

Canon T3 Rebel

Usability Test

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CAP 4104

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Abstract

A detailed usability test of the Canon Rebel T3 Digital Single-Len Reflex camera was done using the principles of good design and usability attributes to see if the camera was a well-constructed interface or if it needed improvements. The findings indicated that the Canon Rebel T3 camera received overall positive ratings among the random participants evaluating the interface.



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General Introduction

The Canon T3 Rebel is a Digital Single-Lens Reflex camera. It is fairly cheap and highly desirable, at 12.2-megapixel. "The Canon EOS Rebel T3 is a premium entry level DSLR that captures excellent still images and video..." (Derrick Story, Macworld Magazine). DSLR is "a single lens reflex camera that utilizes mirrors and prisms to reflect a real view of what the photographer is taking a picture of, instead of the usual viewfinder square that could be inaccurate". The camera combines the digital single-lens reflex camera with a digital imaging sensor; this means that the pictures are stored on a memory stick instead of a film. The canon has a dial that lets the user utilize different settings from manual settings for the advanced users to simple point and shoot settings for day or night activities. The Group or Group 6, as we will call ourselves throughout the report, will perform a usability test on the interface of the T3. "Usability is generally regarded as ensuring that interactive products are easy to learn, effective to use, and enjoyable from the user's perspective." (Yvonne, Rogers, Preece).

Organization of the Paper

The report begins with an abstract and a Table of Content that briefly summarizes the entire project. Next, the group developed a General Introduction of the project and the main goal to be achieved. The project continues with the detailed description of the experiment and the steps taken in order to complete the testing. A Population Selection is included explaining the criteria used to select the test participants. The next sections of the report include a description of the Pre-Test, Tasks Instructions and Post-Test. Forms utilized on the test are included on this section. A set of result with charts and tables comes next to present the findings and provide a visual representation of the results. The paper ends with Final Remarks and Conclusion and a references sheet with appendixes.

Section-1: Description of Experiment

Group 6 began the project with the planning stage since an appropriate hardware/software interface had been chosen. The initial phase of the planning stage began with determining what the goal of our project was. The Group decided that the goal of this test was to show that entry-level Digital

Single-Lens Reflex (DSLR) cameras were just as easy to use as standard "point and shoot" cameras for consumers with little to no experience and professionals alike. The benefit of the DSLR is that the user gets professional quality images as well as the ease of use of traditional point and shoot. With the DSLR camera the photographer also has an advantage in speed, adaptability with different lighting, and significant image quality. The Group felt that a usability test of just women would be appropriate so that gender could not be accounted for as a variable. Critics on either side of the aisle could claim that their sex is better with cameras; so that aspect of the experiment was eliminated.

To reach the test goal the Group felt that it is necessary to develop a required set of instructions that each participant would need to follow. A more detailed process of the instructions is detailed below in the [instruction section] as this is a more general overview of the entire experiment. The testing site where the usability test was to be completed was the fourth floor of the UCF library. The group rented a study room on the quiet floor of the library to optimize the participants' focus and keep distractions to bare minimal. The necessary materials needed for the usability test would be laid out on desk with a padded chair for comfort. This would insure a comfortable workstation as it is an air-conditioned environment and all variables such as lighting, heat, noise, and uncomfortable room were eliminated. After the workstation arrangements were made the group then focused on the next step of the evaluation; implementing the experiment and gathering data.

The group then decided that a pre-test would be needed to collect data on the participants. This would allow us to collect data and help us determine whether the interface easily interacts with the user. "You can have a conversation without a social object. You cannot have a social object without a conversation. It is the conversation that makes the object social" (JP Rangaswami). This data included information such as education, age, user experience with cameras and skills. This pre-test was in the form of a questionnaire and implemented such strategies as the likert scale, yes-no questions, and fill in the blanks. The experiment was then conducted with written and verbal instructions being introduced to the participants upon arrival. We observed one participant at a time to keep the other participants from being

able to watch the examination and get an unfair advantage that would mostly skew the data. The participants were informed of the rules and notified that they were not being evaluated in anyway. The participants were instructed to complete the set of tasks in sequential order and announce when each task was completed so that the proctor could mark the time of each completed task. If a task was unable to be completed, the task would be marked as an Incomplete and the proctor would complete that task for the participant. The participants were then instructed to move onto the next task and continue with the experiment. During the experiment no help was given by the proctors, the participants were only informed that they had successful completed the task or had not completed the task. Before the experiment was conducted, the participants were encouraged to think aloud and express their thoughts. This information was recorded and the proctors also recorded their actions such as errors, problems, and common questions.

During the completion of the experiment the participants were then asked to fill out a post-test questionnaire regarding their experience with the DSLR camera and difficulty completing each step. For completing our examination each participant was provided a candy bar and bottled water for their time. From here we able to mine the data and start on the next phase of the usability test; coming to a conclusion with the results.

Section-2: Population-Selection

Group 6 decided that to achieve the best results, a random selection of participants would be beneficial for the usability test. The participants would be students from the main campus of the University of Central Florida. The participant gathering took place on the fourth floor of the library and it was completed in one day. Before the participants began the test they were screened to make sure that they met the basic requirements. The participants were not allowed to be pursuing a Computer Science or Information Technology degree. All eight female participants had to also meet the requirements of being between the ages of eighteen and twenty five years old.

The selection process was done in close proximity to the reserved study room. A group member politely approached participants and asked them to anonymously participate in the test. Once they agreed they were escorted to the reserved study room at the library. In the case where multiple participants were selected together, they were required to wait outside the room to not compromise the usability test. The participants were then instructed on what the usability test was about. They were not offered assistance throughout the completion of the test.

