



HUMAN COMPUTER INTERACTION –CS351

Lab-Assignment #7: Implementation Support

Computer Science Department

2018-2019



Exercise #1:

Case study:

- Scrolling is an effective means of browsing through a document in a window that is too small to show the whole document. Compare the different interactive behavior of the following two interaction objects to implement scrolling:
 1. A scrollbar is attached to the side of the window with arrows at the top and bottom. When the mouse is positioned over the arrow at the top of the screen (which points up), the window frame is moved upwards to reveal a part of the document above/before what is currently viewed. When the bottom arrow is selected, the frame moves down to reveal the document below/after the current view.
 2. The document is contained in a textual interaction object. Pressing the mouse button in the text object allows you to drag the document within the window boundaries. You drag up to browse down in the document and you drag down to browse up.
- The difference between the two situations can be characterized by noticing that, in the first case, the user is actually manipulating the window (moving it up or down to reveal the contents of the document), whereas, in the second case, the user is manipulating the document (pushing it up or down to reveal its contents through the windows). What usability principles would you use to justify one method over the other (also consider the case when you want to scroll from side to side as well as up and down)? What implementation considerations are important?