



Basecamp – Pt II

The basics...

Getting to know a whole lot more about Basecamp & your GPS

Clifford Musante

<http://www.motocliffnotes.info> – My Blog

A little bit about me...

- Been riding for 15 months (5 months spent healing)
- Broke leg 2 weeks after my “comeback”
- Just completed a trip to Patagonia in Nov, 2014
 - Less than 5 days ago
- Executive and Technologist for numerous IT firms
- Design Cloud compute strategies and systems
 - Am regularly asked
 - How is this s/w supposed to work
 - Why doesn't it work that way

Discussion Topics – Part I



- Understanding what BaseCamp is
- Connecting your GPS
- The difference between BaseCamp and GarminExpress
- Important distinctions (Way Points, Routes, BreadCrumbs, Tracks)
- Creating a Waypoint
- Creating a route
- Organizing your data (Collections, Devices, Folders, & Lists)
- Keeping your GPS clean
- Downloading info into GPS
- Capturing your Trip Logs
- Understanding "Your GPS is going to recalculate the route"
- Using Google Earth, Google Maps with your GPS
 - Did you know that you could...

Discussion Topics – Part 2



- Understanding BaseCamp is
- Organizing your data into folders, lists, categories
- Understanding routing
- Understanding Riding Profiles
- Custom waypoints and POIs
- Custom Menu – Power on & finger over signal strength
- Sharing Data with others
- Backup and Restore of Basecamp
- Keeping your GPS clean
- Capturing and using your trip logs
- Understanding the file structure of your Zumo 660

Understanding what BaseCamp is



- Mapping s/w, provided for free, from Garmin
- Works well with Garmin products
- Works with all products (with varying levels of integration)
- Allows for the creation of
 - Waypoints, Routes, Adventures, Tracks
- Allows you to manage (Upload/Download, Organize, Copy, Delete)
 - Waypoints, Routes, Tracks

Organizing your data

(Into folders, lists, categories)



- The metadata world...
- Tools of organizing
 - Collections
 - Devices
 - Folders
 - Lists
- Reasons for organizing
 - Sanity – Too much data makes things harder to find
 - Entropy: Things tend toward disorder, unless we stop it
 - Brevity – You can name things based on their context...
 - Saving Space – Only load what you need, share what you wish
 - Using your GPS while riding...

Organizing your data (How to)



- Choose high-level organization basket
 - Not possible to create another collection
 - Use folders
 - To hold lists which are similar
 - To hold way points which are similar
 - Use Lists
 - To group waypoints, & POIs for easy loading into GPS
 - To separate tracks from routes and waypoints
 - To group a list, with all of the corresponding way points
 - To allow you to easily open & edit all relevant waypoints

INSERT JPG OF ALL FOLDERS


INSERT JPB OF EXPANDED FOLDER, WITH LISTS

Understanding Routing



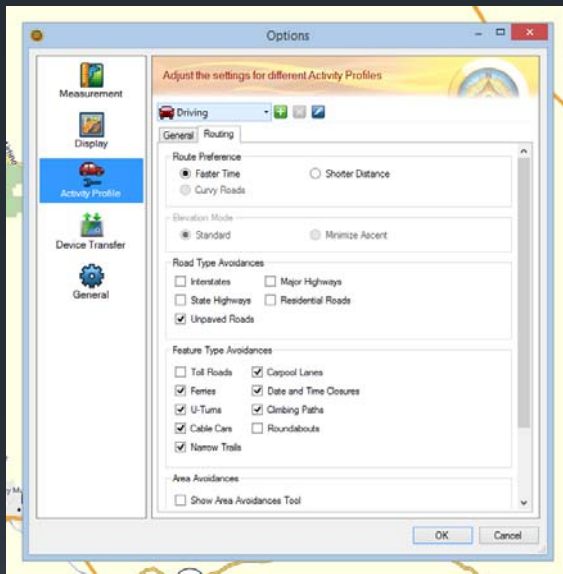
- What is routing
 - An intelligent way to navigate from Start to Finish, along specific points or any available paths
- How does it work
 - Uses the profile on Basecamp to build the route
 - The profile includes choices, and exclusions
 - Uses a separate selection on Zumo to build the route
 - Selection names are similar, but not the same
 - Settings for selection can differ wildly from Basecamp
- What usually goes wrong
 - The map in Basecamp and Zumo are different
 - Results in recalculation
 - The profile in Basecamp and Selection in Zumo are different
 - Will produce a wildly different route than expected
- Demo

Understanding riding profiles (Basecamp)