Section-3: Pre-Test

The pre-test was administered before the usability test began. Here is a blank form of the pre-test as it was presented to the participants.

				Participant#	
Usability Pre-Test					
	Ca	anon Rebe	1 T3		
Please fill out the fo	llowing questionna	ire before be	ginning the test		
Age	Major				
Have you ever used a	n Digital Single-Len	s Reflex(DSI	.R) camera? (Circ	le your answer)	
Yes	No				
How familiar are you	ı with Digital Single	e-Lens Reflex	(DSLR) Cameras?	(Circle your answer)	
1	2	3	4	5	
Don't Know	Not at all Familiar	Familiar	Somewhat Familiar	Very Familiar	
How often do you use	e a Digital Single-L	ens Reflex(D	SLR) Camera? (Ci	ircle your answer)	
1	2	3	4	5	
Never	used Once	Frequent	Often	Very Often	
Have you ever used t	he Canon Rebel T3	Digital Singl	e-Lens Reflex(DS)	LR)? (Circle your answer)	
	Ye	es	No		
Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)					
	Ye	es	No		
If yes, what kind of a camera do you currently own?					
Have you ever consid	lered buying a Digi	tal Single-Ler	ns Reflex (DSLR)	camera? (Circle your answer)	
Y	es	Maybe	No		

Section-4: List of Tasks and Instructions

This set of instructions was laid out on the table of the testing center for the participants to view.

The Canon T3 DSLR camera, 8GB Transcend Memory Card, and Canon T3 Lithium Rechargeable
Battery accompanied it. The bold text at the top of the instructions page was the only text visible as a
sheet of paper was used to cover the steps until the participants signaled that they are ready to begin. They
were asked to read the bold print aloud to the proctors to insure that they read them fully. Verbal
instructions were given as well, the proctor made sure that the participants understood that only the
interface was being evaluated. They were also told to "speak aloud" and announce when they had
successfuly completed the task. The last verbal statement was reaffirming that no help could be provided
and asking them to announce when they were ready to begin so that the steps could be revealed.

Instructions

Please follow the instructions below.

You will have 5 minutes to complete the task. If the task is unable to be complete in 5 minutes, the proctors will notify you and the assessment will be stopped immediately.

If a task is unable to be completed, notify the proctors and they will mark that task as incomplete and assist you in moving to the next task. No help will/ca be administered during the duration of the assessment. If at any point you wish to stop the assessment please notify the proctors immediately and it will be stopped. You are not being evaluated; the interface of the camera is being evaluated.

Step 1: Take off the lens cap

Step 2: Insert the battery

Step 3: Insert the SD card

Step 4: Set the lens focus mode to Automatic-Focus(AF)

Step 5: Set the power switch to ON

Step 6:Set the mode dial to Manual Exposure

Step 7:Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.)

Step 8:Take the picture of the water bottle (Press the shutter button completely)

Step 9:View the image

Step 10: Turn the camera off

Thank you for your participation!

Section-5: Post Test

The post-test was administered after the usability test had been completed. Here is a blank form of the post-test as it was presented to the participant upon completing the usability test.

				Participant#_	Page 1
		-			
		Po	ost-Test		
		Cano	on Rebel T3	;	
Please rate the nor difficult, a					asy, 3 for neither easy
Was the camera	easy to use?	(Circle your a	nswer)		
	1	2	3	4	5
Ve	ery Easy	Easy	Average	Difficult	Very Difficult
The required ste	eps were what	I expected. (C	ircle your ans	wer)	
	Yes	No			
The Instructions	s were helpful	l. (Circle your	answer)		
	Yes	No			
I would conside	r buying a Di	gital Single-Le	ns Reflex (DSI	LR) Camera at	fter this demonstration.
(Circle your an	iswer)				
	Yes	No			
The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)					
	Yes	No			

			Parti	cipant#	Page 2
I would consider red	commending the	camera to a fri	end (Circle v	our answer)	
i would consider ice	commending the	camera to a mix	ind. (Chicle y	our answer)	
1	2	3	4	5	
1	2		4		
Strongly Agree	e Agree	Neither	Disagree	Strongly Disagree	
			being very ea	sy, 3 being neither o	easy nor
difficult, and 5 being	ng very difficult.	•			
C: 4 T W:	(Cinal)				
Step 1: Take off the le			4	5	
1 Vany Fasy	2 Easy	3 Average	4 Difficult	5 Very Difficult	
Very Easy	•	_	Difficult	very Difficult	
Step 2: Insert the bat			4	г	
1 Very Easy	2 Easy	3 Average	4 Difficult	5 Very Difficult	
Step 3: Insert the SD	_	_	Difficult	very Difficult	
1	2	3	4	5	
Very Easy	-	_	Difficult	Very Difficult	
Step 4: Set the lens for				_	
1	2	3	4	5	
Very Easy	_	Average	•	Very Difficult	
Step 5: Set the power	_			very Difficult	
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 6: Set the mode				,	
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
				e subject and press the	shutter
button halfway.) (Ci					
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 8: Take the pict	ture of the water l	bottle (Press the	shutter butto	n completely) (Circle y	our answer)
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 9: View the pictu	ıre just taken (Cir e	cle your answe	er)		
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 10: Turn the DSL	.R camera off (Cir o	cle your answe	er)		
1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	

Section-6: Present Results

Tables

Tasks time table:

