

# **User Evaluation Study**

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**AcehCamera**

Participant Number: 1

<b>Key presses</b>	<b>Times cancelled to menu</b>	<b>Conclusion reached</b>
CCRC[D+C]RL	0	Yes
DRR[D+C]RL	0	Yes

Survey

<b>No</b>	<b>Question</b>	<b>Choices (rank 1-4)</b>	<b>Answer</b>
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	2
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	3
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	2
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	2
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	3
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	4
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	3
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	4
11	Would you like to use the application again in the future?	No – Maybe – Yes	3

Participant Number: 2

Key presses	Times cancelled to menu	Conclusion reached
ERCR[D+C]RL	1	Yes
DRLDRLRRLX	2	Phone Camera Error

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	4
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	3
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	2
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	4
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	4
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	3
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

Participant Number: 3

Key presses	Times cancelled to menu	Conclusion reached
ERRR[D+R]RL	1	Yes
RRLRRX	0	Phone network error

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	2
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	2
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	4
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	4
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	2
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	2
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	2
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	2
11	Would you like to use the application again in the future?	No – Maybe – Yes	1

Notes: Needed reminding/prompting about the ability to use the directional pad.

Participant Number: 4

Key presses	Times cancelled to menu	Conclusion reached
RCR[D+R]L	1	Cancelled to menu
DRLDRRR[D+R]E	1	Accidental exit of application

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	4
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	2
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	3
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	4
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	2
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

Notes: Wasn't able to create an image they were happy with but was intrigued. Expressed desire to reveal more of the images in one go.

Participant Number: 5

Key presses	Times cancelled to menu	Conclusion reached
RLDRLDRLLLRLLL	5	Exited application
DRRR[D+R]RL	0	Yes

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	2
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	4
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	3
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	1
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	4
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	1
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

Participant Number: 6

Key presses	Times cancelled to menu	Conclusion reached
RRR[D+R]RL	0	Yes
DRLRR[D+R]RL	0	Yes

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	4
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	4
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	3
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	4
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	3
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	3

Participant Number: 7

Key presses	Times cancelled to menu	Conclusion reached
ECLCRR[D+C]RL	2	Yes
DRLDRLDRRLE	3	No

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	2
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	3
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	2
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	2
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	2
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	2
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	2
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	2
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	2
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

Participant Number: 8

Key presses	Times cancelled to menu	Conclusion reached
RLRCLCR[D+R]RL	1	Yes
DRRR[D+R]RL	0	Yes

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	2
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	2
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	2
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	2
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	2
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

Participant Number: 9

Key presses	Times cancelled to menu	Conclusion reached
DCCC[D+C]RL	0	Yes
CCCX	0	Phone network error
CCLCC[D+C]RL	0	Yes

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	3
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	4
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	4
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	4
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	4
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	4
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	4
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	3
11	Would you like to use the application again in the future?	No – Maybe – Yes	3

Participant Number: 10

Key presses	Times cancelled to menu	Conclusion reached
ERRR[D+R]RL	1	Yes
DRLDRRLRR[D+R]RL	1	Yes

Survey

No	Question	Choices (rank 1-4)	Answer
1	Did you understand what the menu pictures meant before using the program?	Not at all – A little – Reasonably – Very	3
2	After using the program did they make sense?	Not at all – A little – Reasonably – Very	3
3	Did you get bored waiting for the pictures to download to your phone?	Not at all – A little – Reasonably – Very	3
4	Did you feel the data download time was too long?	Not at all – A little – Reasonably – Very	3
5	Were you happy with the level of detail in the photos displayed on the phone?	Not at all – A little – Reasonably – Very	4
6	Were you able to create an image you were happy with?	Not at all – A little – Reasonably – Very	3
7	Did you want to see more of the images you were playing with?	Not at all – A little – Reasonably – Very	3
8	Did you have fun using the application?	Not at all – A little – Reasonably – Very	3
9	Was it easy to learn what the mobile keys controlled?	Not at all – A little – Reasonably – Very	4
10	Did you find the application interesting?	Not at all – A little – Reasonably – Very	4
11	Would you like to use the application again in the future?	No – Maybe – Yes	2

