APPLICATIONS REQUIRED

* GARMIN MAPSOURCE
* GARMIN BASECAMP
* GPSMAPEDIT
* CGPSMAPPER
* MAPSET TOOLKIT

OPTIONAL APPLICATIONS

* DNRGPS
* ROUTE CONVERTER
* GPS TRACK EDITOR

GETTING STARTED

1. I LIKE TO KEEP MY MAPS ORGANIZED. I DO SO BY STRUCTURING THE DIRECTORIES AS FOLLOWS:
   1. 8 DIGIT MAP TITLE
   2. VERX.XX = VERSION OF MAP
      1. TRACKS = WHERE GPX FILES ARE STORED LOCALLY
      2. POLISHMAPFILES = WHERE POLISH MAP FILES AND FIRST IMG IS STORED
      3. MAPSET = WHERE THE MAPSET WILL BE COMPILED TO
2. FILTER ALL GPX DATA TRACKS
   1. CAN BE DONE USING COMBINATION OF THE FOLLOWING TOOLS:
      1. GARMIN MAPSOURCE
      2. GARMIN BASECAMP
      3. DNRGPS
      4. ROUTE CONVERTER
      5. GPS TRACK EDITOR
      6. GPS VISUALIZER
      7. OR TRACE RAW DATA POINTS IN GPSMAPEDIT
3. CREATE A NEW MAP IN GPSMAPEDIT
4. ADD THE FILTERED GPX DATA TRACKS
5. GO TO FILE/MAP PROPERTIES
   1. ON THE HEADER TAB, SET THE FOLLOWING:
      1. TYPE = GARMIN
      2. ID = (A 8 DIGIT NUMBER OF YOUR CHOICE)
      3. NAME = (ANYTHING OF YOUR CHOICE)
      4. COPYRIGHT INFORMATION = (NOT REQUIRED)
      5. CODE PAGE = 0 (7-BIT ASCII)
      6. CODING SCHEMA = AMERICAN (7-BIT)
   2. ON THE LEVELS TAB, CREATE THE FOLLOWING LEVELS:
      1. LEVEL0=24
      2. LEVEL1=21
      3. LEVEL2=19
      4. LEVEL3=17
      5. LEVEL4=15
      6. LEVEL5=14
6. SELECT ALL GPX DATA TRACKS, RIGHT MOUSE CLICK, AND SELECT CONVERT TO/POLYLINE
7. WHEN PROMPTED FOR THE LEVEL TO ADD THE POLYLINE TO ONLY LEVEL 0
8. WHEN PROMPTED TO SELECT THE TYPEOF POLYLINE YOU WOULD LIKE TO CREATE, SELECT 0x0016 ROADS WALKWAY/TRAIL
9. CLICK EDIT/SELECT/BY TYPE AND CHECK THE BOX FOR THE POLYLIN EYOU CREATED AND CLICK OK.
10. MAKING SURE YOU ARE ON LEVEL0, CLICK EDIT/INVERT SELECTION AND HIT THE DELETE KEY. WHEN PROMPTED, SELECT YES.
11. USING THE EDIT POINTS SELECTION TOOL, INSURE THAT ALL INTERSECTIONS ARE JOINED.
    1. YOU CAN MOVE/DELETE/SPLIT YOU POLYLINES
    2. WHEN MOVING POINTS TO INTERSECT, CLICKED ON THE MAJOR NODE POINT AND SELECT CONNECT TO NEAREST NODES.
12. BE SURE TO UPDATE THE LEVEL ZOOMS. GO TO FILE/MAP PROPERTIES
    1. ON THE LEVELS TAB, UPDATE THE FOLLOWING LEVELS:
       1. LEVEL0=24 ZOOM0=0
       2. LEVEL1=21 ZOOM1=1
       3. LEVEL2=19 ZOOM2=2
       4. LEVEL3=17 ZOOM3=3
       5. LEVEL4=15 ZOOM4=4
       6. LEVEL5=14 ZOOM5=5
13. CLICK TOOLS/REMOVE ROUTING NODES
14. CLICK TOOLS/GENERATE ROUTING GRAPH/USING COINCIDING POINTS ON ROADS
15. POLYLINES SHOULD BE ROUTABLE NOW. YOU CAN TEST THIS BY CLICKING TOOLS/TEST ROUTING GRAPH AND CREATING A START AND STOP POINT. THE ROUTE SHOULD SNAP TO YOUR POLYLINE. IF NOT DO THE FOLLOWING:
    1. CLICK TOOLS/REMOVE ROUTING NODES
    2. CLICK TOOLS/RESET EXTERNAL NODES
    3. CLICK TOOLS/GENERATE ROUTING GRAPH/USING COINCIDING POINTS ON ROADS
    4. CLICK TOOLS/FIX ROUTING ATTRIBUTES FOR ROADS
    5. TEST THE ROUTING AGAIN BY CLICKING TOOLS/TEST ROUTING GRAPH AND CREATING A START AND STOP POINT.
16. SAVE THE MAP AS A POLISH MAP USING TH ESAME 8 DIGIT ID YOU APPLIED IN THE MAP PROPERTIES SETTING
17. RENAME EACH SECTION OF YOUR TRACK TO A LOGICAL NAME.