................................................................................................... 35

How to use intrinsic variables (icol, irow and other i’s) .............................................................................................. 39

How to address data and subsets of data – beyond the 3rd dimension ....................................................................... 44

How to plot a graph in parametric form ........................................................................................................................ 47

How to use image filters ............................................................................................................................................... 49

  Real-Space filters - masking ........................................................................................................................................ 49

  Real-Space filters – warping (coordinate transformation) ....................................................................................... 51

  Real-Space filters – local neighbourhood and kernel convolutions ................................................................... 52

Fourier-Space filters ....................................................................................................................................................... 53

How to use image and persistent tags ............................................................................................................................ 55

How to use the TagGroup object ................................................................................................................................ 58

How to change the image colour scheme (CLUT) ........................................................................................................... 62

How to extract LineProfiles with a script ...................................................................................................................... 64

How to run a script in the background, allowing user interaction ................................................................................ 66

How to do ‘live updates’ of images ................................................................................................................................. 69

How to have a script listening to image and image display events ............................................................................. 72

How to display new images in a customized way .......................................................................................................... 77

How to use keys and keystrokes .................................................................................................................................. 80

  Variant A - Checking if a certain key is pressed ................................................................................................. 80

  Variant B – Attaching key-listeners to images ............................................................................................... 81

How to create a periodically performed task ................................................................................................................ 83

  Periodic tasks using loops and a delay time .................................................................................................. 83

  Periodic tasks using time-triggered tasks .................................................................................................. 83

How to run multiple background threads from one script ........................................................................................... 87

How to synchronize multiple background threads in a script ..................................................................................... 90

  The signal object .................................................................................................................................................... 91

  The critical section (blocking object) ............................................................................................................. 93

  The Mutex object (blocking object) ............................................................................................................. 96

  The Semaphore object (blocking object) .................................................................................................. 97

How to run and stop background threads from a Ulframe dialog .................................................................................. 99

How to synchronize a Ulframe dialog from a background thread .............................................................................. 103

How to get coordinates of ROI selected areas .......................................................................................................... 107

How to make circular selections .................................................................................................................................. 110
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circular selections using masks</td>
<td>110</td>
</tr>
<tr>
<td>Circular selections using closed ROIs</td>
<td>111</td>
</tr>
<tr>
<td>How to zoom a display to a ROI</td>
<td>113</td>
</tr>
<tr>
<td>How to create simultaneous ROIs</td>
<td>120</td>
</tr>
<tr>
<td>How to restrict ROI positions</td>
<td>122</td>
</tr>
<tr>
<td>- Restrict size of a rectangle-ROI to multiples of a unit</td>
<td>123</td>
</tr>
<tr>
<td>- Restrict placement of a point-ROI along a circle</td>
<td>123</td>
</tr>
<tr>
<td>- Restrict placement of a point-ROI to local maxima positions</td>
<td>124</td>
</tr>
<tr>
<td>How to display layer-specific ROIs in a 3D image</td>
<td>125</td>
</tr>
<tr>
<td>How to change the displayed section of a LinePlot in a LinePlot display</td>
<td>129</td>
</tr>
<tr>
<td>How to shift slices in a LinePlot with respect to each other</td>
<td>134</td>
</tr>
<tr>
<td>How to get an as-is copy of the displayed image</td>
<td>137</td>
</tr>
<tr>
<td>How to sort windows positions within the application</td>
<td>140</td>
</tr>
<tr>
<td>How to accurately measure elapsed time</td>
<td>142</td>
</tr>
<tr>
<td>How to run a script with optional commands on PCs without those</td>
<td>143</td>
</tr>
<tr>
<td>How to run scripts from within a script</td>
<td>145</td>
</tr>
<tr>
<td>How to build a custom dialog</td>
<td>149</td>
</tr>
<tr>
<td>How to format a custom dialog</td>
<td>152</td>
</tr>
<tr>
<td>How to change dialog elements during display</td>
<td>154</td>
</tr>
<tr>
<td>- Action #1: Catching a dialog element</td>
<td>157</td>
</tr>
<tr>
<td>- Action #2: Updating dialog element value</td>
<td>157</td>
</tr>
<tr>
<td>- Action #3: Changing element labels or titles</td>
<td>158</td>
</tr>
<tr>
<td>- Action #4: Changing graphic elements</td>
<td>158</td>
</tr>
<tr>
<td>- Action #5: Enabling and disabling dialog elements</td>
<td>158</td>
</tr>
<tr>
<td>How to use dialog tabs, panels and sub-dialogs</td>
<td>159</td>
</tr>
<tr>
<td>How to adjust a dialog depending on the front most image</td>
<td>164</td>
</tr>
<tr>
<td>How to use interfaces</td>
<td>166</td>
</tr>
<tr>
<td>How to use Object Lists</td>
<td>170</td>
</tr>
<tr>
<td>How to sort lists in DigitalMicrograph</td>
<td>173</td>
</tr>
<tr>
<td>How to use sentry objects</td>
<td>176</td>
</tr>
<tr>
<td>How to use event listeners as sentry objects</td>
<td>178</td>
</tr>
<tr>
<td>The tutorial “How to sort lists in DigitalMicrograph</td>
<td>179</td>
</tr>
<tr>
<td>How to get mouse clicks</td>
<td>183</td>
</tr>
<tr>
<td>- Solution 1 – auxiliary mouseClick functions</td>
<td>183</td>
</tr>
<tr>
<td>- Solution 2 – catching events</td>
<td>185</td>
</tr>
<tr>
<td>How to send emails from a DigitalMicrograph script</td>
<td>187</td>
</tr>
<tr>
<td>How to display a floating palette in both GMS 1.x and GMS 2.x</td>
<td>189</td>
</tr>
<tr>
<td>How to play the Game of Life</td>
<td>193</td>
</tr>
<tr>
<td>How to have an outside program trigger a DigitalMicrograph script</td>
<td>199</td>
</tr>
<tr>
<td>Index</td>
<td>202</td>
</tr>
</tbody>
</table>
Index

