

Programming Applications (PRA), Small Group Tutorial 1, “You used to call me on my cellphone”

Please review the document marked ‘What is a Code Dojo?’ on KEATS before attending your first Small Group Tutorial session.

If you have any feedback about the format of your small group tutorial sessions, please email Martin and Steffen. If there are reasons noted in your KIP (if you are unaware of what a KIP is, then this instruction does not apply to you), or hitherto undisclosed reasons, that would make participating in the session in the proposed way difficult or impossible, please also let us know.

1 Frames, Components and Layout Managers

In the second PRA lecture, you learnt more about frames, and we introduced the idea of components, and layout managers that can be used to position those components in a certain way. In this SGT, working together as a group, you will work out how best to replicate Apple’s iOS keypad, as shown in Figure 1 (sorry Android users).

It’s likely that your finished product won’t look exactly like the graphic shown (who could replicate the glamorous UX offered by Apple), but the key thing is the components, and their relative positions.

Moreover, your keypad won’t do anything, as we haven’t yet learnt how to attribute actions to components, but that’s fine for now.

For symbols, you can use keyboard punctuation (e.g. <), or you might like to consider using Unicode symbols that can be rendered by Java (see <http://www.ssec.wisc.edu/~tomw/java/unicode.html> and <http://www.fileformat.info/info/unicode/char/search.htm>).

In Figure 2, I have given a proposed top-level division of the frame into panels.

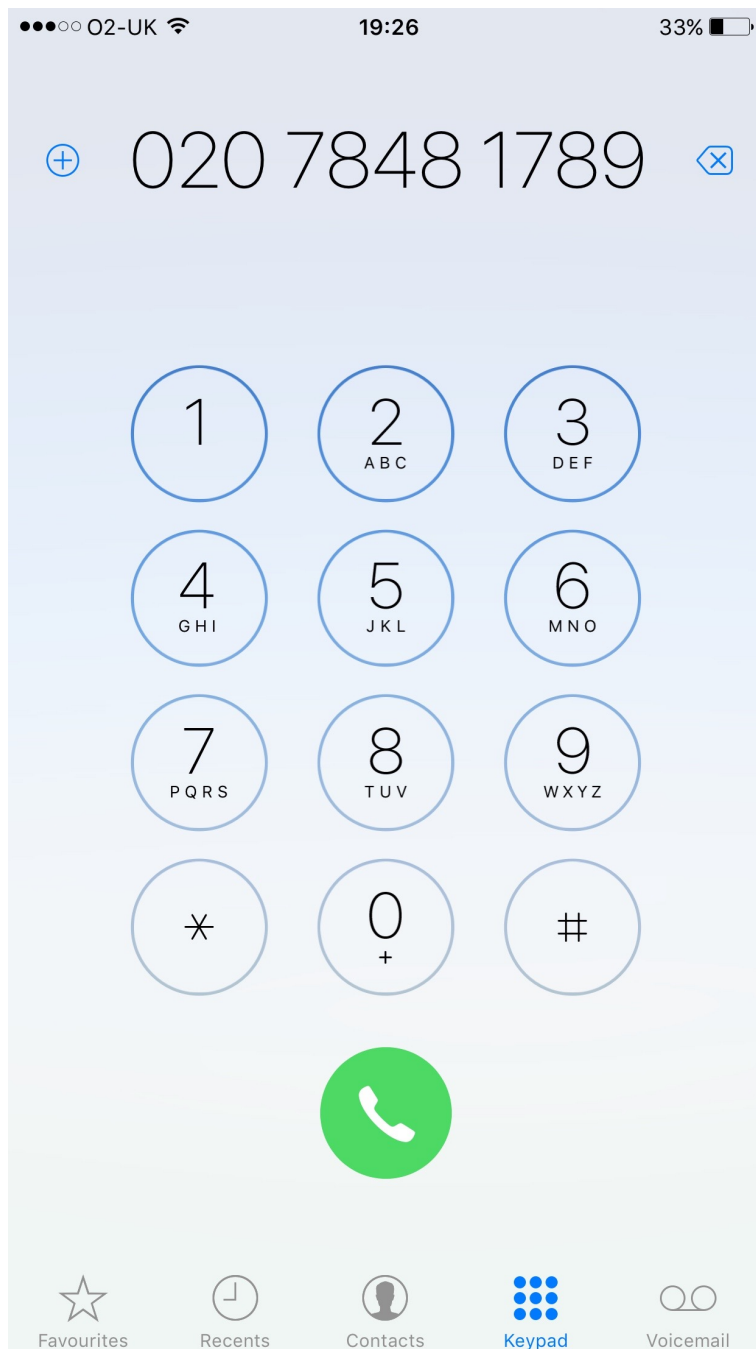
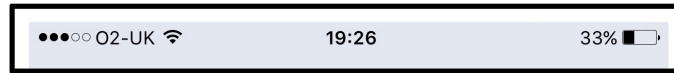


Figure 1: Apple iOS Keypad view

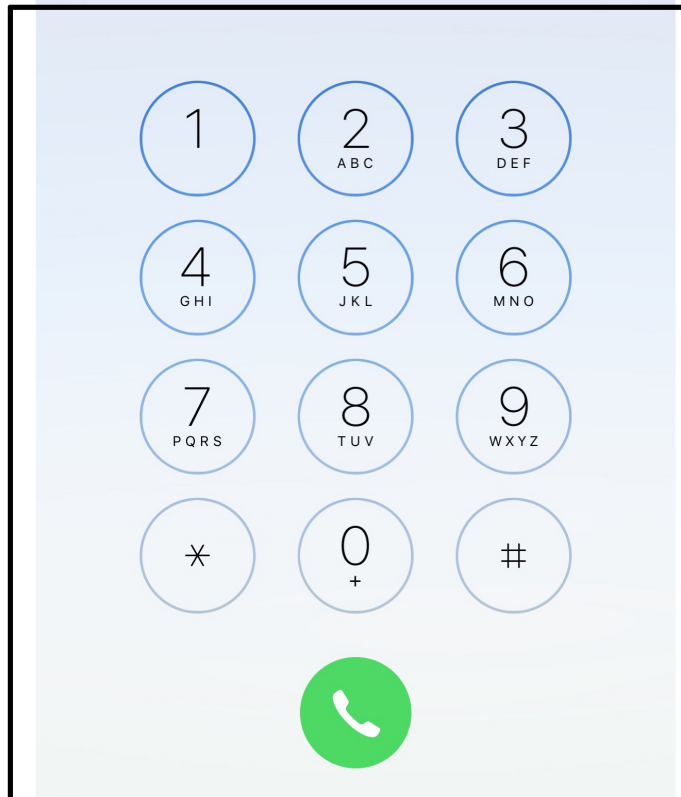
Title Bar Text



Panel with components



Panel(s) with components



Panel with components

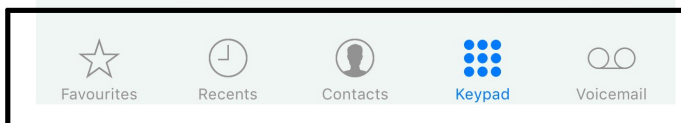


Figure 2: Proposed top-level division of frame into panels