

Appendix A: Eye Control Questionnaire

11.1 Questionnaire on User Needs

COGAIN (www.cogain.org) is a 5-year European Project that is dedicated to making progress with Eye Control Technology. An essential part of this project is to actively involve people with disabilities and those who support them in order to bring about improvements with this exciting new technology. By responding to this questionnaire, you will be playing a significant part in ensuring that the aims of the project remain closely linked to what people with disabilities actually *need*, rather than what others might *think* they need.

The following questionnaire is divided into separate sections aimed specifically at different groups. Please answer only those questions that relate to you and return as soon as possible.

We would be grateful if you could return this questionnaire either as an email attachment to oosthuizen@ace-centre.org.uk or by post to:

Lisa Oosthuizen
The ACE Centre
92 Windmill Road
Headington
Oxfordshire
OX3 7DR

Any queries can be sent to oosthuizen@ace-centre.org.uk or you can phone Lisa on +44 (0) 1865 759 800

NOTE: THE INFORMATION YOU PROVIDE AND YOUR DETAILS WILL REMAIN ANONYMOUS, AND WILL BE KEPT ON OUR OWN RECORDS ONLY.

Please choose the statement that best describes you:

A: I have a disability and am/ have been a regular user of an eye control system (*or a helper on your behalf*).

B: I have a disability and do not use an eye control system (or have had only a little experience with one) (*or a helper on your behalf*)

C: I am a parent/professional (e.g. teacher, carer, health professional, assistive technology specialist) who supports a person/people who have a disability who I feel might benefit from eye control technology.

If you have chosen A, please turn to Page 3

If you have chosen B, please turn to Page 7

If you have chosen C, please turn to Page 11

Please Note:

We are keen to hear the views of both disabled users and those professionals/carers who support them. For this reason, if you are a professional/carers who supports an individual with a disability, we would welcome a response from both your own perspective (Section C, Page 11) as well as on behalf of the user (Section A, Page 3) if they require your support in doing this.

Section A

I have a disability and am/ have been a regular user of an eye control system

Name:	Email:
Address:	Telephone Number:
Organisation/ Company (if applicable):	

	Question	Please write answer in this column <i>Please note that the size of the boxes will 'stretch' as you add more text, if necessary</i>
A1a	<p>Why do you need (or choose) to use eye control to access the computer?</p> <p>(E.g. due to Motor Neurone Disease, Head Injury, ME, Cerebral Palsy. (If you'd rather not give a name to your disability, please just describe how it affects your ability to control the computer.))</p>	
A1b	<p>What age group do you belong to?</p> <p>(Please choose Under 5 years/5-11 years old/11-18 years/ Over 18/ Way over 18)</p>	
A2a	<p>Does your disability affect your eye movement or head control in any way?</p> <p>If 'Yes', please answer A2b below, if 'No', please go on to A3</p>	
A2b	<p>How are you positioned when you use technology?</p> <p>E.g. Sitting in wheelchair, lying down, side-lying etc.</p>	
A2c	<p>If you answered 'Yes' to A2a...</p> <p>How does this affect your use of the eye control system?</p>	
A3a	<p>Which eye control system do you use?</p> <p>e.g. Quickglance II, Metrovision Visioboard, LC Technologies Eyegaze, etc.</p>	
A3b	<p>How long have you been using eye control?</p> <p>(Years/months)</p>	
A4a	<p>What do you use eye control for?</p> <p>(e.g. Emailing, Internet, Word-processing, Social Communication, Games/Leisure etc.)</p>	

A4b	How often do you use your eye control system (e.g. every day/daily/weekly/a few times a month)	
A4c	How long do you use your eye control system for in one 'session?' (e.g. 2 hours)	
A4d	Where do you use your eye control system? (e.g. at school, work, home, therapy sessions, etc.)	
A5a	Is there any 'special' software that you use with eye control? (Yes/No) If 'Yes', please answer A5b and A5c.	
A5b	If you answered 'Yes' to A5a... Which special software do you use? (e.g. Softype, The Grid, Speaking Dynamically Pro, Gazetalk, etc.)	
A5c	If you answered 'Yes' to A5a... What do you use the special software for? (e.g. 'I use Softype as an on-screen keyboard' or 'I use the Grid for writing, emailing and social communication')	
A6a	Is there anything else that you'd like to do with eye control but can't, at the moment? If 'Yes', please answer A6b, A6c and A6d, below.	
A6b	If you answered 'Yes' to A6a... What sorts of things would you like to do on the computer using eye control that you can't do at the moment? (e.g. Environmental control [i.e. control television, radio, lights, etc.]	
A6c	If you answered 'Yes' to A6a... Why can't you do these things at the moment, using eye control? (e.g. 'I don't have the right software')	
A6d	If you answered 'Yes' to A6a... Why would it be useful to be able to do each of these things?	