# Summary

## Key press coding scheme

Symbol	Meaning
D	<b>Down</b> – The down button was pressed on the directional pad
U	<b>Up</b> – The up button was pressed on the directional pad
C	<b>Center</b> – The center button was pressed on the directional pad (ie select)
L	<b>Left</b> – The left soft key was pressed
R	<b>Right</b> – The right soft key was pressed
E	<b>Exit</b> – The program was exited, either from the menu or by pressing the hangup/exit phone key. In many cases the application needed to be restarted.
X	<b>Error</b> – The phone encountered an error (either relating to network or camera issues) and the application had to be restarted.
[D+C]	<b>Directional Pad + Center</b> – The directional pad and center button were used repeatedly during the ‘scratch’ mode.
[D+R]	<b>Directional Pad + Right</b> – The directional pad and right soft key were used repeatedly during the scratch mode.

## Conclusions achieved

Conclusion Type	Total	Percentage of all conclusions
Completed	14	67%
Not Completed	4	19%
Phone Error	3	14%

## Users that realised the use of the center button

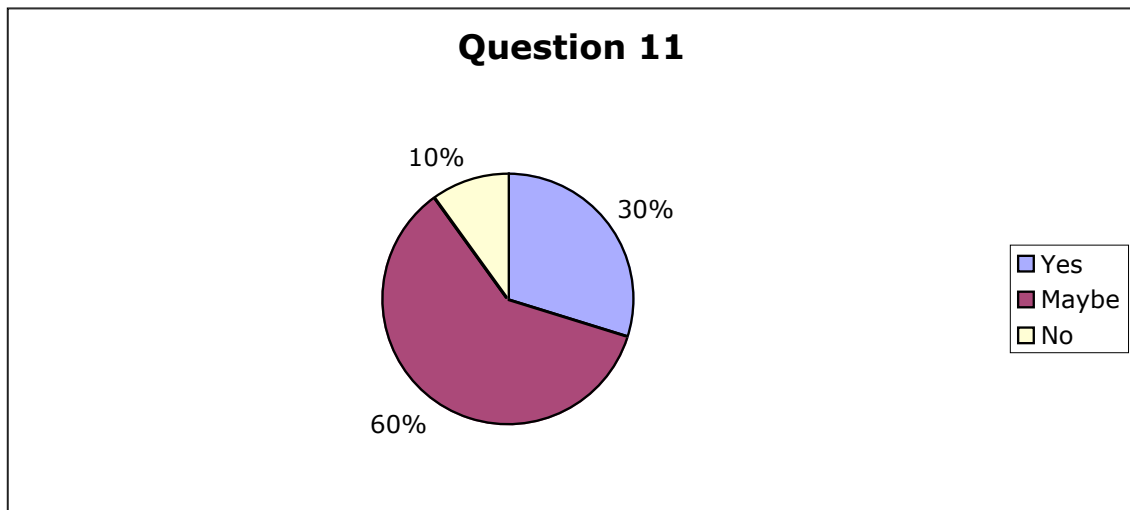
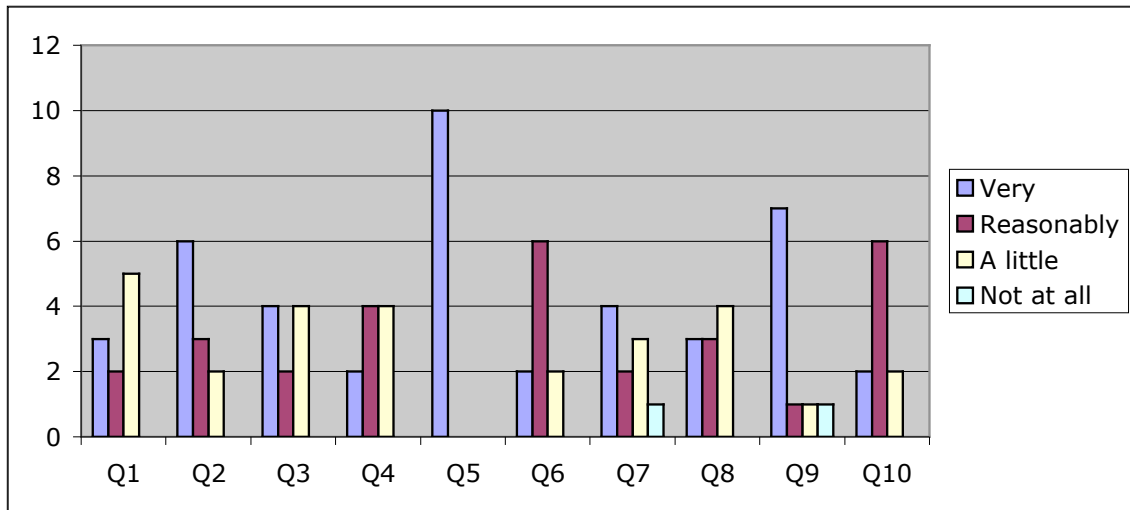
Used Center Button	Total	Percentage of all users
Yes	6	60%
No	4	40%

