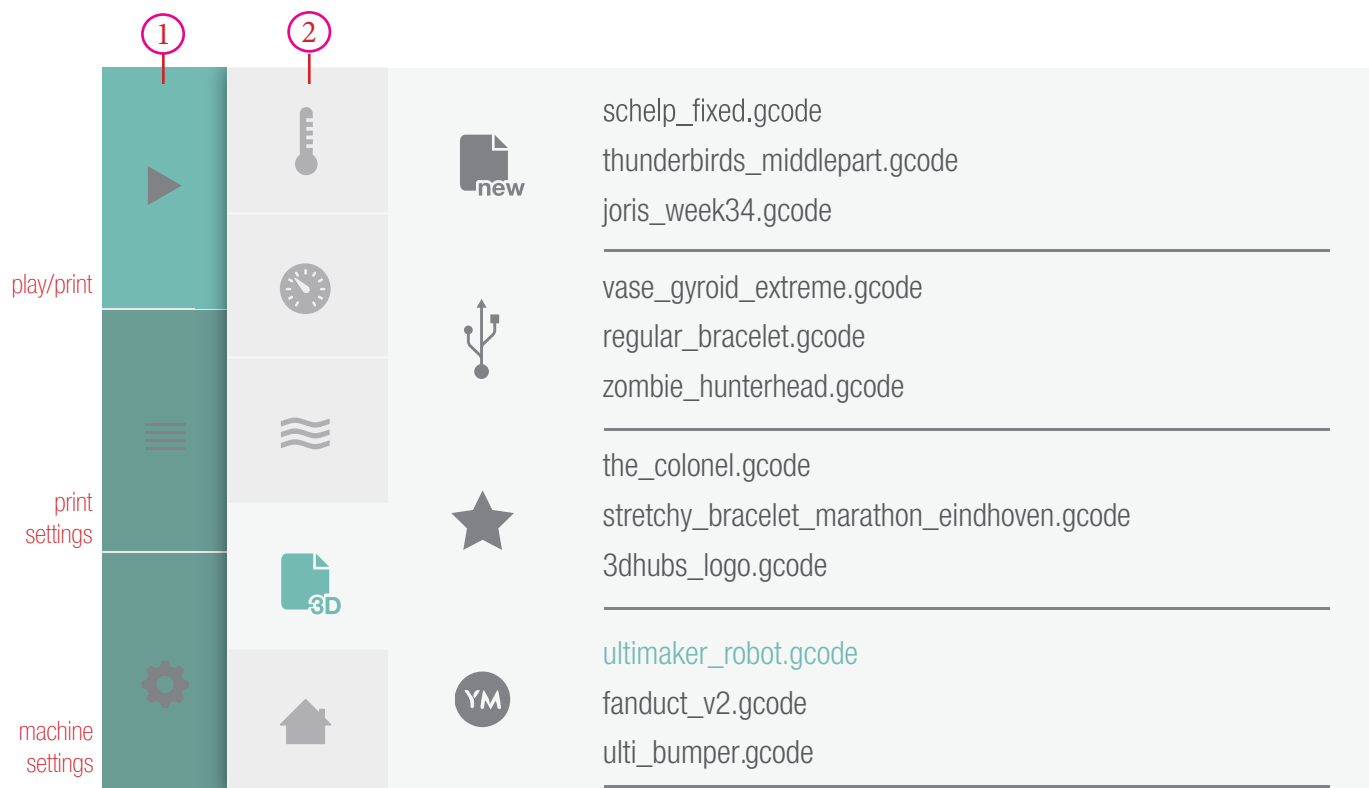


MARLIN GUI

work in progress
17-11-2013



The 'main menu' is shown always on the left, indicated by point 1. It contains three buttons, **'Play/Print'**, **'Print settings'** and **'Machine settings'**.

'Play/Print'

Marlin will start-up with the Play/Print open as default. A second bar with **quick buttons** is placed next to the 'main menu' bar. The quick buttons will be dynamic, depending on the machine state.

'Print settings' will feature a full list of print settings. This list will be dynamic depending on the machine state, pre print or during print. It might feature upto 24 small icons or fewer large icons. Ideally these icons should feature 'live information' immediately showing relevant printer settings such as temperature, speed, flow etc.

