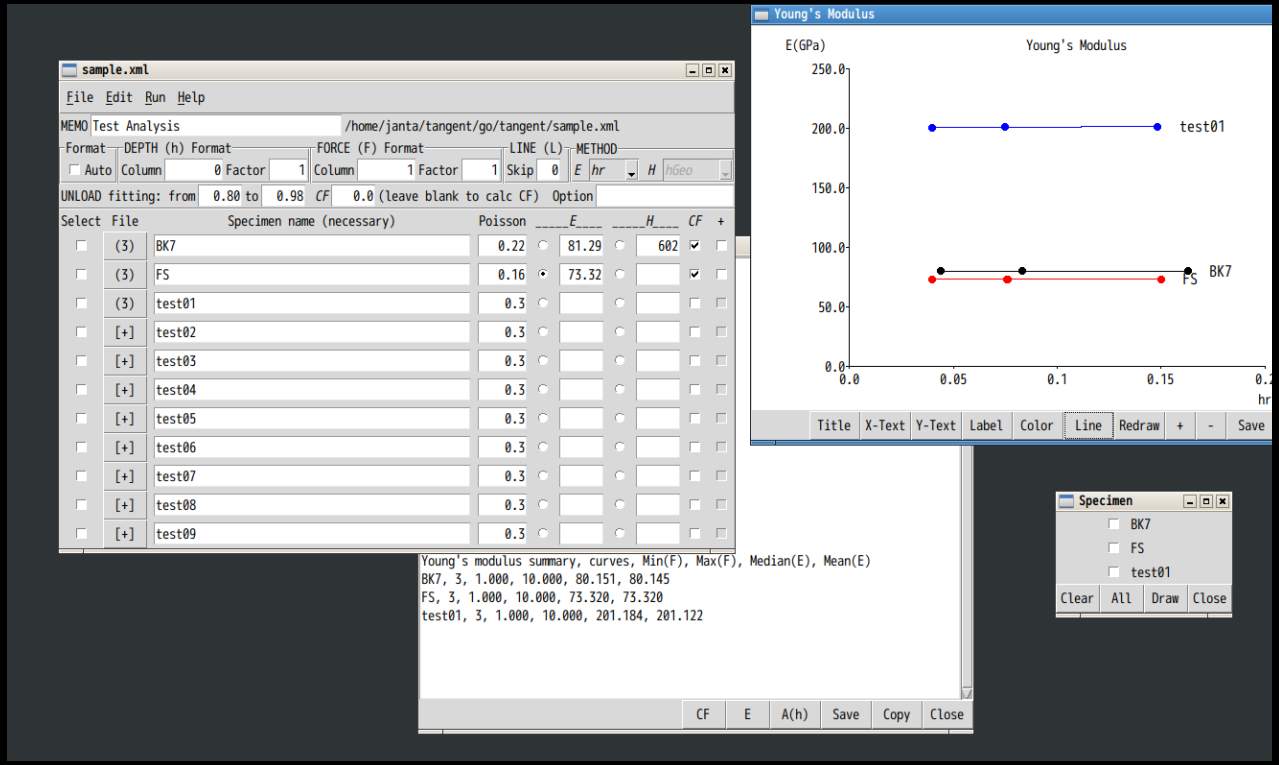
Introduction of tangentGo



K. MIYAHARA

tangentGo program

- Analysis for Instrumented Indentation Testing (IIT)
- Already proven method
- Windows/macOS/Linux
- Just click to run Simply unzip files to install
- GUI supported
- Free to use

For all IIT users

Analysis

- Proposed by Prof. Ishibashi: tangent depth analysis
- Input： Force-depth curves by commercial testers
- Output： Young’s modulus, Hardness, etc.
- File Setting: Read curves automatically
  (Manual setting available)
- Database： Standard specimens registered

and more updates expected

Performance of tangent depth analysis

- Applied to curves by 11 commercial testers
- The variation of Young's modulus is reduced to 1/2.5～1/5 by tangent depth analysis (tangentGo).
- The problems of outliers and standard specimens are also improved.

The tangent depth analysis has advantages and is proven with the same curves and conditions.