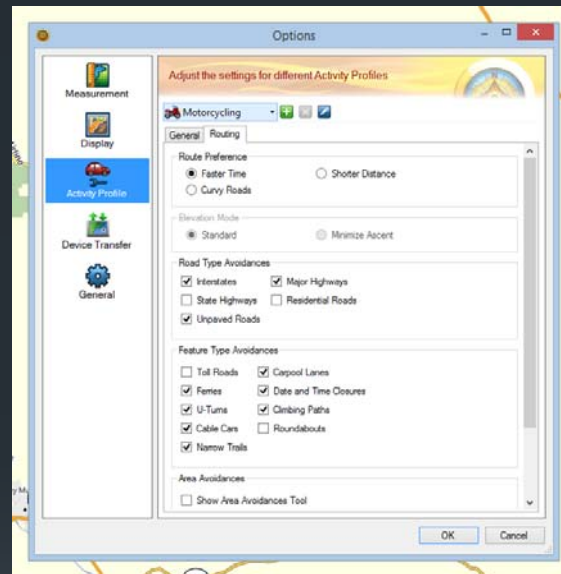
- Method 1
 - Select any of the following
 - Waypoints
 - Points of Interest
 - Routes
 - Breadcrumbs
 - Tracks
 - Right Click -> Create Route using selected waypoints
- Method 2
 - File -> New -> Route (Or Click on  ROUTE Symbol)
 - Drag and drop start & Finish

Understanding riding profiles (Basecamp)

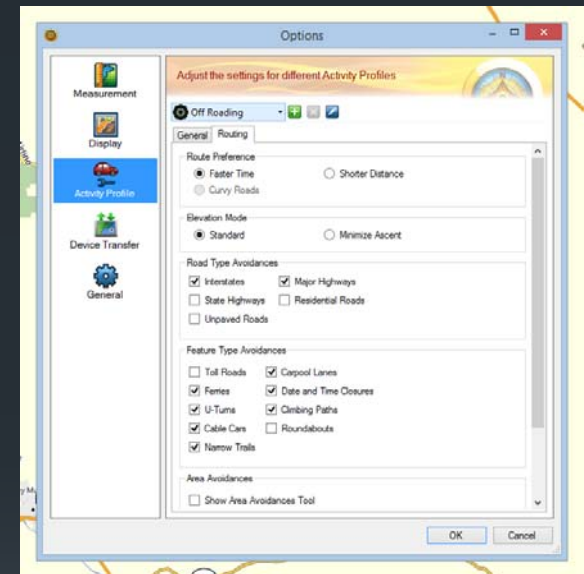
- Basecamp Profiles



Driving Profile



Motorcycle Profile

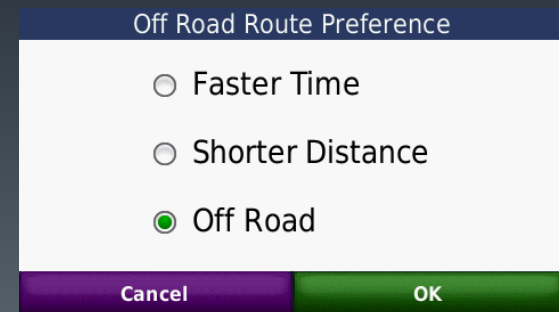
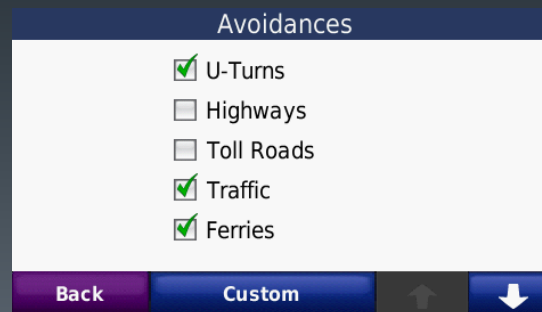
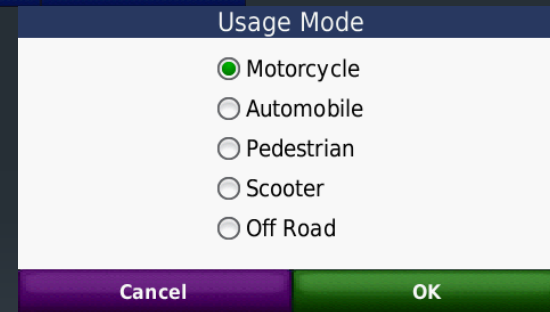
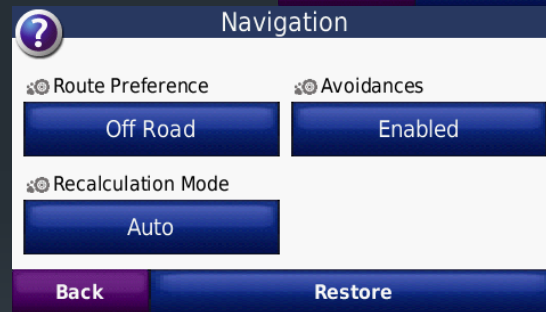
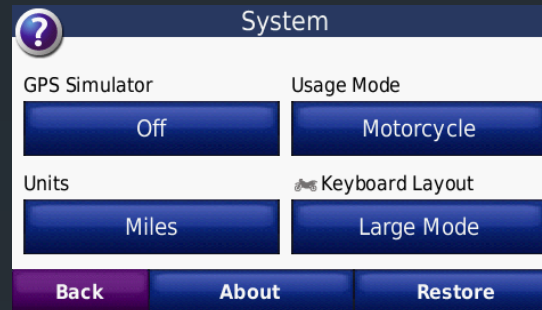