Tasks	Participant 1	Participant 2	Participant 3	Participant 4	Participant 5	Participant 6	Participant 7	Participant 8
Step 1- Take off cap	5.5	1.32	1.2	1.3	5.5	4.3	7	6
Step 2-Insert Battery	16.1	11.81	13.25	14.93	13.7	11.4	22.7	18.6
Step 3-Insert SD card	11	8.43	12.15	6.43	18.5	12.9	18.2	29.1
Step 4-Set the lens focus	33.8-	F 15.53	1.06-	F 16.93	28.3	11.1	29.4	7.5
Step 5-Turn the Camera On	5.6	5.96	10.08	4.1	2.3	4.6	3.6	9
Step 6-Set manual exposure	28.5	4.94	35.55	48.56	17.4	51.7	11.4	1.24-F
Step 7-Focus on water bottle	25.3	16.45	19.1	54.86	7.7	12.1	14.7	33.8
Step 8-Take a picture	23.8	6.2	9.6	5.06	11.2	1.1	8.6	1.2
Step 9-View the image	58-	F 22	10.6	4.7	7.4	5	4.6	24.9
Step 10-Turn the Camera off	4.3	1.12	3.7	3.21	2.7	3.2	1.9	3.3
Time/Seconds	211.9	93.76	116.29	160.08	114.7	117.4	122.1	134.64
Time/Minutes	3.53	1.56	1.94	2.67	1.91	1.96	2.04	2.24

NOTE: "F" STANDS FOR FAILED TO PERFORM THE TASK.

Average time per step:

Step	Average time
Take off cap	4.02
Insert Battery	15.31
Insert SD card	14.59
Set the lens focus	17.95
Turn the Camera On	5.66
Set manual exposure	24.91
Focus on water bottle	23.00
Take a picture	8.35
View the image	17.15
Turn the Camera off	2.93

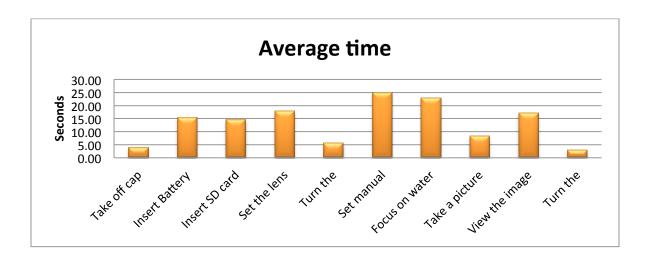
Difficulty of Tasks (Percentage)

Step	Difficulty (Percentage)
Take off cap	3%
Insert Battery	11%
Insert SD card	11%
Set the lens focus	13%
Turn the Camera On	4%
Set manual exposure	19%
Focus on water bottle	17%
Take a picture	6%
View the image	13%
Turn the Camera off	2%

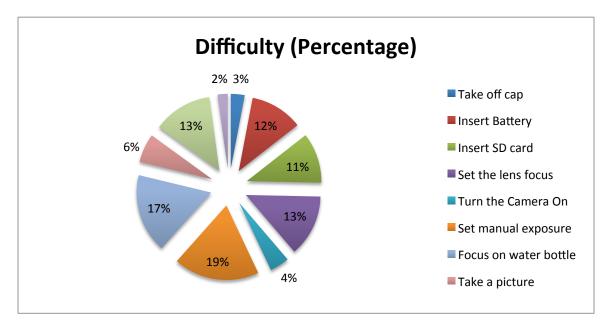
NOTE: Percentage was found by dividing average time for step over "total average time"

Section-7: Results

Upon Completion of the test, the group found out that setting the manual exposure mode was the most difficult part in the experiment, only one person failed to set the manual exposure which means that the whole group of participants figured it out eventually. "Users should not have to wonder whether different words, situations, or actions mean the same thing" (Nielson)". All the participants completed the whole list of tasks in half the time anticipated "the participants were given five minutes to complete the tasks".



Furthermore four of the participants were familiar with DSLR cameras versus four that weren't. Six of the participants said that the camera was easy to use on the survey while the other two said that it was average. There wasn't any difficulty in any of the steps, participant one failed two steps and participant three and eight failed one step each. "User research helps us to understand how other people live their lives, so that we can respond more effectively to their needs with informed and inspired design solutions" (Sherwin).



These results led to the conclusion that DSLR cameras are just as easy to use as regular cameras. None of the participants had any serious problems performing the tasks; they all thought that the DSLR camera was fairly easy to use.

Conclusion

The objective of this usability test was to show that entry-level Digital Single-Lens Reflex (DSLR) cameras could be just as easy to use as standard "point and shoot" cameras. With the DSLR, the consumer is able to obtain professional quality images with the ease of use of traditional point and shoot cameras. In addition, the photographer gets other advantages over a "point and shoot" camera such as speed, lighting, and image quality.

Upon completion of the testing, the group gathered the data and interpreted the findings. Based on the results provided above, the group concluded that the entry-level Digital Single-Lens Reflex (DSLR) camera interface could be just as easy to use as "point and shoot" camera. The basic tasks required for this test had an appropriate level of difficulty and were comparable to tasks that users might perform on "point and shoot" cameras. Only a few of the participants failed to complete some minor tasks, while the majority of them were able to follow and complete the instructions successfully. All the participants concurred that the DSLR camera was easy to use and the interface was intuitive and user-friendly. Some participants had few recommendations for the interface tested; a common one was the addition of a touch screen. This is a feature on the upgraded version of the T3, the T3i, and consequently is an increase of several hundred dollars. Another recommendation was an improved turn dial; this seemed to cause the participants the most confusion and probably the biggest challenge to overcome. Otherwise they seem very satisfied with the overall design and features of the camera. All in all Group 6 came to the conclusion that the Canon T3 DSLR camera has a good interface with minimal flaws. (Wolf)

References

http://www.macworld.com/article/1159527/review_canon_t3i.html, Derrick Story, MacworldMagazine, April 29, 2011.

http://uxdesign.smashingmagazine.com/2013/09/23/5-step-process-conducting-user-research, David Sherwin, Smashing Magazine, September 23, 2013.

