

Selectively read “Going Beyond the Surface” (Spindler et al., CHI 2012).

Name the major contribution type (according to Wobbrock, 2014) that this paper made and justify your answer.

Complete the following table with the names of

- objectively measured dependent variables and their scales (3 points)
- the scale of each dependent variable
- tasks (1 point)

Then, add a check mark to each cell that the variable applies to the task. Exclude subjective variables, e.g., self-report effectiveness or preferred boundaries. (2 points)

DV	Scale	Task		

From their experiment, Spindler et al., state:

“Findings include rather limited overall interaction height (44 cm), a different minimal layer thickness for vertical and horizontal search tasks (1 cm/4cm)...”

As evidence for your explanation below, give concrete references to specific parts of the paper, e.g., section name, page number, figure or table number.

i. [9 points] Describe three points indicating how the authors established the internal validity of this statement in their experimental design (p. 1280–1282).

ii. [6 points] Describe two points that may threaten the internal validity of this statement.

iii. You want to perform a follow up study to improve the external validity of the finding in this paper. Name one aspect that you want to generalize. Describe why this paper is limited in that aspect. Describe how will your follow up study differ from this paper.

The aspect you want to generalize:

Describe why it is limited in this paper (3 points):

Describe how will your study differ (2 points):