

Useful URLs

These URLs were checked and worked as of February 2010. Click on the headings below to go to that subsection.

1. [Free microscopy manufacturer's image viewers](#)
2. [General image viewers](#)
3. [Image J & Fiji](#)
4. [Merging Images in Adobe Photoshop](#)
5. [Digital image ethics](#)
6. [Freeware for Extended Focus stacking](#)
7. [Digital Imaging tutorials](#)

1. Free microscopy manufacturer's image viewers

Zeiss AIM LSM image viewer

<http://www.zeiss.de/C12567BE0045ACF1/Contents-Frame/CAA2EF638EC5F0D3C1256ADF0050E2F1>

Zeiss ZEN 2009 LSM image viewer

<http://www.zeiss.de/C12567BE0045ACF1/Contents-Frame/3F3821B370EFC91CC125734C002FB38C>

Leica image viewer

<ftp://ftp.llt.de/softlib/LCSLite/LCSLite2611537.exe>

(for the Leica FTP site with the latest image browsers, go to: <ftp://ftp.llt.de/softlib>)

Nikon image viewing software

http://support.nikontech.com/app/answers/detail/a_id/61/~/current-versions-of-nikon-software

Olympus image viewer

https://support.olympus.co.jp/cf_secure/en/lisg/bio/download/ga/fv10_asw/index.cfm

Volocity Lite image viewer

http://www.improvision.com/products/volocity/volocity_le/

2. General image viewers

Picasa image viewer - <http://picasa.google.co.uk/>

Fast Stone Image viewer - <http://www.faststone.org/FSViewerDownload.htm>

Virtual dub <http://virtualdub.org/>

3. Image J & Fiji

Image J

<http://rsb.info.nih.gov/ij/>

<http://www.macbiophotonics.ca/imagej/>

<http://en.wikipedia.org/wiki/ImageJ>

<http://bipl.umn.edu/downloads>

<http://worms.zoology.wisc.edu/research/4d/4d.html>

Fiji

http://pacific.mpi-cbg.de/wiki/index.php/Main_Page

http://en.wikipedia.org/wiki/FIJL_%28software%29

<http://pacific.mpi-cbg.de/wiki/index.php/Documentation>

DeltaVision image loader for Image J

http://www.embl.de/eamnet/html/dv_loader.html

4. Merging Images in Adobe Photoshop

<http://www.sfu.ca/~mbbweb/microscopy/pdf/photoshop.pdf>.

<http://web.uvic.ca/ail/techniques/photoshop.html>

<http://www.aecom.yu.edu/aif/instructions/merging01/merging01.htm>

http://microscopy.uc.edu/ia/PS_tutorial2.php

Adobe Photoshop for scientists tutorial page by Jerry Sedgewick

<http://www.rawlight.com/quickphotoshop.html>

For those colour-blind: <http://ifly.iam.u-tokyo.ac.jp/color/index.html>

<https://ifn.mpi-cbg.de/wiki/ifn/images/1/1e/QuantitativeColocAnalysis0709small.pdf>

5. Digital Image Ethics

<http://www.uab.edu/researchintegrityandimages/default.html>

<http://swehsc.pharmacy.arizona.edu/exppath/core/news/pdf/2009/2009oct.pdf>.

<http://swehsc.pharmacy.arizona.edu/exppath/resources/pdf/Digital%20Imaging%20Ethics%202007.pdf>

http://swehsc.pharmacy.arizona.edu/exppath/micro/digimage_ethics.php

<http://www.atlantactsi.org/areas/erks/ethics/documents/Image%20Manipulation.pdf>

6. Freeware for Extended Focus stacking

Combine ZM <http://hadleyweb.pwp.blueyonder.co.uk/CZM/News.htm>

Focus Extender http://www.reindeergraphics.com/index.php?option=com_content&task=view&id=29&Itemid=52

[Extended focus webpage with further links](#)

7. Basic tutorials in Digital Imaging

Read this first (tells you why you shouldn't use jpegs for scientific imaging!)

http://pacific.mpi-cbg.de/wiki/index.php/IP_Principles

Overall Microscopy Primer digital imaging index:

<http://micro.magnet.fsu.edu/primer/digitalimaging/index.html>

Basic: <http://micro.magnet.fsu.edu/primer/digitalimaging/digitalimagebasics.html>

<http://www.ph.tn.tudelft.nl/Courses/FIP/noframes/fip.html>

<http://www.drjohnruss.com/downloads/course.pdf>

http://bama.ua.edu/~hsmithso/class/bsc_695/links/index.shtml

<http://www.dl-c.com/basics.pdf>

<http://www.library.cornell.edu/preservation/tutorial/intro/intro-01.html>

<http://www.ischool.utexas.edu/technology/tutorials/graphics/digital/>

<http://swehsc.pharmacy.arizona.edu/exppath/micro/digimageintro.html>

by Jerry Sedgewick <http://www.rawlight.com/resolution.pdf>

<http://www.chainstyle.com/tutorials/res1.html>

More advanced, and mainly on photographic cameras

<http://www.cambridgeincolour.com/tutorials.htm>

<http://www.clarkvision.com/imagedetail/>

Norman Koren's photographic webpage – has just about everything on it

<http://www.normankoren.com/sitemap.html>