Christine Crumlish, Erin Malone, Copyright 2009, *DESIGNING SOCIAL INTERFACES: Principles, Patterns, and Practices for Improving the User Experience*, O'riley Publishing.

http://www.nngroup.com/articles/ten-usability-heuristics/, Jakob Nielson, Nielson Norman Group, January 1, 1995.

SPOOL, J. M. (2009, 05 2009). *Great Designs Should Be Experienced and Not Seen*. Retrieved from User Interface Engineering: http://www.uie.com/articles/experiencedesign/

Wolf, L. (2012, 5 23). 6 Tips for Designing an Optimal User Interface for Your Digital Event. Retrieved from INXPO: http://web.inxpo.com/casting-calls/bid/105506/6-Tips-for-Designing-an-Optimal-User-Interface-for-Your-Digital-Event

Yvonne Rogers, Helen Sharp, Jennifer Preece, Copyright 2011. *HUMAN INTERACTION: Beyond Human-Computer Interaction*, John Wiley & Son, Ltd, Publication.

Appendix A - Pre-Test

		Usabil	ity Pre-	Γest	
			on Rebel T		
Please fill out	the following				
Age 18	no a mi very	Health	CESTON DE LA TRANS	1 - 1 -	
		Circle your at			
Have you ever	used a Digital	Single-Lens R	eflex(DSLR)	camera? (Circ	le your answer)
	Yes	No			
How familiar a	re you with Di	gital Single-Le	ens Reflex(DS	SLR) Cameras	(Circle your answer)
(1	2	3	4	5
Don't I	Know Not at	all Familiar	Familiar Sc	mewhat Familiar	Very Familiar
How often do y	ou use a Digit	al Single-Lens	Reflex(DSLI	R) Camera? (C	ircle your answer)
	1	2	3	4	5
	Never U	Jsed Once	Frequent	Often	Very Often
		n Rebel T3 Dig	gital Single-L	ens Reflex(DS	LR)? (Circle your answer)
		Yes	(1	40)	
Have you ever	used another t	pe of Digital S	Single-Lens F	Reflex(DSLR)	camera? (Circle your answei
		Yes		No	
If yes , what kin	d of a camera	do vou current	ly own?	a manual for	
,		•			
Have you ever	considered buy	zing a Digital S	Single-Lens R	efley (DSI R)	camera? (Circle your answer)
riave jou ever	Yes	VI S	ybe		\

						Participant#
		Usab	ility Pr	e-Tes	t	
		Car	on Rebe	el T3		
Please fill ou	ut the followin	ng questionnair	e before be	eginning	the test	
Age 19	Maj	or COMMUN	ii catio	N		
Have you eve	er used a Digi	tal Single-Lens	Reflex(DSI	LR) came	era? (Circ	le your answer)
	Yes	No				
How familia	r are you with	Digital Single-I	ens Reflex	(DSLR)	Cameras?	(Circle your answer)
	1	2	3	4	1	5
Don	't Know No	t at all Familiar	Familiar	Somewh	at Familiar	Very Familiar
How often do	you use a Di	gital Single-Len	s Reflex(D	SLR) Ca	mera? (C	ircle your answer)
	1	2	3		4	5
	Never	Used Once	Frequent		Often	Very Often
Have you eve	er used the Ca	non Rebel T3 D	igital Singl	e-Lens F	Reflex(DS)	LR)? (Circle your answer)
		Yes		No		
Have you eve	er used anothe	r type of Digital	Single-Le	ns Reflex	(DSLR)	camera? (Circle your answe
		Yes		No		
If yes , what l	cind of a came	ra do you currer	ntly own?		Minual IO	the camera. (Circle
Have you eve	er considered	buying a Digital	Single-Ler	ıs Refley	(DSLR)	camera? (Circle your answer)
)	2.1.6.1		(2221)	carretar (entire your answer)
	(Yes)	3.6	aybe		No	

		Usabi	lity Pre-	Test	
		Can	on Rebel T	Г3	
Please fill out	the followin	ng questionnair	e before begi	nning the test	
Age 21_	Maj	or May	ceting		
			J		
Have you ever	used a Digi	tal Single-Lens F	Reflex(DSLR)	camera? (Cir	cle your answer)
	Yes	No			
How familiar a	re vou with	Digital Single I	ans Daflay(D)	SI D) Camarag	? (Circle your answer)
riow familiar a	co you with				
		2	3	4	5
Don't I	Know Not	t at all Familiar	Familiar Se	omewhat Familia	r Very Familiar
How often do y	ou use a Di	gital Single-Len	s Reflex(DSL)	R) Camera? (C	Circle your answer)
	(1)	2	3	4	5
	Never	Used Once	Frequent	Often	Very Often
Have you ever	used the Ca	non Rebel T3 Di	igital Single-L	ens Reflex(DS	SLR)? (Circle your answer)
		Yes	(-	No	
TT	1 .1		G. 1 T	o a (Dain)	
Have you ever	used anothe	r type of Digital	Single-Lens I	Reflex(DSLR)	camera? (Circle your answe
		Yes		No)	
If yes , what kin	d of a came	ra do you curren	tly own?	and the same of the	and control of the control
Have you ever	considered l	ouving a Digital	Single-Lens R	Reflex (DSLR)	camera? (Circle your answer)
				COLOR (DELIK)	camera: (circle your answer)
	Yes	Ma	aybe	No/	