A7a	<p>Do you write with your eye control system? (sometimes called 'eye-typing or gaze-typing)?</p> <p><i>If 'Yes', please answer A7b and A7c, below. If 'No', please explain why not.</i></p>	
A7b	<p><i>If you answered 'Yes' to A7a...</i></p> <p>Which software do you use?</p>	
A7c	<p><i>If you answered 'Yes' to A7a...</i></p> <p>About how many words per minute can you type with your 'eye-typing' system?</p>	
A8a	<p>Do you have any other way of controlling the computer that you could (or do) use to <u>write</u> with?</p> <p><i>If 'Yes', please answer A8b and A8c below.</i></p>	
A8b	<p>What other form of computer access do you (or could you) use?</p> <p><i>(e.g. single switch/headmouse, etc.)</i></p>	
A8c	<p>How does your speed with eye control compare with your other forms of writing on the computer?</p> <p><i>(e.g. 'With eye control I can write about ...words per minute. With my switch access, I can write about ...words per minute')</i></p>	
A9	<p>Overall, in comparison with other ways of controlling the computer, what are the main <u>advantages</u> of eye control for you?</p> <p><i>(e.g. Do you find eye control requires less effort to use? Do you find you can use eye control for longer periods?)</i></p>	
A10	<p>Overall, in comparison with other ways of controlling the computer, what are the main <u>disadvantages</u> of eye control for you? <i>(e.g. Do you find eye control requires more effort to use? Do you find you can only use eye control for shorter periods than your other access method (if any)?</i></p>	
A11a	<p>Whether or not you use the computer for eye-typing, how beneficial do you think this is/ would be for you?</p> <p><i>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</i></p>	

A11b	Please give the reason(s) why you think that eye typing is/would be either very beneficial/ quite beneficial/not beneficial.	
A12a	Whether or not you use the computer for <u>emailing</u>, how beneficial do you think this is/would be for you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
A12b	Please give the reason(s) why you think that emailing is/would be either very beneficial/ quite beneficial/not beneficial.	
A13a	Whether or not you use the computer for <u>Internet</u> access, how beneficial do you think this is/would be for you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
A13b	Please give the reason(s) why you think that Internet access is/would be either very beneficial/ quite beneficial/not beneficial.	
A14a	Whether or not you are able to control a <u>wheelchair</u> with eye control, how beneficial do you think this would be to you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
A14b	Please give the reason(s) why you think that wheelchair control would be either very beneficial/ quite beneficial/not beneficial.	
A15a	Whether or not you are able to control your <u>environment</u> (e.g. TV, Radio, Telephone) etc. with eye control, how beneficial do you think this is/ would be to you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
A15b	Please give the reason(s) why you think that environmental control would be either very beneficial/ quite beneficial/not beneficial.	
A16a	Whether or not you are able to <u>communicate</u> socially (e.g. through speech output) with eye control technology, how beneficial do you think this is/would be to you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	

A16b	Please give the reason(s) why you think that social communication is/would be either very beneficial/ quite beneficial/not beneficial.	
A17	Is there anything else that you would like to use eye control for? If so, what and why?	
A18	Is there anything else you'd like to add about eye control technology that hasn't been covered in the questions so far?	

Thank you

Section B**I have a disability and do not use an eye control system (or have had only a little experience with one)**

Name:	Email:
Address:	Telephone Number:
Organisation/ Company (if applicable):	

	Question	Please write answer in this column <i>Please note that the size of the boxes will 'stretch' as you add more text, if necessary</i>
B1a	<p>Why do you (or the person you are writing for) need to use a 'special' way of controlling the computer?</p> <p>e.g. due to Motor Neurone Disease, Head Injury, ME, Cerebral Palsy. (If you'd rather not give a name to your disability, please just describe how it affects your ability to control the computer.)</p>	
B1b	<p>What age group do you belong to?</p> <p>(Please choose Under 5 years/5-11 years old/11-18 years/ Over 18/ Way over 18)</p>	
B2a	<p>Are you able to control 'assistive' technology in any way? (e.g. access the computer, operate a wheelchair, control your environment.)</p> <p>If 'Yes', please answer B3, B4 and B5</p> <p>If 'No', please Go to B6a</p>	
B2b	<p>How are you positioned when you use technology? E.g. Sitting in wheelchair, lying down, side-lying etc.</p>	
B3	<p>If you are able to control assistive technology, which device(s) do you use?</p> <p>(e.g. keyboard and mouse, joystick, headmouse, switch(es), trackerball, keyboard and guard, etc.)</p>	
B4	<p>What do you use your access device(s) for?</p> <p>(i.e. Computer access, Speech output communication aid, Powered wheelchair, Environmental Control, etc.)</p>	