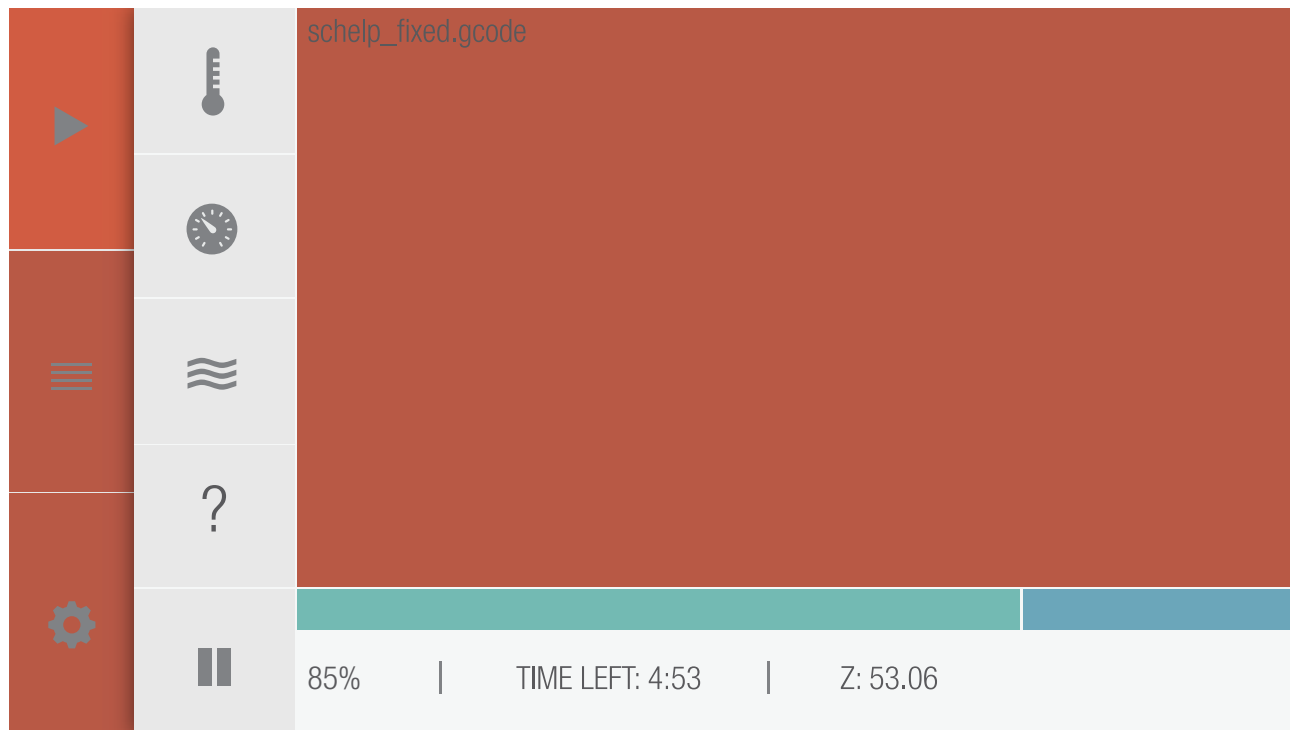
'Machine settings'

In this menu settings related to the machine will be shown. These settings will be used by 'pro users' but

entry level users will not be likely to make changes to these settings.

'Play/Print' > 'SDCARD'

This menu is used to select a print file. The 4 categories, 'New', 'USB', 'Favorite' and 'YouImagine' make finding the appropriate file and 'archiving files' easier and more efficient.