					Participant#
		Usabi	lity Pro	e-Test	
		Can	on Rebe	l T3	
Please f	ill out the followin	g questionnaire	before be	ginning the test	
Age <u>2</u>				es-pre cl	inical
Have yo	u ever used a Digit	al Single-Lens R	eflex(DSL	R) camera? (Cir	cle your answer)
	Yes	No			
How fan	niliar are you with	Digital Single-L	ens Reflex	(DSLR) Cameras	? (Circle your answer)
	1	2	3	4	5
	Don't Know Not	at all Familiar	Familiar	Somewhat Familia	r Very Familiar
How oft	en do you use a Di	gital Single-Lens	Reflex(D	SLR) Camera? (C	Circle your answer)
	1	2	3) 4	5
	Never	Used Once	Frequent	Often	Very Often
Have yo	u ever used the Car	non Rebel T3 Di	gital Singl	e-Lens Reflex(DS	SLR)? (Circle your answer)
		Yes		No	
Have yo	u ever used anothe	r type of Digital	Single-Lei	ns Reflex(DSLR)	camera? (Circle your answer)
		Yes		No	
If yes, w	hat kind of a came	ra do you curren	tly own? _	need it distings for	the capter of the tree
Have vo	ou ever considered l	ouving a Digital	Single-Ler	ns Reflex (DSLR)	camera? (Circle your answer)
	Yes		vbe	No	

	_
D	MD 5
Participant#	

	Canon Dobal T2
	Canon Rebel T3
ALTO DESIGNATION OF	out the following questionnaire before beginning the test
Age 19	Major Marketing
Have you e	ver used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)
	Yes No Accessed Difficult Very Difficult
How famili	ar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)
	1 2 3 4 5
Do	on't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar
How often	do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)
	1 2 3 4 5
	Never Used Once Frequent Often Very Often
Have you e	ver used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)
	Yes
Have you e	ver used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer
	Yes No
f yes, what	kind of a camera do you currently own?
Have you e	ver considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)
	Yes Maybe No

		Us	ability 1	Pre-Tes	t		
			Canon R	ebel T3			
Please fill o	ut the follow	wing question	naire befor	e beginning	g the test		
Age 19	M	lajor <u>Pre-1</u>	Jursing				
			our answer				
Have you ev	er used a Di	igital Single-L	ens Reflex(DSLR) cam	era? (Circ	le your answer	•)
	Yes	1	No				
How familia	r are you wi	ith Digital Sin	gle-Lens Re	flex(DSLR)	Cameras'	(Circle your a	inswer)
	1	2	3		4	5	
Don	't Know	Not at all Familia	ır Famili	ar Somew	hat Familiar	Very Familiar	
How often de	o you use a	Digital Single	-Lens Refle	x(DSLR) C	amera? (C	ircle your ansv	ver)
How often de	o you use a	Digital Single	-Lens Refle	x(DSLR) C	amera? (C	ircle your ansv	ver)
How often d				3	amera? (C		ver)
	1 Never	2 Used Once	No Frequ	3 uent	4 Often	5	steation
	1 Never	2 Used Once	No Frequ	3 uent	4 Often	5 Very Often	steation
Have you ev	Never er used the	Used Once Canon Rebel	Frequ Γ3 Digital S Ýes	3 ingle-Lens l No	Often Reflex(DS	5 Very Often	r answer)
Have you ev	Never er used the	Used Once Canon Rebel	Frequ Γ3 Digital S Ýes	3 ingle-Lens l No	Often Reflex(DS	5 Very Often LR)? (Circle you	r answer)
Have you ev Have you ev	Never er used the er used another	Used Once Canon Rebel 7	Frequence of Frequency Fre	3 nent ingle-Lens l No -Lens Refle No	Often Reflex(DS	5 Very Often LR)? (Circle you camera? (Circle y	r answer)
Have you ev Have you ev	Never er used the er used another	Used Once Canon Rebel	Frequence of Frequency Fre	3 nent ingle-Lens l No -Lens Refle No	Often Reflex(DS	5 Very Often LR)? (Circle you camera? (Circle y	r answer)
Have you ev Have you ev	Never er used the er used another	Used Once Canon Rebel 7	Frequence of Frequency Fre	3 nent ingle-Lens l No -Lens Refle No	Often Reflex(DS	5 Very Often LR)? (Circle you camera? (Circle y	r answer)
Have you ev	Never er used the er used another kind of a car	Used Once Canon Rebel 7	Frequently own	3 ingle-Lens l No -Lens Refle No n?	Often Reflex(DS x(DSLR)	5 Very Often LR)? (Circle you camera? (Circle y	r answer) our answer)

	Usability Pre-Tes	t	
	Canon Rebel T3		
Please fill out the follow	ng questionnaire before beginning	g the test	
Age <u>18</u> Ma	jor Blomedical	<u></u>	
Have you ever used a Dig	ital Single-Lens Reflex(DSLR) cam	era? (Circle your answer)	
Yes	No		
How familian and you wit	n Digital Single-Lens Reflex(DSLR)	Company (Cirola your open	
How familiar are you wit	i Digital Single-Lens Reliex(DSLR)	Cameras? (Circle your answ	wer)
1	2 3	4 5	
Don't Know N	ot at all Familiar Familiar Somew	hat Familiar Very Familiar	
How often do you use a I	rigital Single-Lens Reflex(DSLR) C	amera? (Circle your answer))
1	2) 3	4 5	
•		,	
Yes	H 10 MO F	00 11 00	
Never	Used Once Frequent	Often Very Often	
	Used Once Frequent anon Rebel T3 Digital Single-Lens		iswer)
	•		iswer)
Have you ever used the C	anon Rebel T3 Digital Single-Lens	Reflex(DSLR)? (Circle your an	
Have you ever used the C	anon Rebel T3 Digital Single-Lens No Yes No er type of Digital Single-Lens Refle	Reflex(DSLR)? (Circle your an	
Have you ever used the C	anon Rebel T3 Digital Single-Lens No Yes No er type of Digital Single-Lens Refle Yes No	Reflex(DSLR)? (Circle your an	answer)
Have you ever used the C	anon Rebel T3 Digital Single-Lens No Yes No er type of Digital Single-Lens Refle Yes No	Reflex(DSLR)? (Circle your an	answer)
Have you ever used the C	anon Rebel T3 Digital Single-Lens No Yes No er type of Digital Single-Lens Refle Yes No	Reflex(DSLR)? (Circle your an	answer)
Have you ever used the C Have you ever used anoth If yes, what kind of a can	anon Rebel T3 Digital Single-Lens No Yes No er type of Digital Single-Lens Refle Yes No	Reflex(DSLR)? (Circle your and x(DSLR) camera? (Circle your and x(DSLR) camera? (Circle your and x(DSLR))	answer)
Have you ever used the C Have you ever used anoth If yes, what kind of a can	Yes No er type of Digital Single-Lens Refle Yes No era do you currently own?	Reflex(DSLR)? (Circle your and x(DSLR) camera? (Circle your and x(DSLR) camera? (Circle your and x(DSLR))	answer)

