

# Sketch drawing

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# Drawing tools

- Points: iconic symbols and labels (45)
- Lines (20)
- Areas: shaded regions (10)
  
- Extra tools
  - mining
  - archeology (artificial cavities)
  - paleology
  - biospeleo
  - geology
  - additional speleo

# Points

- System: “user” “label”
- Attributes
  - Orientation [degrees]
  - Size (XS, S, M, L, XL) [relative to medium]
  - Text / Value (optional)
- Special points: *label, audio, photo, section*
- Settings
  - Medium size units [pxl]
  - Label text size [pt]

# Lines

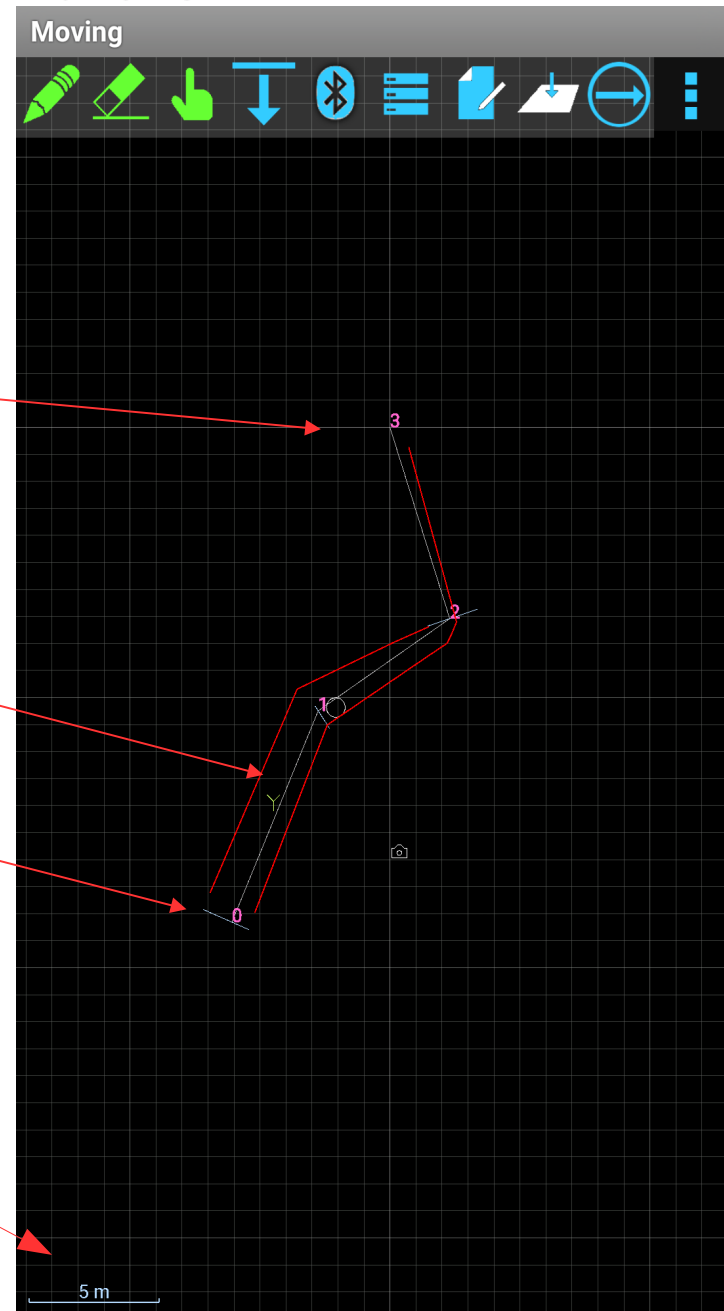
- System: “user” “wall”
- Attributes
  - Reverse (line “direction” points to the left of the path) (on/**off**)
  - Closed (on/**off**)
  - Outline (out / in / none)
  - Group
- Special line: *section*
- Settings
  - Width [pxl]
  - Style (fine / **normal** / coarse / smooth)
  - Point spacing [pxl]
  - ...

# Areas

- System: “user” “water”
- Attributes
  - Visible border (**on/off**)
  - Orientation (only areas with pattern) [degrees]
  - “Horizontal” flag (**on/off**)
- Settings (mostly same as for lines)