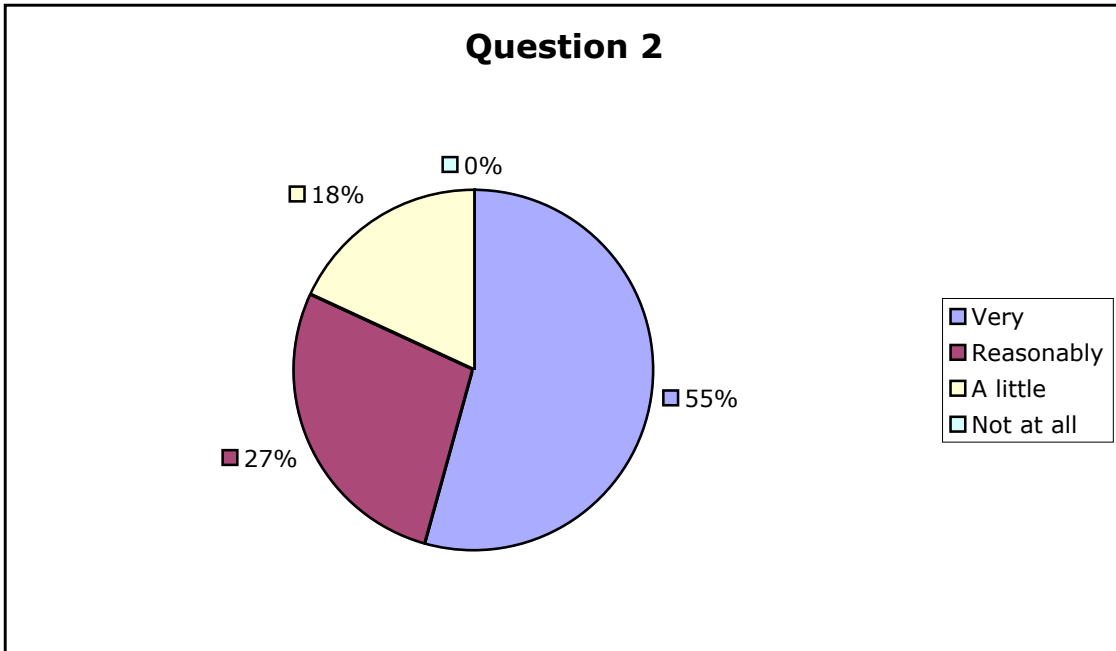
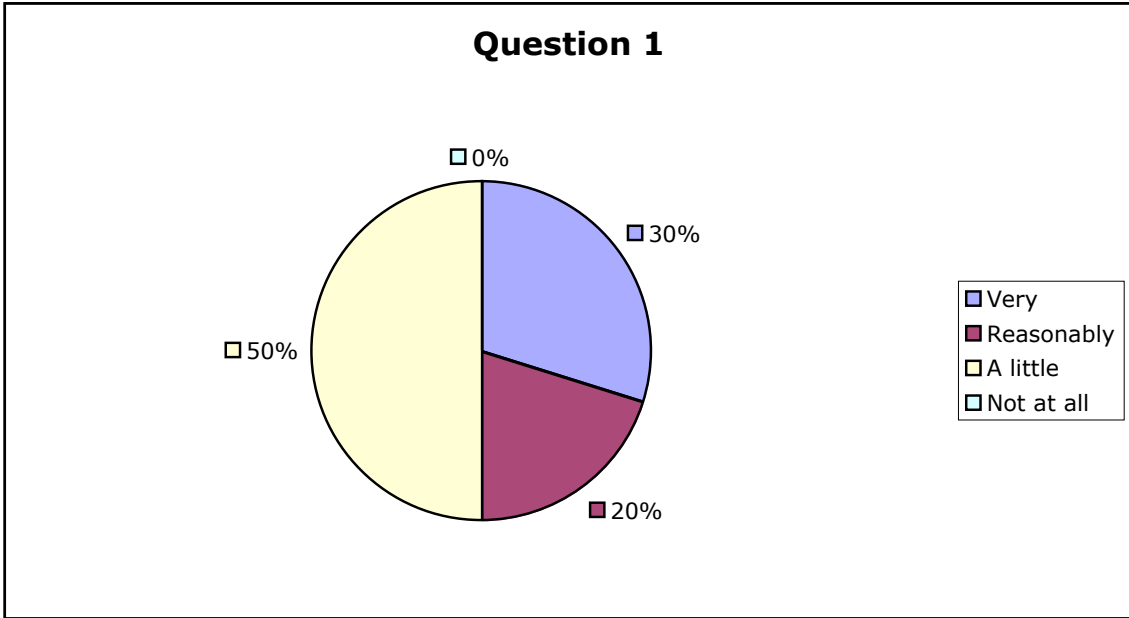
Tabulated Data