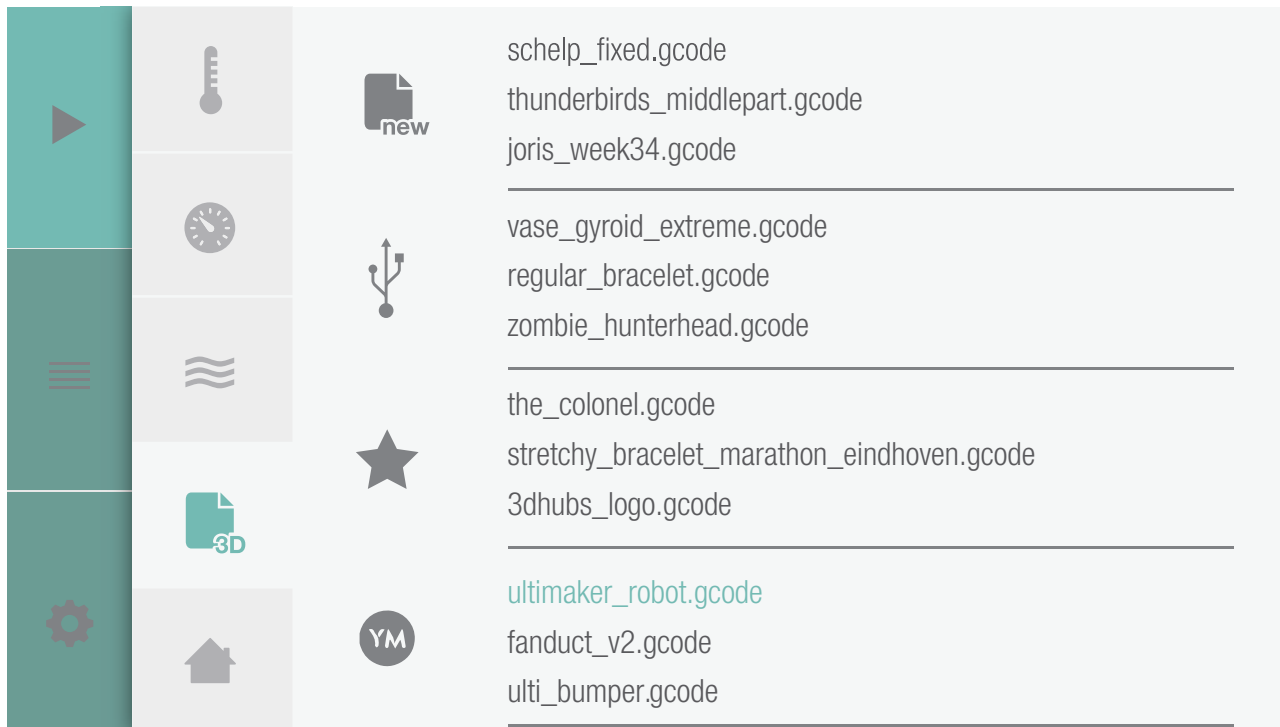
'Watch screen' when printing the 'play/print' button is highlighted and as a default the watch screen is shown. The watch screen shows relevant information about the print that is in progress. The bottom bar features a progress bar, percentage counter, time left and z height indicator.

The 'quick buttons' will now feature settings that are relevant while printing is in progress, such as temperature, speed, flow and etc.

The main screen can be used for many purposes. For instance showing current layer being printed, 3d rendered stl model and etc.