S
SBACKGROUNDS .................................. 66, 69

A
Acquire() ........................................... 90
AddMainThreadPeriodicTask() .................. 63
AddMainThreadPeriodicTask() .................. 199
Alloc() ........................................... 69, 87, 99, 103, 149, 176
ApplicationAddEventListener() ............... 164
ApplicationAddEventListener() ............... 77
ApplicationGetEventMap() ...................... 77
ApplicationRemoveEventListener() ............ 77, 164
Asc() ............................................. 31, 80
B
batch processing .................................. 20
Binary() ........................................... 17, 72
binning .......................................... 39
Blue ................................................. 62
Break .............................................. 12

C
CalcHighResSecondsBetween() ................. 142
CalcOSSecondsBetween() ....................... 142
ChooseMenuItem() ................................ 137
Chr() ............................................... 31, 80
CloseFile() ....................................... 25, 27
CloseGadgetPanel() ................................ 189
CloseProgressWindow() ......................... 189
CreateFileForWriting() ......................... 25, 27
CreateBoxAnnotation() ......................... 113
CountImageDocuments() ......................... 83
Cos() ............................................. 47
ComponentAddChildAtBeginning() ............ 113
ComponentAddChildAtEnd() .................... 113
ComponentGetChild() ......................... 113
ComponentGetChildToLocalTransform() ..... 113
ComponentGetChildToPageTransform() ...... 113
ComponentGetChildToViewTransform() .... 113
ComponentGetLocalToPageTransform() ...... 113
ComponentGetLocalToViewTransform() ..... 113
ComponentGetRect() ............................. 113
ComponentGetPosition() .................... 113
ComponentSetForegroundColor() .......... 113
ComponentSetRect() ............................ 113
ComponentTransformCoordinates() ........... 113
ContainsCanoeDialog() ......................... 14
ControlDown() ................................... 80
ConvertToByte() ................................ 107
Coordinate systems
component ......................................... 113
image .............................................. 113
view ............................................... 113
window .......................................... 113
Cost() ............................................ 47
CountDocumentWindowsOfType() .............. 140
CountImageDocuments() ....................... 63
CreateBoxAnnotation() ......................... 113
CreateForWriting() ............................ 25, 27