			\mathbf{U}	sabil	lity Pr	e-Tes	t			
				Can	on Rebe	el T3				
Please fill o	ut the fo	llowing	questio	nnaire	before b	eginning	g the test			
Age 24		Major		Cho	raeter	Anima	MON			
Have you ev	er used a	Digita	Single-	Lens R	eflex(DSI	LR) cam	era? (Cir	cle you	answer)	
	Yes			No						
How familia	ır are you	with D	igital Sin	ngle-Le	ens Reflex	(DSLR)	Cameras	? (Circl	e your an	swer)
	1		2 ·		3		4	5		
Do	n't Know	Not a	t all Famil	iar	Familiar	Somew	hat Familia	r Very	Familiar	
How often o		e a Digi	tal Singl	e-Lens	Reflex(D					er)
	1	- 0	2		(3)	`	4	J	5	
	Never	3)	Used Onc	No	Frequent	,	Often	Vom		
Have you ev					on Darley	ADSLE			Often	milion.
nave you ev	er used ti	ne Can	on Rebei		gitai Singi	e-Lens i	(Di	SLR)? (C	ircie your	answer)
				Yes		(No)				
Have you ev	er used a	nother	type of I)igital S	Single-Le	ns Refle	x(DSLR)	camera	? (Circle you	r answer)
			(Yes		No				
f yes, what	kind of a	camera	do you	current	ly own? _	Ca	unon 6	on -	_	
Have you ev	er consid	ered by	ıving a D)igital (Single-I e	ns Reflex	(DSI P)	camero	? (Circle	r onervan'
riave you ev	Ci collisio		, mg a D			is iterie		camera	. (Circle you	answer)
	Y	es '		Ma	ybe		No			

Appendix B - Task List

Instructions

Please follow the instructions below.

You will have 5 minutes to complete the task. If the task is unable to be complete in 5 minutes, the proctors will notify you and the assessment will be stopped immediately.

If a task is unable to be completed, notify the proctors and they will mark that task as incomplete and assist you in moving to the next task. No help will/ca be administered during the duration of the assessment. If at any point you wish to stop the assessment please notify the proctors immediately and it will be stopped. You are not being evaluated; the interface of the camera is being evaluated.

Step 1: Take off the lens cap

Step 2: Insert the battery

Step 3: Insert the SD card

Step 4: Set the lens focus mode to Automatic-Focus(AF)

Step 5: Set the power switch to ON

Step 6:Set the mode dial to Manual Exposure

Step 7:Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.)

Step 8: Take the picture of the water bottle (Press the shutter button completely)

Step 9:View the image

Step 10: Turn the camera off

Thank you for your participation!

Appendix C - Post-Test

•) / T			
I	Post-Test			
Car	non Rebel T3			
Please rate the following tasks using the nor difficult, and 5 for very difficult. (Ci	following scale. ircle your answer	1 for very eas	y, 3 for nei	ither easy
Was the camera easy to use? (Circle your	answer)			
1	3	4	5	
Very Easy Easy	Average	Difficult	Very Diffici	ult
The required steps were what I expected. (Circle your answ	er)		
ten 3: Insert tr = 50 cord(Chrole your massw				
Yes				
The Instructions were helpful. (Circle you	r answer)			
cap 5: Set the power switch to ON(Circle yo	Manga Dunteu My Cheswer)			
Yes				
would consider buying a Digital Single-L	ens Reflex (DSLF	R) Camera afte	r this demo	nstration.
Circle your answer)				
Yes (No				
Very Pricy Cary Av				
'he instructions were not enough and I wil our answer)	l probably need a			Circle
Verked tiny An				
(Yes) No				

Participant#_

I would consider reco	mmending th	e camera to a fr	iend. (Circle	your answer)
1	(2)	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree
Please rate each step difficult, and 5 being	on a scale of very difficul	f 1 to 5. With 1 lt.	being very ea	asy, 3 being neither easy nor
Step 1: Take off the lens	cap(Circle y	our answer)		
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 2: Insert the batter	y(Circle your	r answer)		very bimedit
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 3: Insert the SD car	d(Circle your	r answer)		very Difficult
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	V D'CC 1
Step 4: Set the lens focus	s mode to Auto	omatic-Focus(AF)	(Circle your	very Difficult
1	SIST M	(3)	4	
Very Easy	Easy	Average	Difficult	5
Step 5: Set the power sw		rele vour anew	Difficult	Very Difficult
(1)	2	3		
Very Easy	Easy	Average	4 Difficult	5
Step 6: Set the mode dia	to Manual Ev	nocuro(Cinale	Difficult	Very Difficult
1	(2)	posure(Circle y		
Very Easy	Easy	3	4	5
Sten 7: Focus on the wa	ter bettle (A:-	Average	Difficult	Very Difficult
hutton halfway \ (Circle	ter bottle (Ain	1 the viewfinder	center over the	e subject and press the shutter
button halfway.) (Circle	your answer	r)		
VE	2	3	(4)	5
Very Easy	Easy	Average	Difficult	Very Difficult
step 8: Take the picture	of the water l	bottle (Press the	shutter button	completely) (Circle your answer)
(-)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 9: View the picture j	ust taken(Cire	cle your answe	r)	,
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 10: Turn the DSLR ca	mera off(Circ	ele your answer	•)	J Milean
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
				J Difficult

