

# Software Testing Mentor Job Aid


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## Basic complex script input testing – Hindi

Unlike East Asian input complex script languages do not require an additional utility program or Input Method Editor (IME) for input. However, complex script languages (Hindi, Arabic, Hebrew, and Vietnamese) are based on glyph manipulation. A glyph is the physical appearance of a character, and with complex scripted languages the physical appearance of a character can change depending on what characters proceed or succeed that character. Thus complex script input is dependent on key sequencing (the correct order of key inputs) to generate a valid input string. Typically most developers consider one keystroke to represent one character; however, with key sequencing and complex scripted characters it may sometimes require multiple key presses to represent a single character.

Complex script is not synonymous with bi-directionality or mirroring. Additionally, not all complex script languages (Hindi and Vietnamese for example) are bi-directional. Also note that not all text boxes (e.g. Start -> Run) support bi-directional text layout, but all edit controls should correctly handle and process strings containing complex scripted characters.

### Hindi input test for proper key sequencing

Step	Action	Expected Result
1	Ensure the system is configured for complex script language support and the Hebrew keyboard layout is installed. <b>Note</b> See Installing supplemental language support and international keyboard layouts job aid.	
2	Set focus to the edit control in the application under test. <b>Note</b> The application (or edit control) under test must have focus when changing the keyboard layout.	
3	Select the Hindi (HI) keyboard layout in the Language bar.	
4	Type <b>Gndnem.</b>	

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### Hindi input test for proper glyph manipulation

Step	Action	Expected Result
5	Repeat steps 1 through 3 above.	
6	Type <b>Gndnem</b>	उल्लास
7	Press the <b>left arrow</b> key twice. <b>Note</b> The cursor should be between the first and second characters.	उ ल्लास
8	Press the <b>Delete</b> key. <b>Note</b> Complex scripts do not behave similar to western scripts when deleting characters, adding characters, or otherwise modifying a string.	उस

### Hindi input test for proper glyph manipulation

Step	Action	Expected Result
9	Repeat steps 1 through 3 above.	
10	Type <b>Gndnem</b>	उल्लास
11	Press the <b>left arrow</b> key once. <b>Note</b> The cursor moves between the second and third characters in the string.	उल्ला स
12	Press the <b>Backspace</b> key. <b>Note</b> Complex scripts do not behave similar to western scripts when deleting characters, adding characters, or otherwise modifying a string.	उल्लस

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