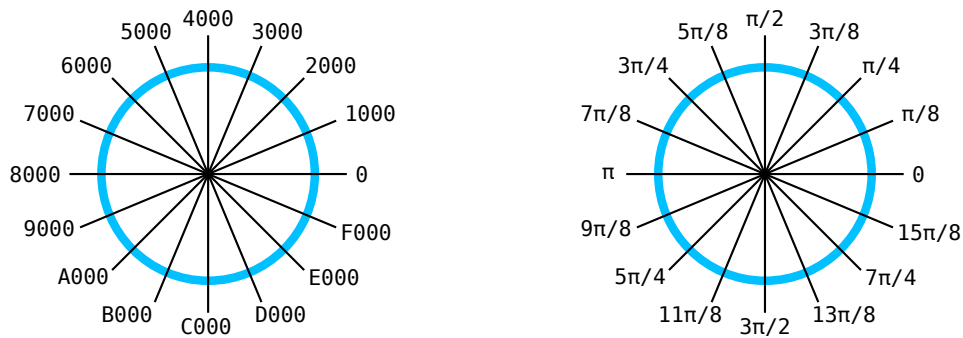


The Granite watchface displays time in the HH:MM format with a 10-second precision.

Each digit is displayed as a rotating cube.

All 4 digits rotate around the same horizontal axis.



For aesthetics, each digit's angle depends on the previous one's value.

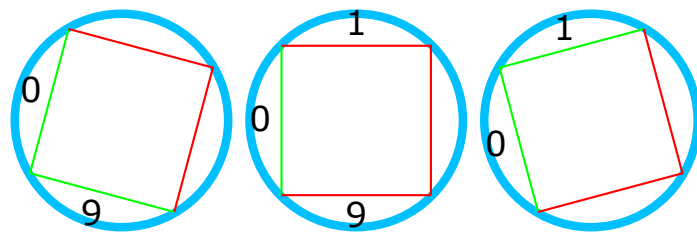
But this would be confusing if for example, the time was 19:55:

1 would be almost invisible (because of the 9) and would be "crushed" by the 2 on the top.

The display would rather look like 29:55.

To avoid this, instead of having a full 90° rotation for one unit, a 45° one is done with an offset of  $45/2=22.5^\circ$  for centering.

When the previous digit wraps from 9 to 0 (or 5 to 0), the remaining 45° of rotation are caught up with a short animation, effectively showing the new value.



Digits are actually rendered in 2 faces or "panes": top and bottom.

Top is future or current value, bottom is current value or past.

Since only two faces of the cube are shown at any time, they are rendered and swapped as so to give the illusion of more than two faces.