D
Delay() ............................................ 142
DeleteNote() ..................................... 55
DeletePersistentNote() ......................... 55
dialogs
building advanced dialogs ...................... 154
building basic dialogs ......................... 149
FloatingModelessDialog() ...................... 66
formatting dialogs .............................. 152
ModelessDialog() ................................ 66
OpenDialog() ..................................... 22
SaveAsDialog() .................................. 22
Display() ........................................ 149, 189
DisplayAt() ...................................... 193
DLGAddBitmap() .................................. 154
DLGAddElement() ................................ 149
DLGAnchor() ..................................... 152
DLGCreateBevelButton() ...................... 154
DLGCreateBox() .................................. 152
DLGCreateCheckBox() ............................ 154
DLGCreateChoice() ................................ 149, 154
DLGCreateDoubleStateBevelButton() ..... 103, 154
DLGCreateGraphic() ............................. 154
DLGCreateGroup() ............................... 154
DLGCreateImagePopup() ....................... 154
DLGCreateIntegerField() ...................... 154
DLGCreateLabel() ................................ 154
DLGCreateList() .................................. 154
DLGCreatePanel() ................................ 159
DLGCreatePanelList() .......................... 159
DLGCreatePopup() .............................. 154
DLGCreateProgressBar() ...................... 103, 154
DLGCreatePushButton() ....................... 149
DLGCreateRadioList() ......................... 154
DLGCreateRealField() ......................... 154
DLGCreateStringField() ....................... 149, 154
DLGCreateTab() .................................. 159
DLGCreateTabList() ............................. 159
DLGExternalPadding() ......................... 152
DLGFill() .......................................... 103
DLGGetElement() ................................ 154
DLGGetStringValue() ........................... 149
DLGGroupItems() ................................ 154
DGLidentifier() .................................. 154
DLGiternalPadding() ............................ 152
DLSgetElementLabel() .......................... 154
DLGsetProgress() ................................ 103, 154
DLGsetLayout() .................................. 152
DGLTitle() ........................................ 154
DoesFunctionExist() ............................ 143

E
event handling ................................... 72, 77, 80, 125, 178, 183
ExecuteScriptString() ......................... 143, 145, 189
Exit .............................................. 145
Exit() ............................................. 5

F
FFT() ............................................... 49
files ............................................... 22, 25, 27
creating .......................................... 25, 27
opening .......................................... 22, 25, 27
saving ............................................. 22, 25, 27
streaming ........................................ 25
Find() ............................................. 31
FindNextImage() .................................. 20
For() .............................................. 107
ForEach() ........................................ 173, 179
Format() .......................................... 142

G
GetApplicationDirectory() ....................... 22
GetCLUT() ........................................ 193
GetComplexNumberNote() ....................... 55
GetCurrentFileSize() ......................... 199
GetDirectoryDialog() ............................ 14, 31
GetExceptionString() ......................... 12
GetFilesInDirectory() ......................... 31
GetSize() ........................................ 27
GetFrontImage() ................................ 9
GetHighResTickCount() ....................... 142
GetHighResTickResolution() ................. 142
GetHighResTicksPerSecond() ................. 142
GetImageDocument() ......................... 83
GetKey() .......................................... 80
GetNthDocumentWindowOfType() ............ 140
GetNumber() ..................................... 14
GetPersistentNote() ............................ 55