Off-Road Profile



- Demo of profiles (Basecamp)

Understanding riding profiles (Zumo 660)

- Zumo Profiles

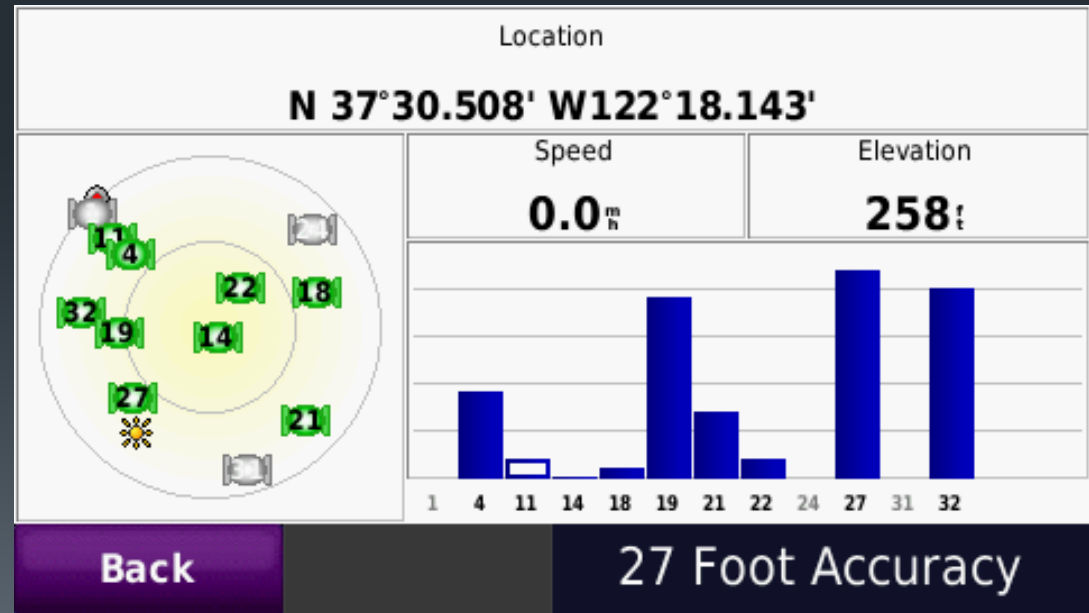
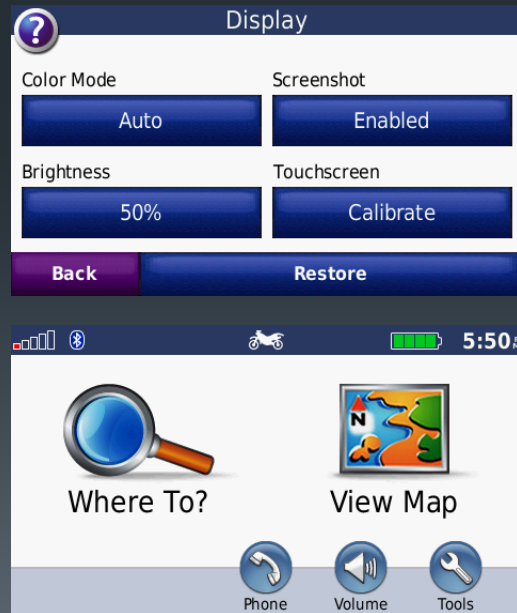


Custom waypoint & POI icons


- How to create a set of custom icons for waypoints
 - Create icons with names 
- Where to put them on the PC
 - MyDocuments\MyGarmin\Custom Waypoint Symbols\
 - 001.bmp, 002.bmp, 003.bmp, etc.
- How to ensure they work properly
 - Open a Waypoint
 - Select one of the  custom symbols
- How to deploy them onto the GPS
 - I have been unable to find a way to load these symbols into the Zumo 660!!!

