

Model Creation

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Motivation:

many of our methods depend on an exact knowledge of the machine configuration recreating the exact machine configuration by hand is error prone and tedious

Two use cases

- during measurement, online model
- when reanalysing old data (maybe far in the future)

Current status:

- OK using pre-2021 optics but limited functionality
- OK using the new acc-models repository
- NOT YET using tags but code is ready
- X Knob extraction prototype ready, see below

Tasks:

extract knob settings, selected by category (disp, xing, ...) and timestamp

Examples:

call knob extractor with ISO time string

python knob_extractor.py xing sep chroma --extract '2022-04-26T15:00:00'

call knob extractor with 'now'

python knob_extractor.py xing sep chroma --extract now

Tasks:

extract knob settings, selected by category (disp, xing, ...) and timestamp

Examples:

output
! File created by knob extractor
! knobs extracted for time 2022-04-26 15:00:00
! xing
on_x1_v := 0.0;
on_x5_h := 0.0;
! sep
on_sep1_h := 0.0;
on_sep5_v := 0.0;
! chroma
dQpx.b1_op := -16.82;
dQpy.b1_op := -1.5;
dQpx.b2_op := -15.52;
dQpy.b2_op := -2.8699999999999999;