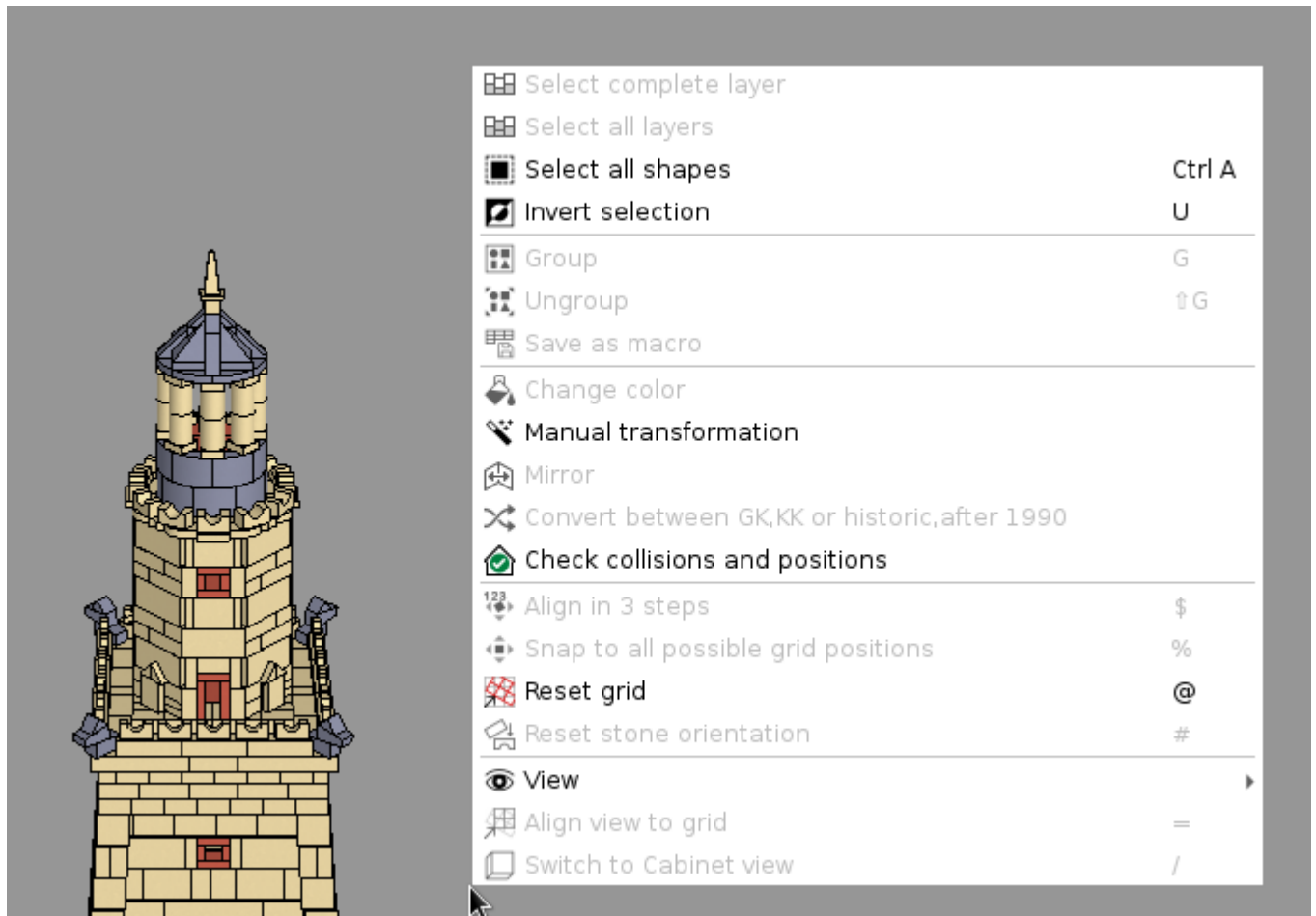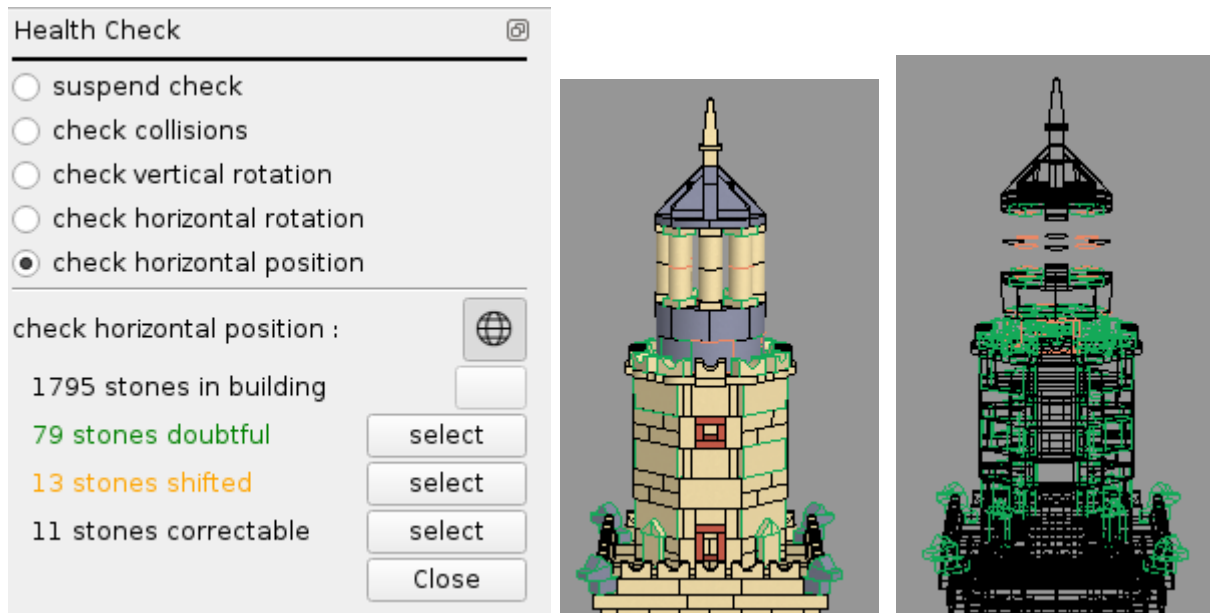# Using AnkerPlan 2.6.4 to correct alignment errors