Accessing a custom menu (Satellite strength)

- Power on your GPS (and enable Screenshot...)
 - With main screen displaying
 - Press and hold the signal strength indicator
 - The Satellite connectivity and strength graphic will appear
 - You should see numerous satellites
 - If not, your system is broken or
 - You have not used it in a while

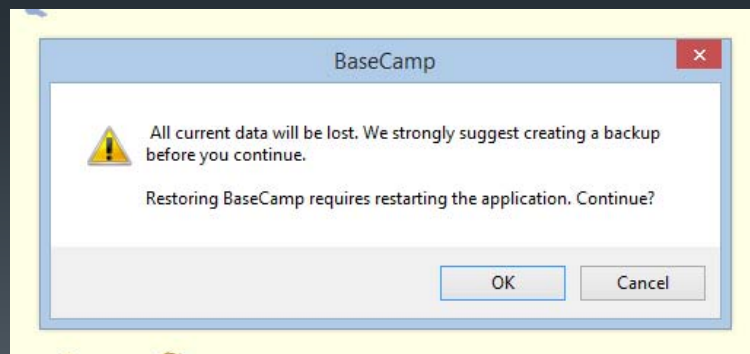
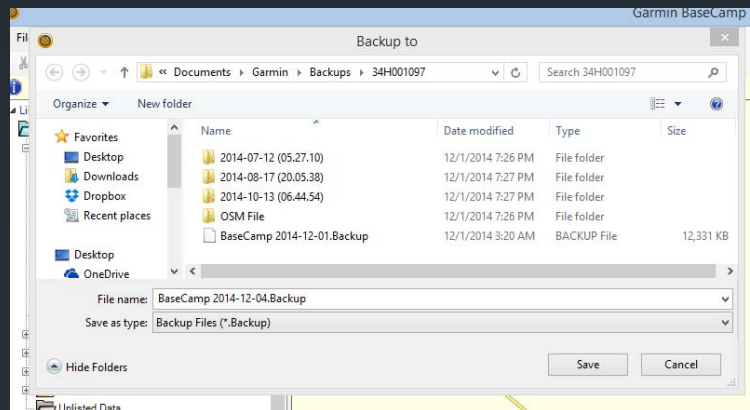


Sharing data with others

- Applicable to
 - Folders, Lists, Waypoints, Routes, Tracks, Logs (everything)
- Method 1 – All or nothing...
 - Create
 - Backup
 - Consume
 - Restore
- Method 2 - Export as file
 - Create
 - Select the list or Directory in MyCollection
 - File-Export 
 - Select the list or directory
 - Choose location for file to be stored
 - Consume
 - Select the list or Directory in MyCollection
 - File-Import (into the chosen list or directory)

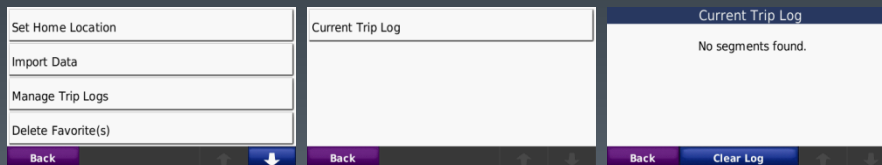
Backing up & restoring

- Objective
 - Backup all of the data in “My Collection”
- Backup
 - File – Backup
 - Select the file
 - OK
- Restore
 - File – Restore
 - Select the file
 - OK



Keeping your GPS clean

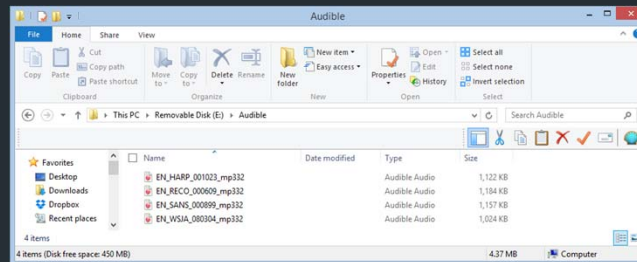
- You should keep your GPS “Clean” for several reasons
 - With fewer items on your GPS, it is easier to find your favorites
 - The GPS will run faster, when it is kept “Lean”
 - If you don’t clean your GPS, then you run the risk of losing all of your history
 - All of your tracks, bread crumbs, and waypoints will get lost
 - If you have to reset your GPS
 - If your GPS fails
 - If you lose your GPS
- You can keep your GPS clean by
 - Copying all important data from the GPS into Basecamp
 - Removing your “Current Log” from the GPS
 - Removing routes, and favorites from the GPS



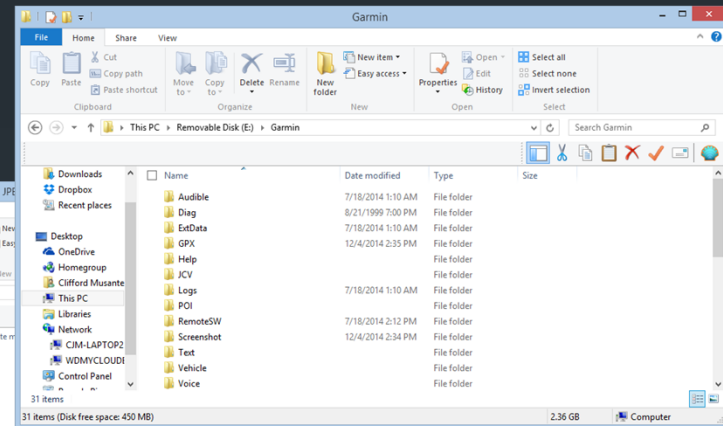
Understanding the file structure

- Plug your Zumo into your PC using the provided cable
 - The File system should appear, and have 3 or more directories