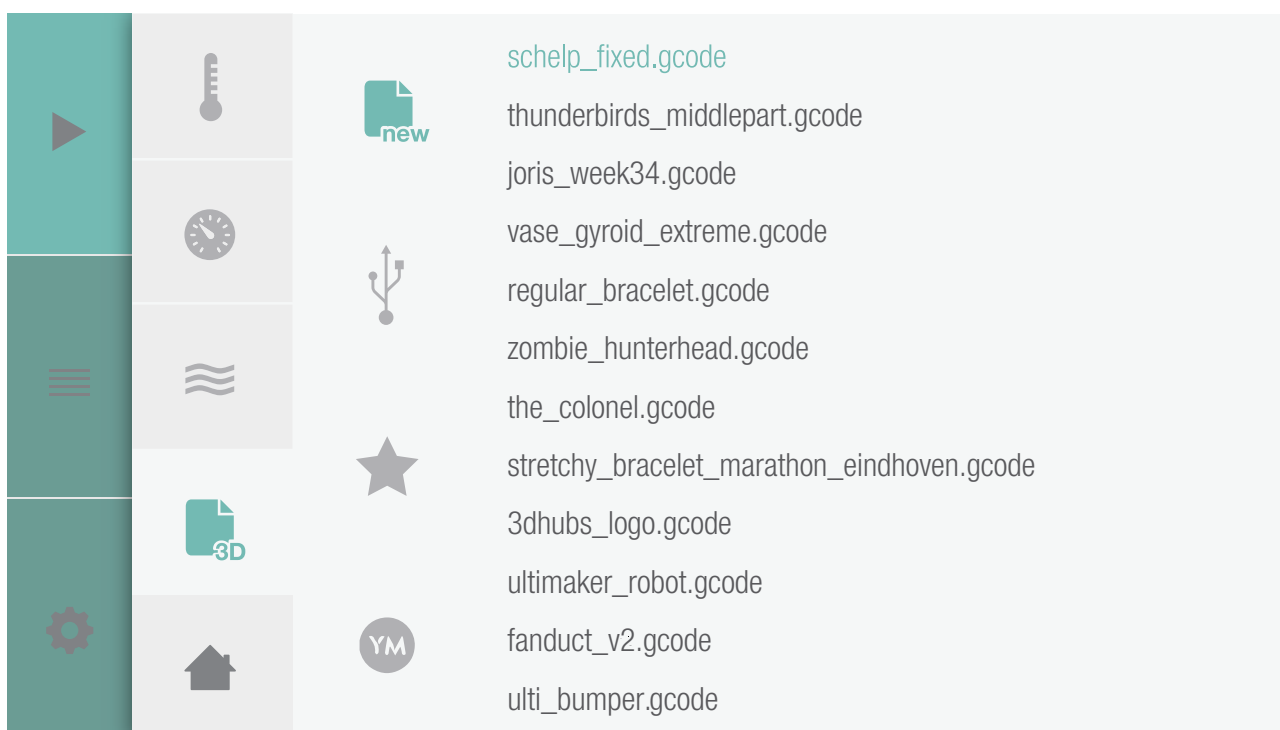
MARLIN START SCREEN

Selecting a file to print. No category is selected, so the three latest files of each category are shown. The very latest file is highlighted.



'FILE SELECTION'

The category 'new' is selected and the file schelp_fixed.gcode is chosen for printing.



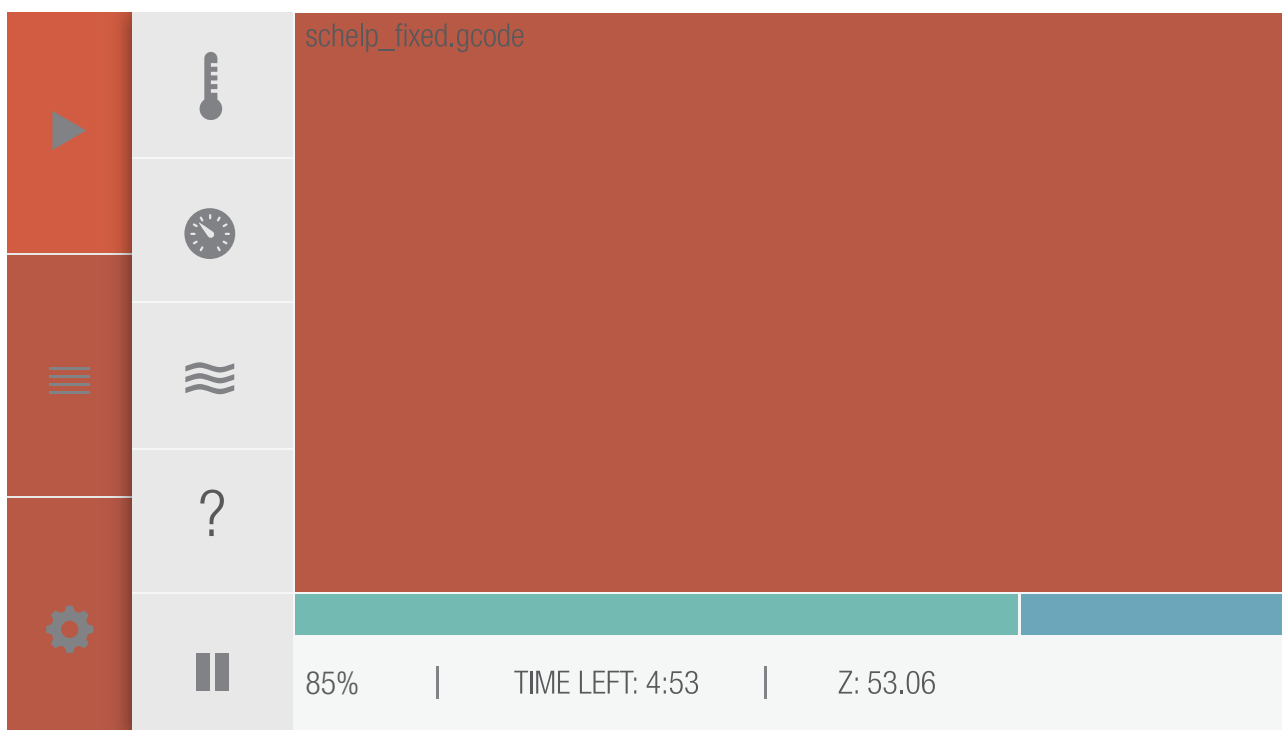
“PREPARE SCREEN”