B5a	<p>On the computer, is there any 'special' software that you use? (Yes/No)</p> <p>If 'Yes', please answer B5b and B5c.</p>	
B5b	<p>If you answered 'Yes' to B5a...</p> <p>Which special software do you use?</p> <p>(e.g. Softype, The Grid, Speaking Dynamically Pro, Gazetalk, etc.).</p>	
B5c	<p>If you answered 'Yes' to B5a...</p> <p>What do you use the special software for?</p> <p>(e.g. 'I use Softype as an on-screen keyboard' or 'I use the Grid for writing, emailing and social communication')</p>	
B6a	<p>Is there anything else that you'd like to do using access technology but can't, at the moment?</p> <p>If 'Yes', please answer B6b, B6c and B6d, below.</p>	
B6b	<p>If you answered 'Yes' to B6a...</p> <p>What sorts of things would you like to do on the computer that you can't do at the moment?</p> <p>(e.g. Environmental control [i.e. control television, radio, lights, etc.]</p>	
B6c	<p>If you answered 'Yes' to B6a...</p> <p>Why can't you do these things you'd like to at the moment?</p> <p>(e.g. 'I don't have the right software')</p>	
B6d	<p>If you answered 'Yes' to B6a...</p> <p>Why would it be useful to be able to do each of these things you'd like to?</p>	
B7a	<p>Do you 'write' (word process) with your access method?</p> <p><i>(If 'Yes', please answer B7b and B7c, below. If 'No', please explain why not.</i></p>	
B7b	<p>If you answered 'Yes' to B7a...</p> <p>Which software do you use?</p>	
B7c	<p>If you answered 'Yes' to B7a...</p> <p>About how many words per minute can you type with your access method?</p>	

B8	If you were able to use eye control instead of your current access method, how do you think it would compare? Not as good/ better/ much better.	
B9	If you think it would be better/ much better than your current access method, why do you think this? (i.e. Is it quicker? Less effort? Etc.)	
B10	If you think it <u>would not</u> be as good, why do you think this? (e.g. difficult to use out of doors, etc.)	
B11a	If you were able to use the computer for <u>writing</u> using eye control (sometimes called eye-typing) how beneficial do you think this would be for you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
B11b	Please give the reason(s) why you think that writing with your eyes (sometimes called eye-typing) would be either very beneficial/ quite beneficial/not beneficial.	
B12a	If you were able to use the computer for <u>emailing</u> using eye control, how beneficial do you think this would be for you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
B12b	Please give the reason(s) why you think that emailing using eye control would be either very beneficial/ quite beneficial/not beneficial.	
B13a	If you were able to use the computer for <u>Internet</u> access using eye control, how beneficial do you think this would be for you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	
B13b	Please give the reason(s) why you think that Internet access using eye control would be either very beneficial/ quite beneficial/not beneficial.	
B14a	If you were able to use the computer to control a <u>wheelchair</u> using eye control, how beneficial do you think this would be to you? (i.e. please answer either very beneficial/ quite beneficial/not beneficial?)	

B14b	<p>Please give the reason(s) why you think that wheelchair control using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
B15a	<p>If you were able to use the computer to control your <u>environment</u> (e.g. TV, Radio, Telephone) etc. with eye control, how beneficial do you think this would be to you?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
B15b	<p>Please give the reason(s) why you think that environmental control using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
B16a	<p>If you were able to use the computer to <u>communicate</u> socially (e.g. through speech output) using eye control technology, how beneficial do you think this would be to you?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
B16b	<p>Please give the reason(s) why you think that social communication would be either very beneficial/ quite beneficial/not beneficial.</p>	
B17	<p>Is there anything else that you would like to use eye control for? If so, what and why?</p>	
B18	<p>Is there anything else you'd like to add about eye control technology that hasn't been covered in the questions so far?</p>	

Thank you

Section C

I am a parent/professional (e.g. teacher, carer, health professional, assistive technology specialist) who supports a person/people who have a disability who I feel might benefit from eye control technology

Name:	Email:
Address:	Telephone Number:
Organisation/ Company (if applicable):	

	Question	Please write answer in this column <i>Please note that the size of the boxes will 'stretch' as you add more text, if necessary</i>
C1a	<i>Do you support one person or more than one person?</i>	
C1b	<i>If more than one person, about how many?</i>	
C1c	<i>What is the disability/ range of disabilities of the person/people you work with?</i> (e.g. due to Motor Neurone Disease, Head Injury, ME, Cerebral Palsy)	
C1d	<i>What age group do(es) he/ she/ they belong to?</i> (Please choose - Under 5 years/5-11 years old/11-18 years/ Over 18/ Way over 18)	
C1e	<i>Are you a parent or professional?</i>	
C1f	<i>If 'professional', what profession?</i>	
C2	Is/Are he/she/they able to control 'assistive' technology in any way? (e.g. Access the computer, Operate a wheelchair, Control their environment) (Yes/No) If 'Yes', please answer C3, C4 and C5 If 'No', please Go to C6a	
C3	<i>If he/she/they are able to control assistive technology, which device(s) do(es) he/she/they use?</i> (e.g. Keyboard and mouse, joystick, headmouse, switch(es), trackerball, keyboard and guard, etc.)	
C3a	How is/are he/she/they positioned when he/she/they use technology? E.g. Sitting in wheelchair, lying down, side-lying etc.	