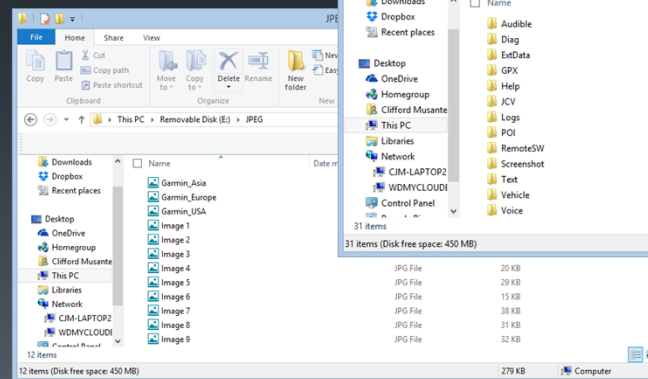
- Audible
 - Audible files



- Garmin
 - All types of files for Garmin

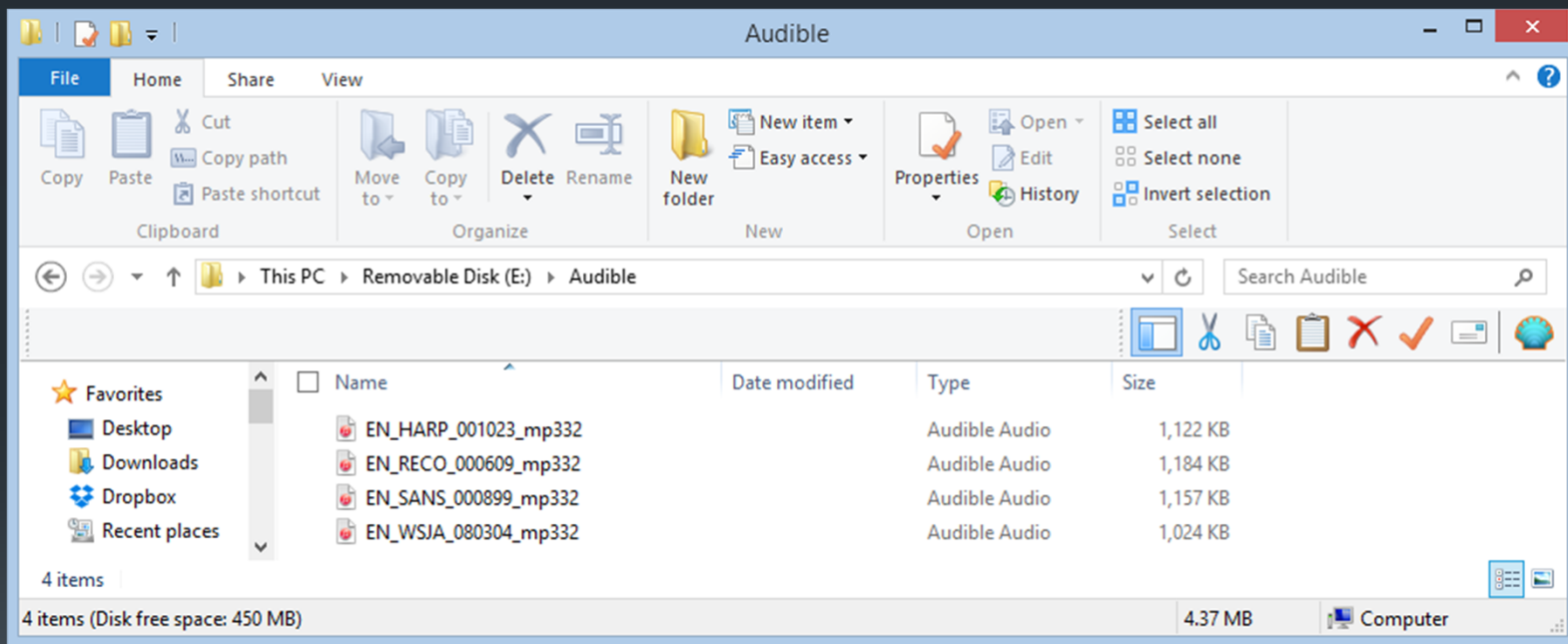


- JPEG
 - Various JPEG files



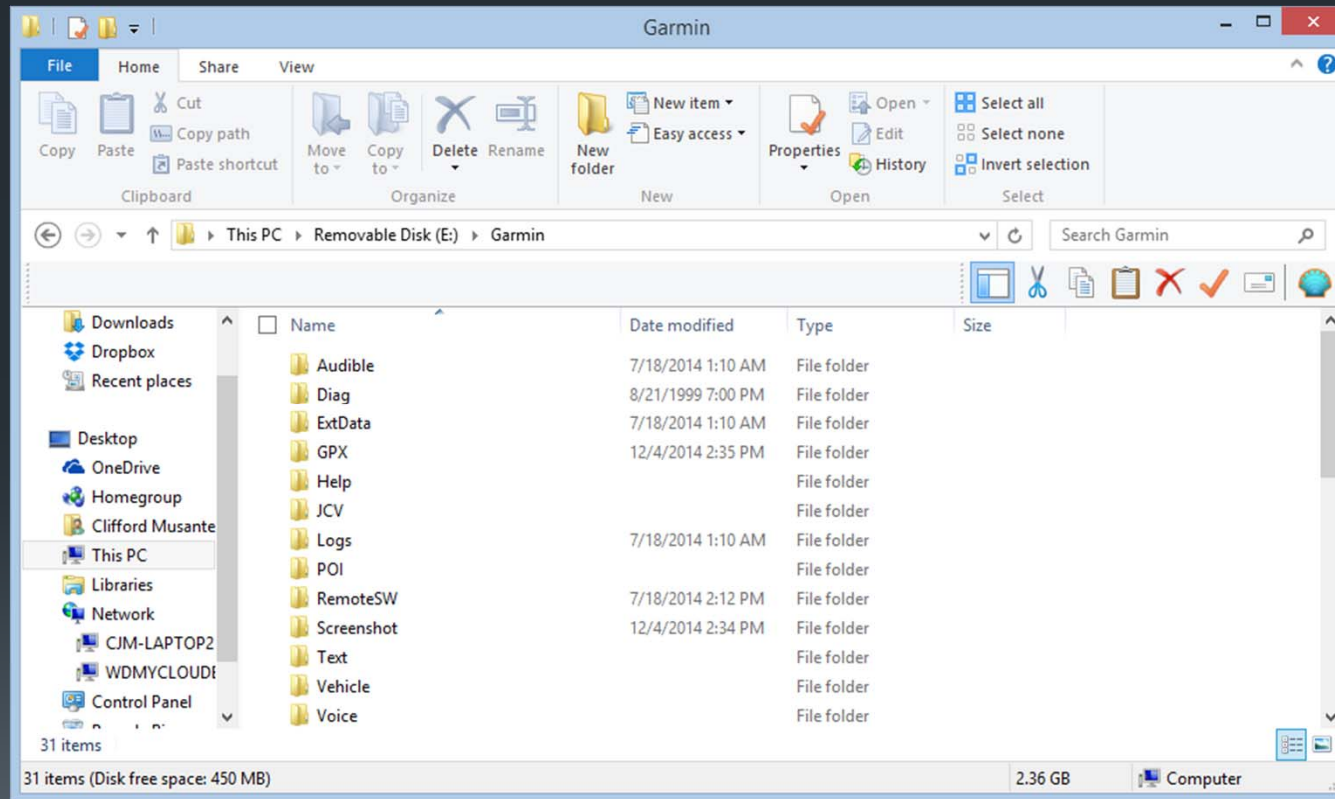
File structure - Audible

- Audible
 - Audible files



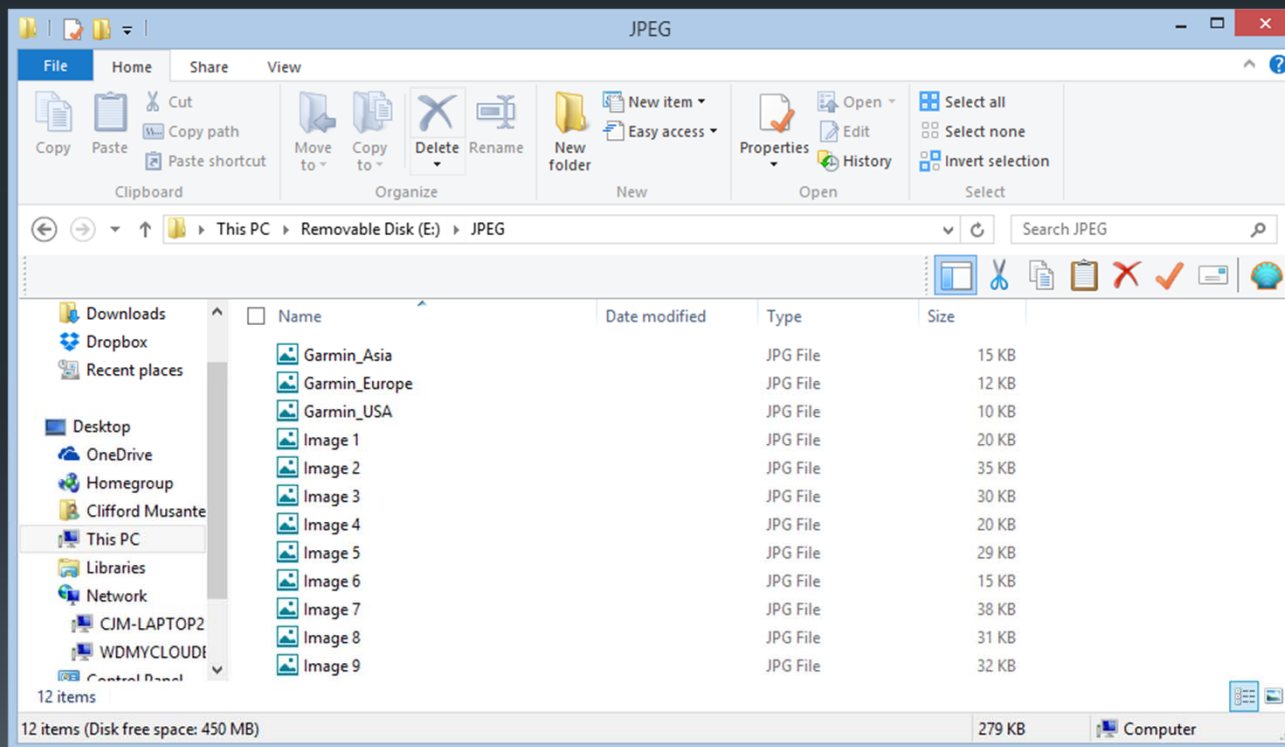
File structure - Garmin

- Garmin
 - All types of files for Garmin



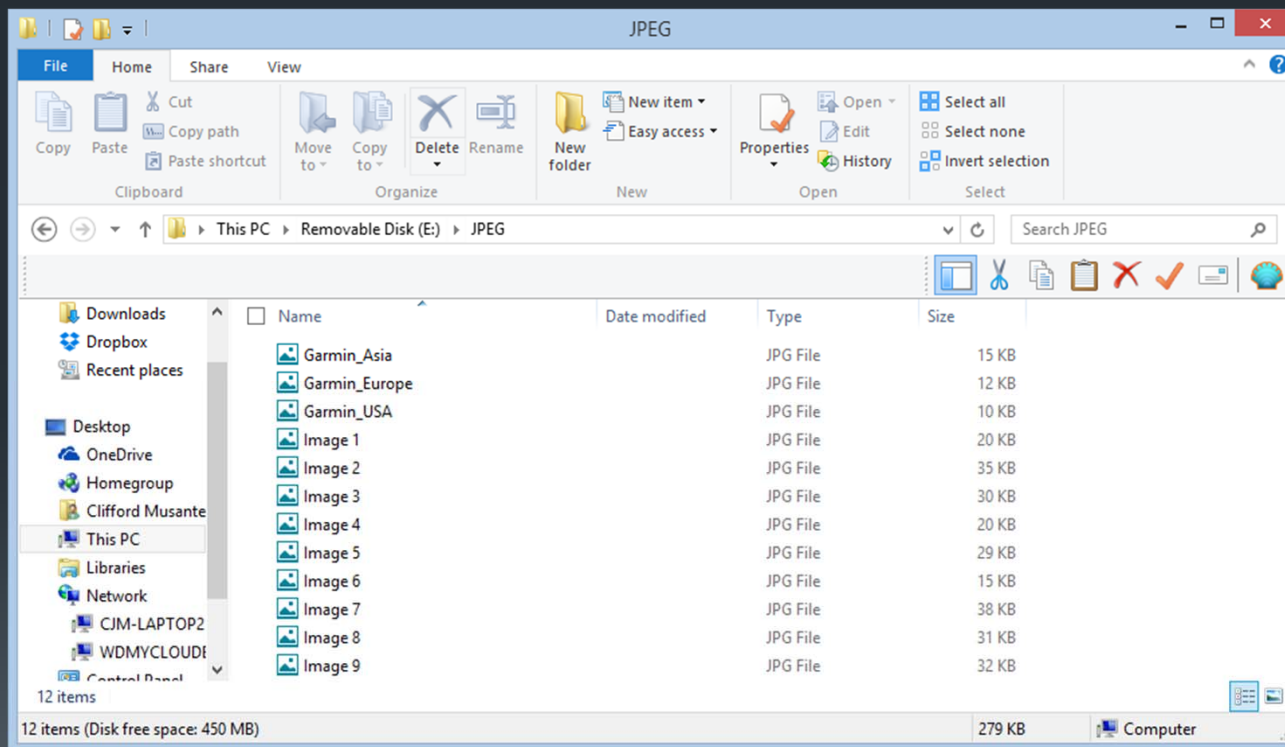
File structure - JPEG

- JPEG
 - Various JPEG files



File structure - JPEG

- JPEG
 - Various JPEG files



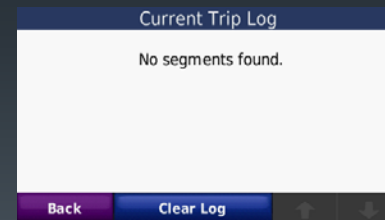
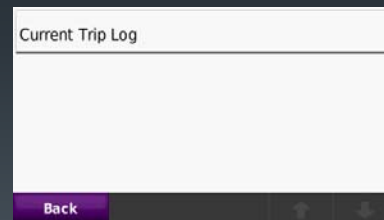
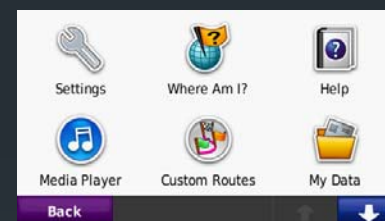
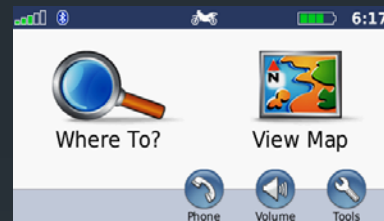
Capturing your Trip Logs