Selected file will show up as rendered image or toolpath visualisation. Print time and estimated weight is shown in lower bar. Oke button will start print, cancel button will return to file selection menu.



‘DURING PRINT SCREEN’

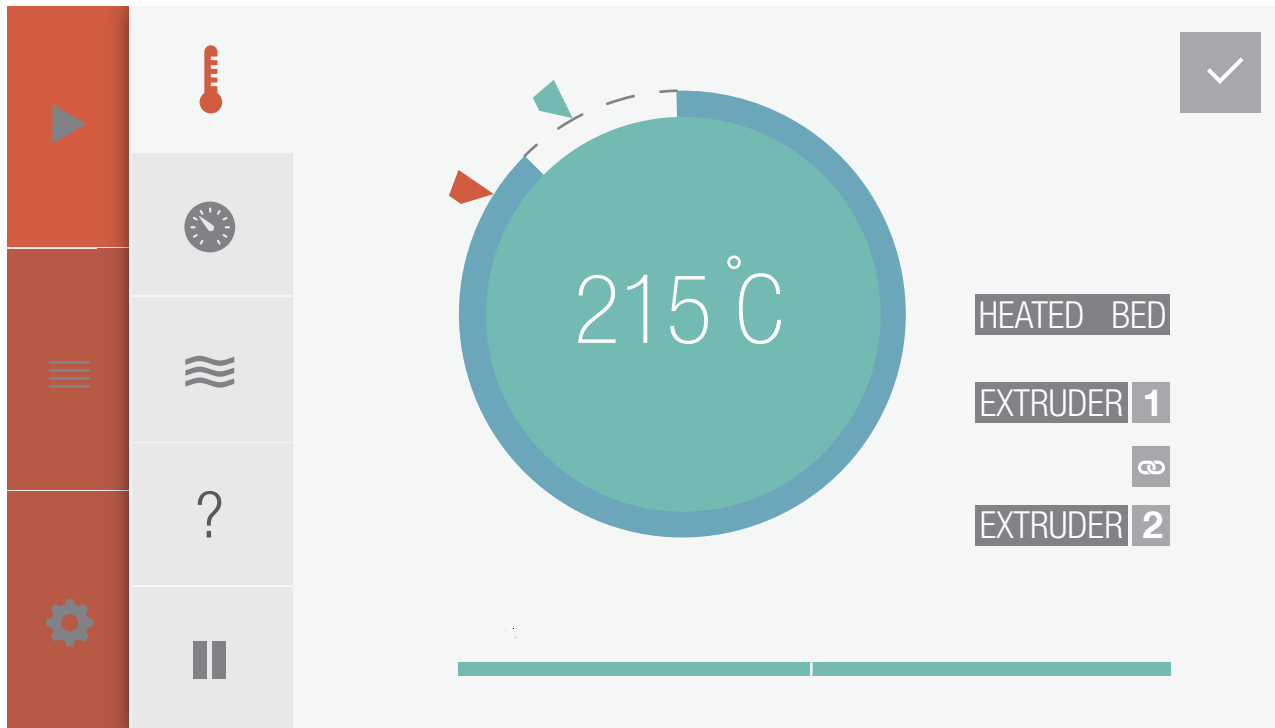
The colorscheme has changed to indicate that the current machine state is printing. Icons in quick selection menu have changed with the machine state.



'ADJUST TEMPERATURE SCREEN'

Before printing and while printing the temperature can be set. Extruders can be linked to heat up at the same time or unlinked to heat separately. Flags can be placed to indicate preheat settings for different materials.

