

“Geotagging Digital Photos on the Mac”

PMUG Presentation on October 11, 2011 - Links

The Global Positioning System (GPS)

* Wikipedia entry on GPS
http://en.wikipedia.org/wiki/Global_Positioning_System

* GPS Satellite
http://en.wikipedia.org/wiki/GPS_satellite

* GPS Signals
http://en.wikipedia.org/wiki/GPS_signals

* GPS Augmentation
http://en.wikipedia.org/wiki/GPS_augmentation

* List of GPS Satellite Launches
http://en.wikipedia.org/wiki/List_of_GPS_satellite_launches

* Satellite Navigation Systems
http://en.wikipedia.org/wiki/Global_navigation_satellite_system

* Geotagged Photographs
http://en.wikipedia.org/wiki/Geotagged_photograph

* Point of Interest
http://en.wikipedia.org/wiki/Point_of_Interest

* Error Analysis for GPS
http://en.wikipedia.org/Error_analysis_for_the_Global_Positioning_System

* What is GPS? - Garmin Website
<http://www8.garmin.com/aboutGPS/>

* How Does GPS Work? - TomTom Website
<http://www.tomtom.com/howdoesitwork/index.php>

* U.S. Government GPS Website
<http://gps.gov/>

* GPS: A New Constellation (Smithsonian National Air and Space Museum)
<http://www.nasm.si.edu/exhibitions/gps/>

* The Origins of GPS, Articles from GPS World Magazine:
Part 1: http://www.gpsworld.com/gnss-system/gps-modernization/the-origins-gps-part-1-9890?page_id=1

Part 2: <http://www.gpsworld.com/gnss-system/gps-modernization/the-origins-gps-part-2-fighting-survive-10010>

GPS Satellites

* GPS II Satellites by Boeing
<http://www.boeing.com/defense-space/space/gps/>

* GPS III Satellites by Lockheed Martin
* (GPS III program management and spacecraft development is in Newtown, PA)
<http://www.lockheedmartin.com/products/GPS/index.html>

* GPS Status Messages
<http://celestrak.com/GPS/status/>

* Mac Satellite Tracking Software List
<http://celestrak.com/software/satellite/macintosh.asp>

* NORAD Two-Line Elements (TLEs) for GPS Satellites, updated throughout the day
<http://celestrak.com/NORAD/elements/gps-ops.txt>

Books on GPS

* GPS Guides, free eBooks from Garmin
<http://www8.garmin.com/aboutGPS/manual.html>

* GPS: The First Global Navigation Satellite System, free eBook from Trimble & the Coalition to Save Our GPS
<http://www.saveourgps.org/free-gps-books.aspx>

* "The Garmin nuvi Pocket Guide", Jason D. O'Grady, Peachpit Press
<http://www.peachpit.com/title/0321658973>

Available on Amazon.com:

* "Outdoor Navigation with GPS", Stephen W. Hinch, Wilderness Press

* "GPS Made Easy", Lawrence and Alex Letham, Mountaineers Books

* "Outdoor Guide to Using your GPS", Steve Featherstone, Creative Publishing International

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Digital Cameras with Built-In GPS Receivers (as of October 2011)

- * Canon PowerShot SX230 HS
- * Canon PowerShot S100
- * Casio Exilim EX-H20G
- * Fuji FinePix F600EXR
- * Fuji FinePix F550EXR
- * Fuji FinePix XP30
- * Leica V-Lux 20
- * Nikon Coolpix AW100
- * Nikon Coolpix P6000
- * Olympus TG-810
- * Panasonic Lumix DMC-TS3
- * Panasonic Lumix DMC-ZS10
- * Panasonic Lumix DMC-ZS7
- * Pentax Optio WG-1 GPS
- * Samsung HZ35W
- * Sony Cyber-shot DSC-TX100V
- * Sony Cyber-shot DSC-HX9V
- * Sony Cyber-shot DSC-HX7V
- * Sony Cyber-shot DSC-HX5V

GPS Receivers

- * AMD AGL3080 - available on Amazon.com
http://module.amod.com.tw/Product/product_more.asp?vrlShohl
- * Garmin Hiking GPS Receivers (recommended Garmin models: Montana, Oregon, Dakota) - available on Amazon.com
<http://www.garmin.com/us/products/onthetrail>

Software: Geotagging

- * PhotoLinker - \$49
<http://earlyinnovations.com/photolinker/>
- * GPSPhotoLinker - donationware
<http://earlyinnovations.com/gpsphotolinker/>
- * HoudahGeo - \$30
<http://www.houdah.com/houdahGeo/>
- * iPhoto (version 9+ can Geotag images) - \$15 App Store / \$50 as part of iLife
<http://www.apple.com/ilife/iphoto/>
- * Aperture (version 3+ can Geotag images) - \$80 App Store
<http://www.apple.com/aperture/>

Software: Conversion and Display

- * GPSBabel - free
<http://www.gpsbabel.org/>
- * Garmin BaseCamp - free
<http://www8.garmin.com/macosex/>
- * TrailRunner - donationware
<http://trailrunnerx.com/>
- * Google Earth - free
<http://earth.google.com>
- * PhotoKML - free
<http://www.visualtravelguide.com/Photo-kml.html>
- * LoadMyTracks - free
<http://www.cluetrust.com/LoadMyTracks.html>

Software: Other

- * LightTrac App (iOS) - \$5
<http://www.lighttracapp.com/>
- * The Photographer's Ephemeris (Adobe Air App) - free
<http://www.photoephemeris.com/>
- * MotionX-GPS (iOS App, can write GPX track files, iPhone and iPad versions available) - \$3
<http://gps.motionx.com/iphone/overview/>
- * SmallImage - donationware
<http://www.iconus.ch/fabien/products/sieng/sieng.html>
- * Photo Privacy - \$4
<http://www.cocoawithchurros.com/photoprivacy.php>
- * IMT Exif Remover - \$15
<http://www.imactools.com/exifremover/>
- * SnapsCleaner - \$30
<https://www.macupdate.com/app/mac/12131/snapscleaner>

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Websites

* Panoramio (map page)

<http://www.panoramio.com/map/>

* Flickr (map page)

<http://www.flickr.com/map/>

* How to Geotag a Photo on Flickr

http://www.ehow.com/how_2031227_geotag-photo-flickr.html

* loc.alize.us

<http://loc.alize.us/>

* Enabling and uploading geotagged photos on
photosharing Websites

<http://www.earlyinnovations.com/photolinker/mapped-web-galleries.html>

Places

* Arches National Park

<http://www.nps.gov/arch/index.htm>

* Bowman's Hill Wildflower Preserve

<http://www.bhwp.org>

* Longwood Gardens

<http://www.longwoodgardens.org>

* Mountain Village, Colorado

<http://www.mountain-village.co.us/>

* Telluride, Colorado

<http://www.visittelluride.com>

* Yosemite National Park

<http://www.nps.gov/yose/>

* "The Tigers of Princeton University: A Campus Safari
and Photo Essay", Wink Einthoven and Margaret
Smagorinsky,

Princeton University Office of Communications/
Publications

<http://etcweb.princeton.edu/CampusWWW/Communications/tigers.pdf>

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