(and other things...)

- Did you know that
 - Your GPS keeps track of your movement
 - Capturing a GPS coordinate every few seconds
 - Stopping and restarting, every time the GPS does the same
 - Organizes all of it by date and time?

From within your Garmin

- Main Menu: Tools
 - My Data
 - Current Trip Log
 - All logs are shown
 - Mileage is visible



Converting your Trip Logs

(to a route...)

- Did you know that
 - You can use any tracks to become a repeatable route?
- Select the track in question
 - Right click
 - Select “Create route from selected track”
 - And you’re done!



Converting your Trip Logs

(Before and After)

- 2014-09-07 09:082
- 2014-09-07 09:083
- 008
- Sample Log for Route Conversion
- 2013-12-29 10:01
- 2013-12-29 11:50



- 2014-09-07 09:082
- 2014-09-07 09:083
- 008
- Sample Log for Route Conversion 1
- Sample Log for Route Conversion
- 2013-12-29 10:01



Entering “Google Earth” mode

(and other things...)




- Did you know that
 - You can use GPS in much the same way that you use Google Earth?
 - Well, not quite, but you can get closer
 - With the map showing, press on the map, and hold
 - Now, the map can be zoomed in/out & moved
 - YouTube video available here
 - <https://www.youtube.com/watch?v=pEreuhGI7wo>

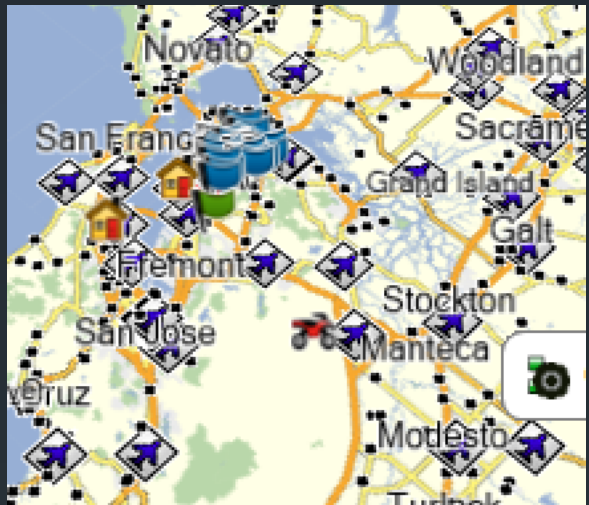
Using GPS coordinates (in other maps)



- If you need to know/use GPS coordinates
- Use Basecamp to locate the item on any map
- Create a waypoint
- Open the waypoint and examine the GPS coordinates
- Paste those into Google Maps or Google Earth for a different, more robust usage profile.

Using GPS coordinates (in other maps)


 Carnegie SVRA



Carnegie SVRA

Properties Notes Categories References

Name: Carnegie SVRA

Display:  Symbol and Name

Position:

37°37'52.9"N 121°32'11.9"W

[https://www.google.com/maps/place/37°37'52.9"N+121°32'11.9"W/@37.6320297,-121.5363889,15z](https://www.google.com/maps/place/37°37'52.9)

Most Visited Getting Started Google Motorcycle Cliff Notes... WDMyclo

N37° 37.881' W121° 32.199'

37°37'52.9"N 121°32'11.9"W



Look familiar?

Everything on the Garmin starts here & goes into

- System Menus
 - Maintenance and setup
- Functional Menus
 - Navigation & Display

