

Changelog SimpleTree 4 - all Beta Versions summary

Changelog:

- **Beta_32 to Beta_33.06:**
 - Fixed a bug in DTM
 - switched standard allometric correction approach to Xu et al.
 - Fixed a bug in statistical outlier filtering
 - Lisence added and opening of source code
- **Beta_31 to Beta_32:**
 - Adjustment of steps input and output configuration
- **Beta_30 to Beta_31:**
 - Change in the allometric scaling correction approach
- **Beta_28 to Beta_30:**
 - Change in the parameter optimization
- **Beta_21 to Beta_28:**
 - Bugfix in Segmentation. Should work better now
 - Bugfix in DTM modelling
 - Prevented some crashes in filtering where empty clouds were produced.
 - Added an exporter for ascii 1 file / scene. You can also export the segmented tree clouds directly in my exporter step.
 - Added an exporter for DTM to ply
- **Beta_17 to Beta_21:**
 - Improved the Segmentation runtime. It is down to 2 minutes for some test plots.
 - Added a SimpleTree DTM step
 - Improved few Dialogs
 - Added a low quality option for the segmentation
 - Made step optional (Upscaling, if number iteration set to 0)
- **Beta_15 to Beta_17:**

my final version of my project pipeline. Final does not mean single steps do not get improved anymore, 2 steps even might still be replaced. Regarding the input and output of the pipeline though nothing changes. Fixed a lot of bug and improved both modelling as well as segmentation. Two more dedicated de-noising steps which had been removed are readded. Take those with care, they are quite untested.
- **Beta_14 to Beta_15:**

fixed a bug where cut_height was computed correctly but not used for DBH, height and length computation. All three parameters should now be usable.
- **Beta_10 to Beta_14:**
 - Major fit quality improvement, also improved modelling of young trees.
 - No change to the output csv format to be downward compatible regarding further analysis
 - Added a few steps to make plot level analysis more comfortable. There is one step included which can get rid of segmented undergrowth for example.
 - For users who work on plot level, outputfiles which are created adapt their name from your plot cloud.
 - DBH is estimated by DTM, not from cutheight as user input. You do not have to give this value in an input file anymore.

- **Beta_07 to Beta_10:** added plot level processing tools. Improved fit quality. Fixed a lot of bugs. Added various output options. Video tutorials are contained as well.
- **Beta_06 to Beta_07:** several minor improvement procedures included and minor bug fixes implemented. Changed the user documentation also slightly.
- **Beta_05 to Beta_06:** added a lot of point cloud steps like de-noising. Fixed minor bugs and updated complete user documentation
- **Beta_04 to Beta_05:** improved the fit quality for all modellings.
- added test data

- **Todo:** output, input, tutorials, acknowledgements, release. std out filter should be multithreaded. transfer step for segmentation.