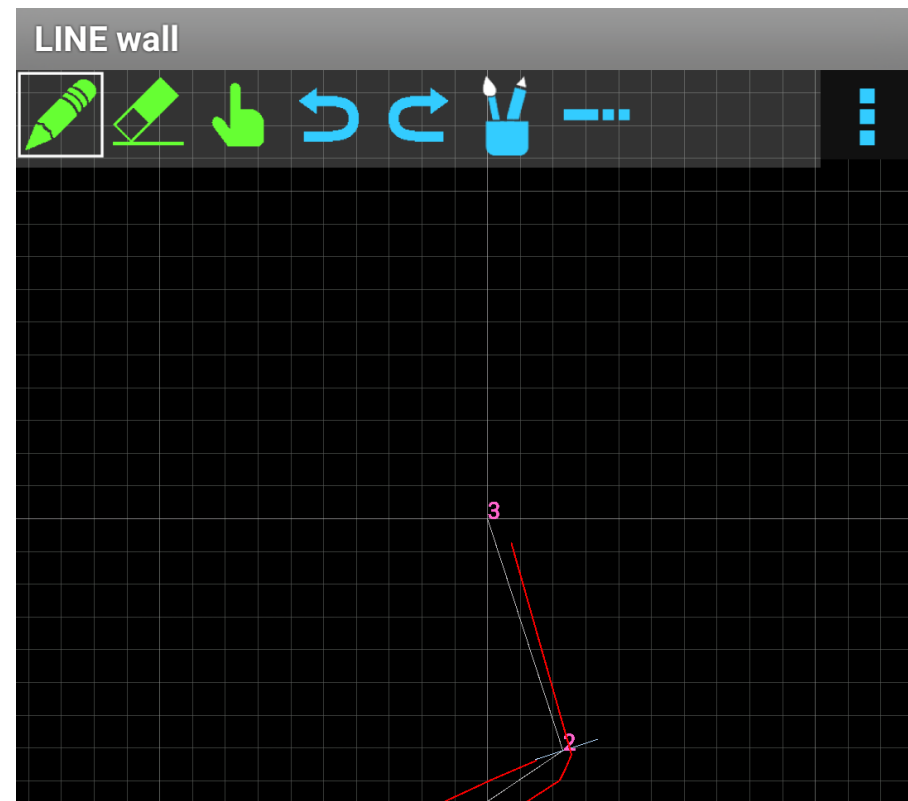
# Drawing references

- Grid (1, 10, 100 grid-units)
- Station names
- Midline
- Splays
- Scalebar
- Sketch outline



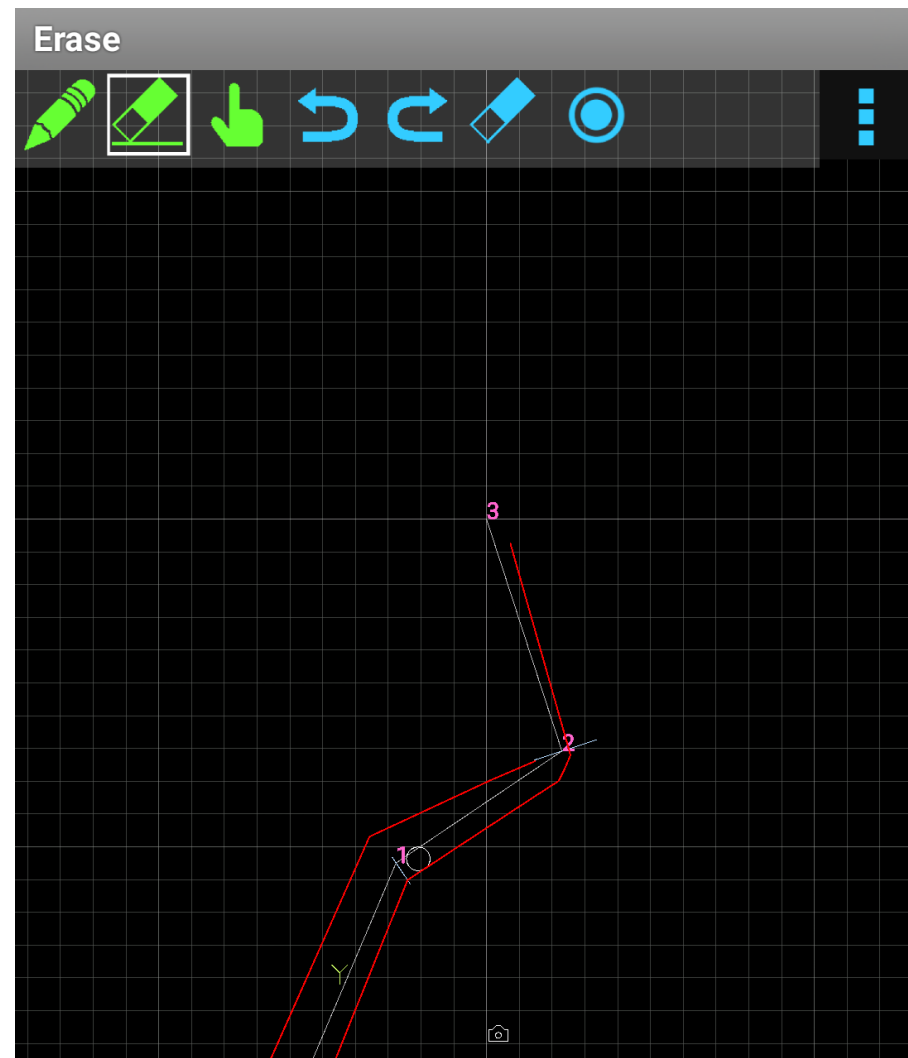
# Drawing mode

- Select the drawing tool
  - Point: tap where you want to put the icon/label
  - Line: trace the line (remember the “direction”)
  - Area: trace the contour
- Undo / redo
- Palette
- Line continuation/join



# Erasing mode

- Slide finger over the region to erase
- Undo / redo
- erasing mode
  - everything
  - only points
  - only lines
  - only areas
- eraser scale (S, M, L)





# Editing mode

- Tap to select items to edit
- select mode
  - everything
  - only points
  - only lines
  - only areas
- select scale (S, M, L)
- pointwise actions
- item attribute edit
- item delete
- line-point shift mode



# Point features

- Orientation (if applicable)
- Scale (XS, S, M, L , XL)

# Line features

- Line drawing style
  - Normal, fine, coarse, smooth
- Line continue/join
  - Continue: only for a line of the same type
  - Join: only with a line in the same group
- Line “range” shift mode
  - 1. choose the mode: window or box
  - 2. select one end of the range
  - 3. select the other end,
  - 4. move the line range

# Area features

- Border drawing style (same as for lines)
- Horizontal areas (only in profile / vertical cross-sections)