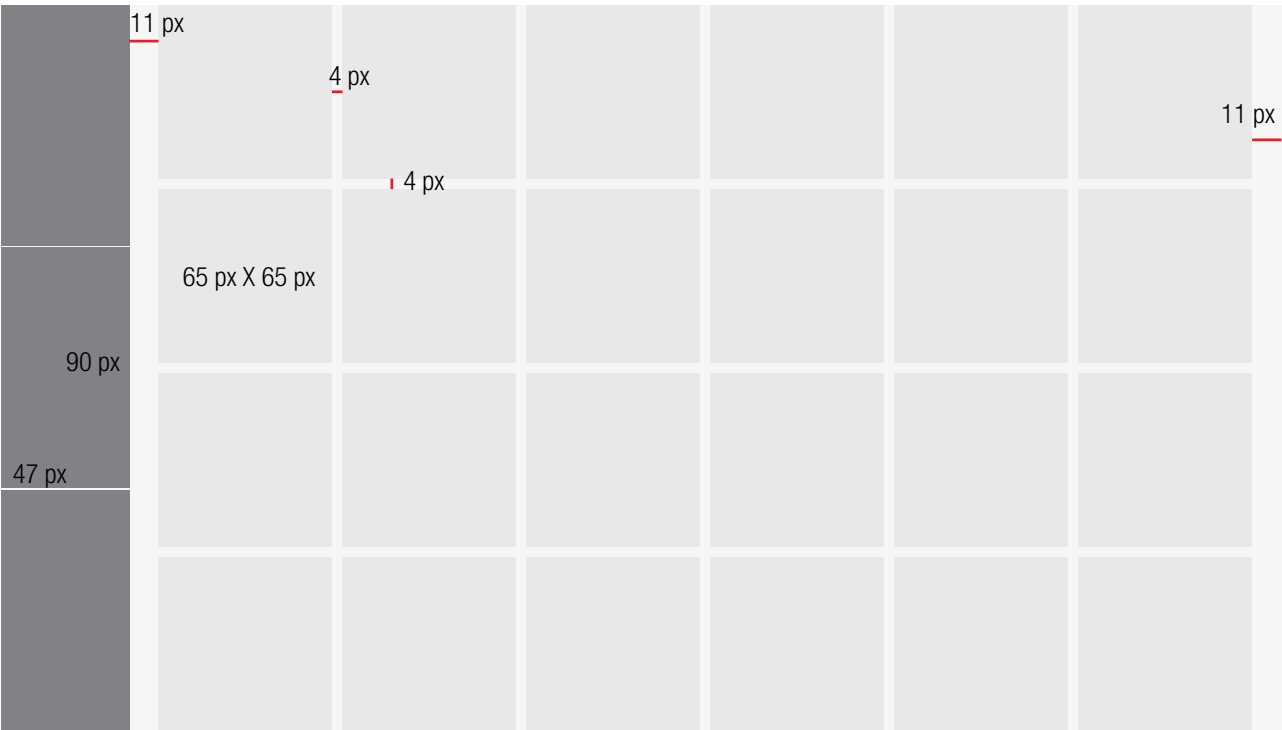
A similar screen can be used for adjusting print speed and flow rate.



GRID - MARLIN GUI

Screen size is 272 px by 480 px.

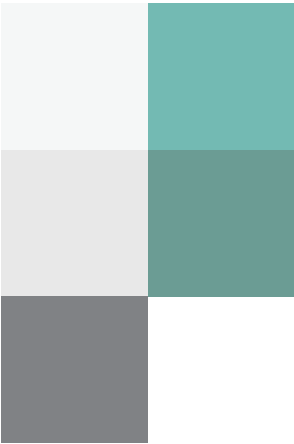
Buttons must be aligned with the pixelgrid of the screen. Therefore buttons will be rounded to full pixels and icons will be aligned to pixel grid too.



COLOR - MARLIN GUI

Colorschemes will be used to differentiate between various machine states. A basic set of white, beige and grey will be used through out the interface. A set of colors will be used to highlight aspects of the interface, this color will vary to show machine state, 'pre-print' or 'during printing'

Pre Print state



During Print state



Extra



ICONS - MARLIN GUI

Icons will be simple flat representations of the function, feature or action of the button.



MARLIN MENU TREE