H
Hex() ............................................... 17, 72

I
IFFT() ............................................... 49
image
clean/dirty ...................................... 69
event listening ................................... 72, 77, 80, 183
inline image definition ......................... 35
management ....................................... 20, 22, 25
notes .............................................. 65
tags ............................................... 55
imageAddEventListener() ...................... 72, 125, 178
ImageClone() ..................................... 9, 49
ImageCreateImageDisplay() .................... 113
ImageDisplayAddEventListener() ........... 183
ImageDisplayAddEventListener() .......... 172
ImageDisplayAddImage() ....................... 134
ImageDisplayAddKeyHandler() ............... 80, 178
ImageDisplayAddROI() ......................... 120
ImageDisplayAddROIs() ......................... 107, 120
ImageDisplayDeleteROI() ...................... 120
ImageDisplayFindSliceIndexById() ........ 134
ImageDisplayGetCalibrationSlice() ......... 134
ImageDisplayGetDisplayedLayers() ........ 125
ImageDisplayGetInputColorTable .......... 62
ImageDisplayGetOutputColorTable .......... 62
ImageDisplayGetROI() ......................... 107, 120
ImageDisplayGetSliceIDByIndex ............. 129, 134
ImageDisplayIsROISelected() ............... 107
ImageDisplayLookupROI() ..................... 120
ImageDisplayRemoveEventListener() ....... 72
ImageDisplayRemoveKeyHandler() .......... 80
ImageDisplaySetCalibrationSlice() ......... 134
ImageDisplaySetInputColorTable .......... 62
ImageDocumentCreateRGBImageFromDoc ument() ............................................. 137
ImageDocumentEnlistPlacedOnPage() ........ 113
ImageDocumentGetCurrentFile() .............. 83
ImageDocumentGetID() .......................... 140
ImageDocumentGetMinimumPageSize() ...... 113
ImageDocumentGetPreferredViewRect() ..... 77
ImageDocumentGetReferencePageSize() ..... 113
ImageDocumentGetRootComponent() .......... 113
ImageDocumentGetViewExtent() .............. 137
ImageDocumentGetViewToWindowTransform() 113, 137
ImageDocumentGetWindow() ................... 113
ImageDocumentIsDirty() ....................... 69, 83
ImageDocumentSave() ......................... 69, 83
ImageDocumentSwitchToPageMode() .......... 113
ImageGetDimensionOrigin() ................... 44
<table>
<thead>
<tr>
<th>Function/Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ImageGetDimensionScale()</td>
<td>returns the scale factor to apply to the image dimensions</td>
</tr>
<tr>
<td>ImageGetDimensionUnitString()</td>
<td>returns the unit string for the image dimensions</td>
</tr>
<tr>
<td>ImageGetID()</td>
<td>returns the identifier for the image</td>
</tr>
<tr>
<td>ImageGetImageDisplay()</td>
<td>returns the display handle for the image</td>
</tr>
<tr>
<td>ImageGetImageDisplaySet()</td>
<td>returns the display set handle for the image</td>
</tr>
<tr>
<td>ImageGetLabel()</td>
<td>returns the label for the image</td>
</tr>
<tr>
<td>ImageGetNumDimensions()</td>
<td>returns the number of dimensions for the image</td>
</tr>
<tr>
<td>ImageGetOrCreateImageDocument()</td>
<td>creates or returns an image document for the image</td>
</tr>
<tr>
<td>ImageIsValid()</td>
<td>returns true if the image is valid</td>
</tr>
<tr>
<td>ImageReadImageDataFromStream()</td>
<td>reads image data from a stream</td>
</tr>
<tr>
<td>ImageRemoveEventListener()</td>
<td>removes an event listener for the image</td>
</tr>
<tr>
<td>ImageWindowGetImageDocument()</td>
<td>returns the image document for the image window</td>
</tr>
<tr>
<td>ImageWriteImageDataToStream()</td>
<td>writes image data to a stream</td>
</tr>
<tr>
<td>Imaginary()</td>
<td>returns the imaginary part of a complex number</td>
</tr>
<tr>
<td>IntegerImage()</td>
<td>returns an integer image from an array of integers</td>
</tr>
<tr>
<td>Interface()</td>
<td>returns the interface handle for an object</td>
</tr>
</tbody>
</table>

Intrinsic variables:
- icol
- idepth
- idimindex
- iheight
- iplane
- ipoints
- irad
- irow
- itheta
- iwidth

K
- KeepImage()

L
- LaunchExternalProcess()
- LaunchExternalProcessAsync()
- Left()
- Len()
- Len1()
- LinePlotImageDisplayCountSlices()
- LinePlotImageDisplayGetGroupToDisplayTransform()
- LinePlotImageDisplaySetContrastLimits()
- LinePlotImageDisplaySetContrastedChannels()
- LinePlotImageDisplaySetDisplayedChannels()
- LinePlotImageDisplaySetImageDocument()
- LockUpElement()
- loop