	Post-	Test		
	Canon R	ebel T3		
Please rate the following ta nor difficult, and 5 for very			or very ea	asy, 3 for neither
Was the camera easy to use?	(Circle your answe	r)		
Step 1: Take of letter alos crost C	(2)	3	4	5
Very Easy	Easy A	verage I	Difficult	Very Difficult
The required steps were wha	at I expected. (Circle	your answer)		
(Yes)	No			
The Instructions were helpfu	al. (Circle your answ	er)		
Yes	No			
I would consider buying a D	rigital Single-Lens Re	flex (DSLR)	Camera af	ter this demonstra
(Circle your answer)				
Yes	No			
The instructions were not en	ough and I will proba	bly need a ma		
your answer)				
Very Law	Z 3 Saly Average			
Yes	(A)			

Participant#_

I would consider recon	nmending the	camera to a fri	end. (Circle y	our answer)
1	(2)	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree
Please rate each step difficult, and 5 being			being very ea	sy, 3 being neither easy nor
Step 1: Take off the lens	cap(Circle yo	ur answer)		
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 2: Insert the battery	(Circle your	answer)		
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 3: Insert the SD card	(Circle your	answer)		
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 4: Set the lens focus	mode to Auto	matic-Focus(AF)	(Circle your	answer)
1	2	(3)	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 5: Set the power sw	itch to ON(Cir	cle your answ	er)	
· (i)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 6: Set the mode dial	to Manual Exp	osure(Circle y	our answer)	
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 7: Focus on the wa	ter bottle (Aim	the viewfinder	center over the	e subject and press the shutter
button halfway.) (Circle				
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 8: Take the picture	of the water l	oottle (Press the	shutter buttor	n completely) (Circle your answer)
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 9: View the picture j	just taken(Circ	cle your answe	er)	
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 10: Turn the DSLR ca	amera off(Circ	ele your answe	er)	
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
				7

		Participant#	Page
	Post-	Test	
	Canon R	ebel T3	
Please rate the follow nor difficult, and 5 fo	ring tasks using the following very difficult. (Circle yo	ing scale. 1 for very easy, 3 for nur answers)	either easy
Was the camera easy to	o use? (Circle your answer	being very easy, 3 being actibe	
Step 1. Take off spe 10s		3 4 5	
Very Easy	Easy Av	verage Difficult Very Diff	icult
The required steps wer	re what I expected. (Circle y	your answer)	
		Difficult Very Difficult	
Yes	s (No)		
The Instructions were l	helpful. (Circle your answe		
	Easy Average witch to DN(Circle your ana-	Official Very Difficult	
Yes	s) No		
	/ 1		
	ng a Digital Single-Lens Ref	flex (DSLR) Camera after this den	nonstration.
(Circle your answer)			
	hasy Average		
Yes			
The instructions were r	not enough and I will probal	bly need a manual for the camera.	(Circle
your answer)			
Yes	No		
168	(140		

7			Part	icipant#3Page	2
I would consider reco	mmending the	camera to a frie	end. (Circle v	our answer)	
		\sim		,	
1	2	(3)	4	5	
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree	
Please rate each step	on a scale of	1 to 5. With 1 h	being very ea	asy, 3 being neither easy nor	
difficult, and 5 being	g very difficult	•			
C. 4 T. 1 (C.) 1	(6)				
Step 1: Take off the len	7.				
V (1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 2: Insert the batte				_	
Very Easy	2	3	4	5	
	Easy	Average	Difficult	Very Difficult	
Step 3: Insert the SD ca		and the second second			
VeryEasy	2 Easy	3	4 D:cc:	5	
Step 4: Set the lens foci		Average	Difficult	Very Difficult	
1	2	3			
Very Easy	-	-	(4) Difficult	5 V D:00 k	
Step 5: Set the power s	Easy	Average		Very Difficult	
step 5. Set the power s				_	
Very Easy	2 Easy	3	4 Difficult	5 V D'C k	
	•	Average		Very Difficult	
Step 6: Set the mode di		// \			
1 Very Easy	2	(3)	4	5	
	Easy	Average	Difficult	Very Difficult	
but a ball and (Cina)	ater bottle (Aim	the viewiinder	center over th	e subject and press the shutter	
button halfway.) (Circ	-	•			
1	(2)	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
step 8. Take the pictur				n completely) (Circle your answer)
Van 1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 9: View the picture	7577		- ·		
V = 1	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 10: Turn the DSLR			000	2:	
/ 1 \	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	