From a mail of Andreas Rodin on September 2, 2023

 In the context menu you will find the new item 'Check collisions and
 positions'. Pressing that will open the 'Health Check' panel:

In the top area there are radio-buttons to specify the type of check
 to be applied:

 - suspend check

    This button suspends any check. As long as the panel is active the
    selected check will be applied on the fly whenever the building is
    modified or reloaded. These checks may take a long time for large
    buildings (for instance the collision check takes of order 2
    minutes for the Castle from 1894). So it may be recommended to
    disable the checks temporarily.

 - check collisions

    Checks if there are any collisions of stones.

 - check vertical rotation

    Checks if the bottom surface of each stone is aligned
    horizontally. If this is not the case subsequent checks (horizontal
    rotation and position) cannot be conducted. However in some cases
    stones may be posed deliberately in skewed orientation.

This and the subsequent checks correspond to the 3 alignment
steps
   which can be imposed on single stones or group of stones by
the
   $-key.

 - check horizontal rotation

   Checks if any of the bottom surface edges is oriented along
the
   (optionally rotated) coordinate axes. If this is not the case
the
   subsequent check (horizontal position) cannot be conducted.

 - check horizontal position

   Checks if the bottom surface edges are aligned with the
(optionally
   rotated) 1/16 Ankerstein-Unit grid.

 The bottom area shows the results of the check, the type of any
 applied filter, and if the position of misplaced stones can be
 corrected automatically:

 - number of stones in building or
   number of stones filtered   or
   number of stones selected

   This line reveals the number of stones the respective check is
   applied to. This may be the whole building, group of stones
   restricted by some filter (layer, etc.), or just the selected
   stones.

 - number of stones doubtful

   Stones the check could not be applied to. In case of the
horizontal
   orientation and position check these are the stones that
didn't
   pass the previous check (vertical and horizontal orientation,
   respectively). In case of the collision check the test
procedure
   may be abandoned early for individual stones if it takes too
much
   time.

- number of stones colliding or
   skewed   or
                           shifted

    Stones that did not pass the respective test.

  - number of stones correctable

    Stones those position or orientation can be corrected
    automatically. This may possible only for a subset of the
misplaced
    stones. In order to correct position or orientation the
respective
    stones must be selected first. Stones are misplaced
deliberately so
    that automatic correction may not be appropriate in any
    case. Collisions cannot be fixed automatically.

 The selected/doubtful/misplaced stones are indicated in the
building
 by colored contours or surfaces. For better visibility the wire-
frame
 view may be activated. The lines revealing the particular number
of
 stones are colored respectively.

 Some more examples for specific filter settings are given below:
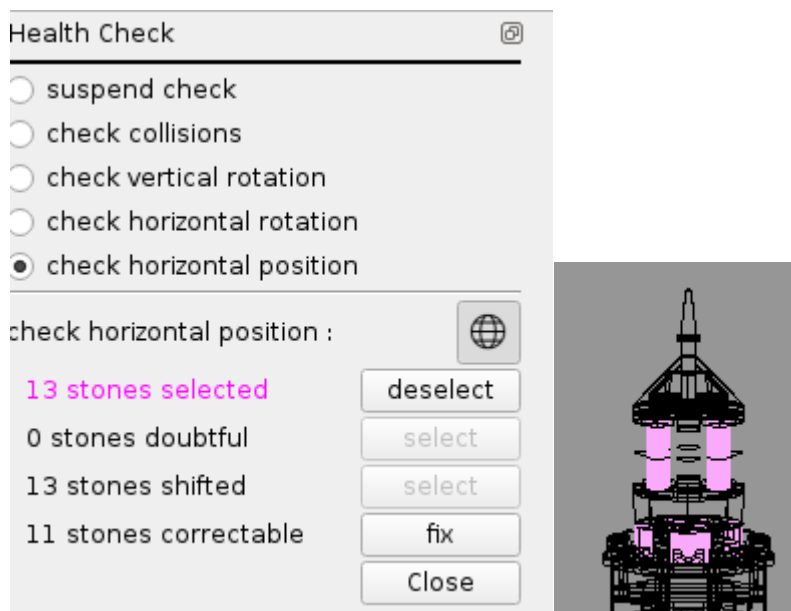
Health Check

- ○ suspend check
- ○ check collisions
- ○ check vertical rotation
- ○ check horizontal rotation
- ● check horizontal position

check horizontal position :

24 stones filtered

16 stones doubtful   select

4 stones shifted   select

2 stones correctable   select

Close