

# Questionnaire for Visually Impaired Learners

## Presentation

Welcome!

Thank you in advance for your participation.

This research aims to identify the perception and the main challenges faced by students with visual impairment in computing courses, as well as the tools/strategies used to overcome them.

Your contribution is very important for a better understanding of the current scenario of inclusion in Brazil.

The average questionnaire response time is 10 minutes and all your answers are anonymous.

## Questions

1. Do you have any degree of visual impairment?
  - a. ☐ Yes, I am totally blind
  - b. ☐ Yes, I have low vision
  - c. ☐ No

If answer is 'c', inform that the survey is for people with visual impairment and finish.

2. How long (in years) have you been a computer user (this includes the time since you started using computers)? Write 0 if you have less than 1 year of experience.
3. How much experience (in years) do you have as a technician in the field of computing (we mean by technician: systems analysts, software developers, support professionals, among other professions in the field)? Write 0 if you have less than 1 year of experience in the field as a technician.
  - a. ☐ I have no experience as a technician
  - b. ☐ I have experience as a technician (in years) of: \_\_\_\_\_
4. Do you currently work in any company in the computing field?
  - a. ☐ Yes
  - b. ☐ No
5. (If answer is 'a') What is your position in the company?
6. What operating systems do you use (select all that apply)?
  - a. ☐ Windows
  - b. ☐ Linux
  - c. ☐ Unix
  - d. ☐ Mac OS
  - e. ☐ Other: \_\_\_\_\_
7. What tools do you use to access information on computers (select all that apply)?
  - a. ☐ Screen amplifiers
  - b. ☐ Screen readers
  - c. ☐ Braille displays
  - d. ☐ Other tactile displays: \_\_\_\_\_
  - e. ☐ Other: \_\_\_\_\_

- f. ☐ I do not know any of these tools
8. (If answer includes 'c') Do you know how to read in Braille?
- a. ☐ Yes, with ease
  - b. ☐ Yes, with difficulty
  - c. ☐ NO
9. (If question 7 answer includes 'b') Which screen readers do you use (select all that apply)?
- a. ☐ Jaws
  - b. ☐ Virtual Vision
  - c. ☐ NVDA
  - d. ☐ VoiceOver
  - e. ☐ SA ou SAToGo
  - f. ☐ Window-Eyes
  - g. ☐ DosVox
  - h. ☐ Other:
10. (If question 7 answer includes 'b') How long (in years) have you been using these screen readers?

#### COURSE SPECIFIC QUESTIONS

11. Are you attending or have you attended any course in the computing field?
- a. ☐ I am attending
  - b. ☐ I have already attended
  - c. ☐ No

If answer is 'c', finish.

12. (If question 11 answer is 'a' or 'b') In which institution?
13. (If question 11 answer is 'b') Have you finished the course?
- a. ☐ Yes
  - b. ☐ No
14. (If question 13 answer is 'b') Did not finish the course because of accessibility problems?
- a. ☐ Yes. Please, explain: \_\_\_\_\_
  - b. ☐ No
15. All books in my course syllabus were accessible
- a. 1 ☐ Strongly Disagree
  - b. 2 ☐ Disagree
  - c. 3 ☐ Neither agree nor disagree
  - d. 4 ☐ Agree
  - e. 5 ☐ Strongly Agree
16. I have had assistant support in all lectures in my course
- a. 1 ☐ Strongly Disagree
  - b. 2 ☐ Disagree
  - c. 3 ☐ Neither agree nor disagree
  - d. 4 ☐ Agree
  - e. 5 ☐ Strongly Agree

17. Have you faced any difficulty due to your impairment?

a. ☐ Yes

b. ☐ No

If answer is 'b', skip questions 18 and 19, and continue from 20 onwards.

18. Which courses were the most problematic and why?

19. Did the educators use any special tools/strategies to overcome the challenges encountered?  
Which? Examples of tools/strategies include Braille printers, pens for raised drawings, among others.

20. How did you deal with courses that involved graphical notations such as flowcharts, entity-relationship diagrams, UML diagrams, among others?

21. Have you been assessed differently in these courses?

a. ☐ Yes. Please, describe how you have been assessed: \_\_\_\_\_

b. ☐ No

22. How did you collaborate with other students and with the educator when it was necessary to use graphical notations?

a. I was not involved in activities that used graphical notations

b. I was involved and used the following tools/strategies: \_\_\_\_\_

Thank you very much for participating!