Graph functions

- Force-depth curves
- Young’s modulus
- Hardness
- Area function
- C_F (Frame compliance)

  and more

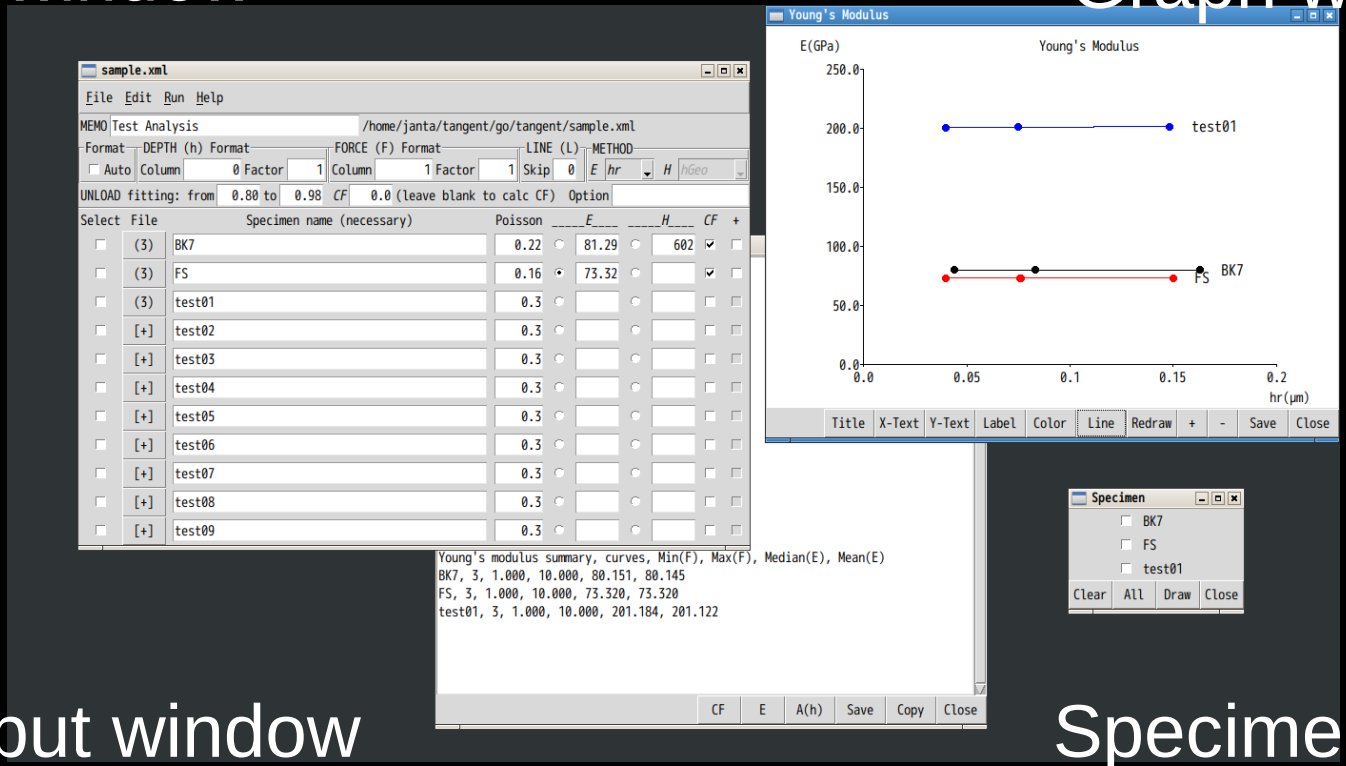
- ✓ Autoscale
- ✓ Pick specimens
- ✓ Color / Grayscale
- ✓ Save images
- ✓ Save plot data

Easy to create necessary graphs

Screen layout

Main window

Graph window



Output window

Specimen window

Multiple windows / GUI supported

Other functions

- Save / Load settings
- Copy / Paste results
- Help / Tooltip
- Debug information
- Batch run

For all IIT users, please test tangentGo with your own experimental data.

Download

- The tangentGo (β version) is available here.

https://3zip.net/t/en.html