M
- Mid()
- Modulus()

N
- NaN()
- NewCriticalSection()
- NewLiveProfile()
- NewMutex()
- NewSemaphore()
- NewMutex梢()
- NewSignal()
- NewStreamFromFileReference()
- NewTagList()
- Notes()

O
- Object
  - ClassName()
  - Clone()
  - constructor
  - destructor
- ScriptObjectIsValid()
- ObjectList
- AddObjectToList()

For Each
- ObjectAt()
- ObjectCount()
- ObjectFind()
- ObjectFirst()
- ObjectGetAttribute()
- ObjectGetChildren()
- ObjectGetClassName()
- ObjectGetClassType()
- ObjectGetDeepCopy()
- ObjectGetDisplayName()
- ObjectGetEventList()
- ObjectGetFileReference()
- ObjectGetImageDisplay()
- ObjectGetLabel()
- ObjectGetLastUpdated()
- ObjectGetMaskValue()
- ObjectGetPlacementImageDisplay()
- ObjectGetPredecessor()
- ObjectGetProgramName()
- ObjectGetProperty()
- ObjectGetRootObject()
- ObjectGetSibling()
- ObjectGetTagSet()
- ObjectGetViewObject()
- ObjectIsAbandoned()
- ObjectIsCallback()
- ObjectIsEventFilter()
- ObjectIsHasController()
- ObjectIsHasControllerChild()
- ObjectIsHasRoleObject()
- ObjectIsHasSignatureObject()
- ObjectIsHasViewObject()
- ObjectIsOnTrack()
- ObjectIsValid()
- ObjectIsVisible()
- ObjectIsVisited()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
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- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
- ObjectIsVisible()
Topics

2D Plotting ........................................... 47
Basics .... 5, 9, 12, 14, 17, 55, 66, 69, 170
Batch Processing...................... 20, 31
Convolution,............................................... 49
Coordinate Transformation ............... 47, 49
Data Adressing .......................... 35, 39, 44, 107
Data Import/Export ............... 22, 25, 27
Dialogs ... 14, 99, 149, 152, 154, 159, 164, 189
Display ....... 62, 113, 129, 134, 137, 140
Event Listeners 69, 72, 77, 80, 122, 164, 183
External Calls ............................. 187, 199
Fourier Transform ................................. 49
Image Filter .......................................... 49
Just for Fun ........................................ 193
Object oriented programming .............. 69
ROI ............ 107, 110, 113, 120, 122, 125
Script Compatibility ............. 143, 189
Tags ............................................... 55, 58
Threading ............ 66, 83, 87, 90, 99, 103

Timing and Synchronizing .......... 83, 142
Tips & Tricks 17, 145, 173, 176, 178, 179, 187, 189, 199
User Interaction 149, 152, 154, 159, 164, 183
Try-Catch......................... 12, 66, 143, 145
Try-Recover.......................... 12
TwoButtonDialog() ............. 14

U

UnregisterScriptPalette() ......... 189
UpdateImage() .................. 140, 193

V

Val() ......................................................... 193
ValidateView() ................................. 103

W

WaitOnSignal() ......... 90, 199
Warp() .................... 49
While() .................... 20, 69

WindowClose() ........................................ 113
WindowGetContentBounds() ....... 113
WindowGetContentPosition() ....... 113
WindowGetContentSize() ............ 113
WindowGetFrameBounds() ........... 113
WindowGetFramePosition() ......... 113
WindowGetFrameSize() ............... 113
WindowGetMousePosition() ....... 183
WindowSelect() ................. 140
WindowSendBehind() ............. 140
WindowSetContentBounds() ....... 113
WindowSetContentPosition() ....... 113
WindowSetContentSize() ........... 113
WindowSetFrameBounds() ........... 113
WindowSetFramePosition() ....... 77, 113
WindowSetFrameSize() ........... 113
WriteFile() .................. 27