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Very	3	6	4	2	10	2	4	3	7	2
Reasonably	2	3	2	4	0	6	2	3	1	6
A little	5	2	4	4	0	2	3	4	1	2
Not at all	0	0	0	0	0	0	1	0	1	0

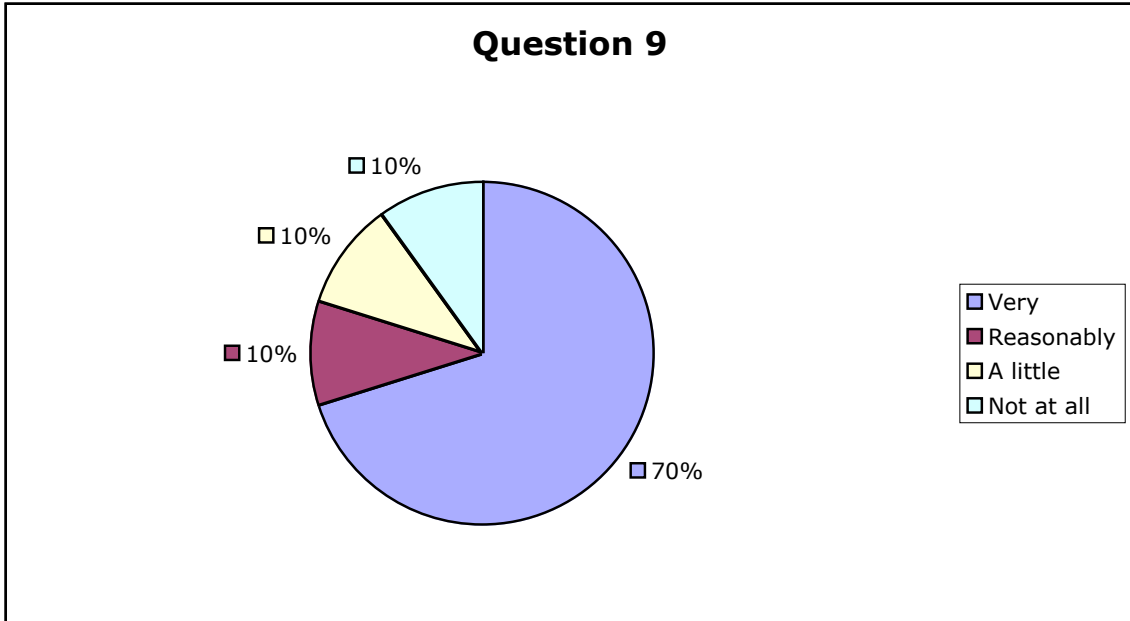
Q11	
Yes	3
Maybe	6
No	1

Charts





The response from question 1 and 2 in addition to key press data shows that most participants learnt very quickly what button was used for “Back” and what button(s) were used for actions, such as taking a photo or removing parts of images.



Most users also found the controls simple and intuitive to learn. The area that caused most problems was the use of the camera as a navigation tool. Many users did not know why they were being presented with the camera interface when they were expecting to see a gallery. With more time to experiment and with the possibility of future implementation to show navigation as originally envisioned I don't foresee this as being a problem.