## How to set and control GRIT parameters in cfg files

## A typical cfg-file example

override = merge

override = move

override = move

## Step 1: First specify what operations to use

```
operations = vertex split move merge coarsening interface coarsening refinement interface refinement smoothing interface smoothing optimization
                               = remeshing_params/vertex_split.cfg
import params vertex split
                                                                          Step 2: Create some namespaces from
                               = remeshing params/move.cfg
import params move
import params merge
                               = remeshing params/merge.cfg
import params_coarsening
                               = remeshing_params/coarsening.cfg
                                                                          other cfg-files
import params_interface_coarsening = remeshing_params/interface_coarsening.cfg
import params_refinement
                               = remeshing_params/refinement.cfg
import params_interface_refinement = remeshing_params/interface_refinement.cfg
                                                                    # Laplacian smoothing of non-interface vertices
import params_smoothing
                       = remeshing_params/smoothing.cfg
import params_interface_smoothing = remeshing_params/interface_smoothing.cfg
import params_optimization
                               = remeshing_params/optimization.cfg
                                                                    # edge flip optimization
#syntax: assign = operation_nameX label_valueY scope_name;
assign = vertex split
                           0 vertex split
assign = vertex_split
                           1 vertex_split
assign = move
                           1 params move
                                                        Step 3: Assign values from namespaces to
assign = merge
                           0 params_merge
assign = merge
                           1 params_merge
                                                        operations when working on specific phases
assign = coarsening
                           0 params coarsening
                           1 params coarsening
assign = coarsening
assign = interface_coarsening 0 params_interface_coarsening
assign = interface coarsening 1 params interface coarsening
assign = refinement
                           0 params_refinement
assign = refinement
                           1 params_refinement
assign = interface_refinement 0 params_interface_refinement
assign = interface_refinement 1 params_interface_refinement
assign = smoothing
                           0 params smoothing
assign = smoothing
                           1 params smoothing
assign = interface_smoothing 0 params_interface_smoothing
assign = interface_smoothing 1 params_interface_smoothing
assign = optimization
                           0 params_optimization
assign = optimization
                           1 params_optimization
#syntax: override = operation_nameX label_valueY parameter_nameX parameter_valueY
override = interface refinement 0 max iterations 0
                                                     # Turn off interface refinement for ambient space
override = interface_coarsening 0 max_iterations 0
                                                    # Turn off interface coarsening for ambient space
override = interface_refinement 1 lower_threshold 0.04
override = interface_coarsening 1 upper_threshold 0.001
                                                         Step 4: Override assigned values to
override = refinement
                             1 lower_threshold 0.05
override = coarsening
                             1 upper_threshold 0.001
                                                          customise behaviour
                             0 lower_threshold 0.08
override = refinement
override = coarsening
                             0 upper_threshold 0.02
override = merge
                             0 angle threshold 175.0
```

1 angle\_threshold 175.0

0 strength 0.99

1 strength 0.99