C4	<p>What do(es) he/she/they use his/her/their access device(s) for, if anything?</p> <p>(e.g. Emailing, Internet, Word-processing, Social Communication, etc.)</p>	
C5a	<p>Is there any 'special' software that he/she/they use(s)? (Yes/No)</p> <p>If 'Yes', please answer C5b and C5c.</p>	
C5b	<p>If you answered 'Yes' to A5a...</p> <p>What kinds of special software do(es) he/she/they use?</p> <p>(e.g. Softype, The Grid, Speaking Dynamically Pro, Gazetalk, etc.)</p>	
C5c	<p>If you answered 'Yes' to A5a...</p> <p>What do(es) he/she/they use the special software for?</p> <p>(e.g. 'They use Softype as an on-screen keyboard' or 'I use the Grid for writing, emailing and social communication')</p>	
C6a	<p>Is there anything else that you would like him/her/ them to do using access technology but can't, at the moment?</p> <p>If 'Yes', please answer C6b, C6c and C6d, below.</p>	
C6b	<p>If you answered 'Yes' to A6a...</p> <p>What sorts of things would you like him/her/them to do on the computer that he/she/they can't do at the moment?</p> <p>(e.g. Environmental control [ie. control television, radio, lights, etc.]</p>	
C6c	<p>If you answered 'Yes' to C6a...</p> <p>Why can't he/she/they do these things at the moment?</p> <p>(e.g. 'They don't have the right software')</p>	
C6d	<p>If you answered 'Yes' to C6a...</p> <p>Why would it be useful to be able to do each of the things you'd like them to?</p>	
C7a	<p>Do(es) he/she/they 'write' (word process) with his/her/their access method? (If 'Yes', please answer C7b and C7c, below. If 'No', please explain why not.</p>	

C7b	<p><i>If you answered 'Yes' to C7a...</i></p> <p>Which software do(es) he/she/they use?</p>	
C7c	<p><i>If you answered 'Yes' to A7a...</i></p> <p>About how many words per minute can he/she/they type with his/her/their access method?</p> <p>If more than one person, please give examples.</p>	
C8	<p>If he/she/they were able to use eye control instead of their current access method(s), how do you think it would compare?</p> <p>(Please choose - Not as good/ better/ much better.)</p>	
C9	<p>If you think it would be better/ much better than their current access method, why do you think this?</p> <p>(i.e. Is it quicker? Less effort? Etc.)</p>	
C10	<p>If you think it would be <u>not</u> as good, why do you think this?</p> <p>(e.g. difficult to use out of doors, etc.)</p>	
C11a	<p>If he/she/they were able to use the computer for <u>writing</u> using eye control (sometimes called eye-typing) how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
C11b	<p>Please give the reason(s) why you think that writing using eye control (sometimes called eye-typing) would be either very beneficial/ quite beneficial/not beneficial.</p>	
C12a	<p>If he/she/they were able to use the computer for <u>emailing</u> using eye control, how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
C12b	<p>Please give the reason(s) why you think that emailing using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
C13a	<p>If he/she/they were able to use the computer for <u>Internet</u> access using eye control, how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	

C13b	<p>Please give the reason(s) why you think that Internet access using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
C14a	<p>If one was able to use the computer to control a <u>wheelchair</u> using eye control, how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
C14b	<p>Please give the reason(s) why you think that wheelchair control using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
C15a	<p>If he/she/they were able to use the computer to control his/her/their <u>environment</u> (e.g. TV, Radio, Telephone) etc. with eye control, how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
C15b	<p>Please give the reason(s) why you think that environmental control using eye control would be either very beneficial/ quite beneficial/not beneficial.</p>	
C16a	<p>If he/she/they were able to use the computer to <u>communicate</u> socially (e.g. through speech output) using eye control technology, how beneficial do you think this would be?</p> <p>(i.e. please answer either very beneficial/ quite beneficial/not beneficial?)</p>	
C16b	<p>Please give the reason(s) why you think that social communication would be either very beneficial/ quite beneficial/not beneficial.</p>	
C17	<p>Is there anything else that you would like to use eye control for? If so, what and why?</p>	
C18	<p>Is there anything you'd like to add about eye control technology that hasn't been covered in the questions so far?</p>	

Thank you