

UI Designing and Prototyping: Report

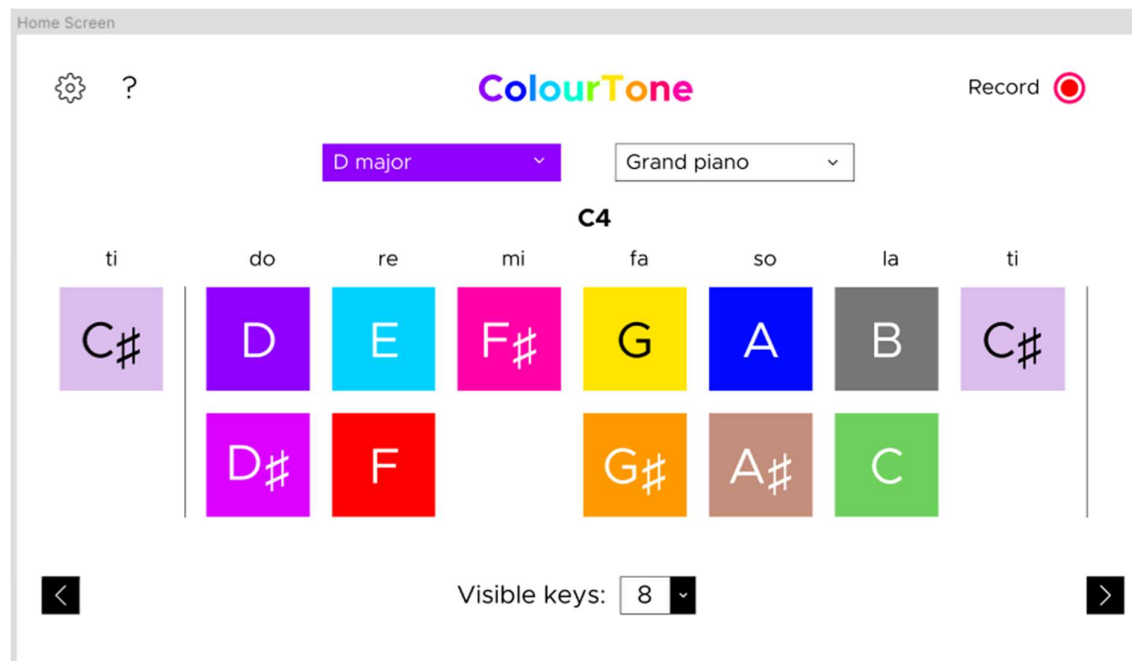
INTRODUCTION

In this section I would like to introduce the basic visual layout of my website, ColourTone, which provides a new way to play musical notes through colour associations. Users can play a range of instruments by clicking or tapping the same set of buttons on the screen. In the long term I also plan to support key and colour configurations and the ability to record and save music.

USER INTERFACE LAYOUT

The main screen of the app is presented below. The coloured notes occupy the main area of the screen, with various settings on the top. In the top left are icons for settings and help, while the top right has an icon to record. Below the site header are the current chord (along with major/minor) and the instrument selected. The C4 refers to the current octave (pitch) of the music.

At the bottom are left and right arrow buttons which can be used to go to the previous or next octave. The number of visible keys on the screen is shown at the bottom and can be changed.



NAVIGATION

The website functions mostly from a single page, with a settings page and a help pop-up being the only additional pages required. The settings icon in the top left corner takes the user to the below screen. In the top left corner are icons to cancel and bring up the help menu. In the top right corner is an option to save settings.

The first option, 'Solmisation', refers to the names of the notes displayed above the corresponding buttons, used to aid those who are not familiar with the names C, D,

etc. This can be changed from the default *solfège* system (*do-re-mi*) to *sa-re-ga-ma-pa* that is used in Indian classical music, among others.

There are also options to change the keys used to play certain notes (applicable only for computers, not mobile screens) and the colours for the keys. Key colours can be changed individually or all the keys can be chosen from a predefined theme. In the below example, all the key colours have been chosen individually.

The image shows a settings dialog box titled "Settings" with a "Cancel" button and a "Save" button. It contains three sections: "Solmization" with a dropdown menu set to "Solfège (do-re-mi)", "Key mappings" with a "Select..." button, and "Colours" with a "Select theme..." button. Below the "Colours" section is a grid of 12 colored squares, each labeled with a musical note: C (green), C# (purple), D (blue), D# (pink), E (cyan), F (red), F# (magenta), G (yellow), G# (orange), A (dark blue), A# (brown), and B (grey).

REFERENCES

The above prototype can be found at the following link for reference.

<https://www.figma.com/file/bJHGxRmIRG8Mpuwbk1T91I/ColourTone-Wireframe>