		Po	st-Test			
		Canoi	Rebel T3			
Please rate nor difficul	the following ta t, and 5 for very	isks using the fol y difficult. (Circl	lowing scale. e your answe	1 for very easy rs)	y, 3 for neit	her easy
Was the cam	nera easy to use?	(Circle your an	swer)			
	of the Inserp(C	2	3	4	5	
	Very Easy	Easy	Average	Difficult	Very Difficult	t
The required	l steps were wha	t I expected. (Cir	cle your ansv	ver)		
	the 50 cm (City					
	Yes	No				
The Instructi	ions were helpfu	d. (Circle your a	nswer)			
	e payer switch is	Conf Circle your	pe - Diffic Difficulty (12)			
	Yes	No				
I would cons	sider buying a D	igital Single-Lens	Reflex (DSL	R) Camera after	this demon	stration.
(Circle your	answer)					
	(Vas)	No 3				
	Yes	NO Average				
		ough and I will pr	obably need a	manual for the	camera. (Ci	rcle
your answei	r) By Mark DSLR camera					
		2 3 Vertex				
	Yes	No				
	103	110				

I would consider recommending the camera to a friend. (Circle your answer) 3 Disagree Strongly Disagree Strongly Agree Agree Neither Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult. Step 1: Take off the lens cap(Circle your answer) 4 Average Difficult Very Difficult Very Easy Easy Step 2: Insert the battery(Circle your answer) 2 Very Easy Easy Average Difficult Very Difficult Step 3: Insert the SD card(Circle your answer) 5 2 Very Difficult Very Easy Average Difficult Step 4: Set the lens focus mode to Automatic-Focus(AF) (Circle your answer) 3 4 2 Difficult Very Difficult Very Easy Easy Average Step 5: Set the power switch to ON(Circle your answer) 1 3 Very Difficult Difficult Very Easy Easy Average Step 6: Set the mode dial to Manual Exposure(Circle your answer) 2 3/ Average Difficult Very Difficult Very Easy Easy Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) (Circle your answer) 1 2 Very Easy Easy Average Difficult Very Difficult Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer) 1 Difficult Very Difficult Very Easy Average Easy Step 9: View the picture just taken (Circle your answer) 5 2) 3 1 Difficult Very Difficult Very Easy Average Step 10: Turn the DSLR camera off(Circle your answer) 1) 2 3 Difficult Very Difficult Very Easy Easy Average

Participant#

	Post-Test
	Canon Rebel T3
Please rate the following ta nor difficult, and 5 for very	sks using the following scale. 1 for very easy, 3 for neither easy difficult. (Circle your answers)
Was the camera easy to use?	(Circle your answer)
	3 4 5
Very Easy	Easy Average Difficult Very Difficult
The required steps were what	t I expected. (Circle your answer)
Yes	No N
The Instructions were helpful	(Circle your answer)
Very Lany	Very Different
Yes	No N
I would consider buying a Di	igital Single-Lens Reflex (DSLR) Camera after this demonstration.
(Circle your answer)	
Yes	No 4 5 Difficult Very Difficult
The instructions were not end	ough and I will probably need a manual for the camera. (Circle
your answer)	
Very Easy	Average Difficult Very Difficult
Yes	(No)

			iend. (Circle y	our answer)
1	(2)	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree
Please rate each step difficult, and 5 being	on a scale of 1 very difficult.	to 5. With 1	being very ea	ssy, 3 being neither easy nor
Step 1: Take off the lens	cap(Circle you	ur answer)		
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 2: Insert the battery	(Circle your	answer)		
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 3: Insert the SD card				
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 4: Set the lens focus		35	(Circle your	answer)
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 5: Set the power sw				went fortiers hant nurmen).
Very Easy	2 Easy	3 Average	4 Difficult	5 Very Difficult
Step 6: Set the mode dia				very Difficult
1	2	osure(Circle;	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
				e subject and press the shutter
button halfway.) (Circle			male-Lucia ke	design of the state of the stat
(1)	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 8: Take the picture	of the water b		e shutter butto	n completely) (Circle your answer)
	2 1	3	4	19115
Very Easy	Easy	Average	Difficult	Very Difficult
Step 9: View the picture	just taken(Cir c	ele your answ	er)	
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 10: Turn the DSLR c		le your answ	er)	
1)	_2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

		Post-Tes	t	
		Canon Rebel	T3 cloyour answer)	
Please rate t nor difficult	he following tas , and 5 for very		cale. 1 for very easy, 3 for nei	ther easy
Was the cam	era easy to use? ((Circle your answer)		
	1 to cap(Ci	3	4 5	
	Very Easy	Easy Average	Difficult Very Difficu	ılt
The required	steps were what	I expected. (Circle your	answer)	
	Yes	Nø		
The Instruction	ons were helpful.	. (Circle your answer)		
	y Kasy o power switch to	DN(Circle your answer)		
	Vad	No		
	Yes			
l would consi (Circle your		gital Single-Lens Reflex (DSLR) Camera after this demo	nstration.
(Circle your	answer)			
	Yes	No		
The instruction	ons were not enou	ugh and I will probably n	eed a manual for the camera. (C	Circle
your answer) Easy he FSFR comerci			
	Yes	(No)		
	168	(NO)		

			Part	icipant#Pa
I would consider recor	nmending the	camera to a frie	end. (Circle y	our answer)
1	(2)	3	1	5
Please 122 and the full	(2)	sundire emery	beginning ti	to test
Strongly Agree	Agrée	Neither	Disagree	Strongly Disagree
Please rate each step difficult, and 5 being	on a scale of very difficul	1 to 5. With 1 lt.	being very ea	sy, 3 being neither easy no
Step 1: Take off the lens	cap(Circle ye	our answer)		
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 2: Insert the battery	(Circle your	answer)		₩ .
	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 3: Insert the SD card	d(Circle your	answer)		
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 4: Set the lens focus	s mode to Auto	omatic-Focus(AF)	(Circle vour	answer)
1	(2)	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 5: Set the power sw	itch to ON(Ci	rcle your answ	er)	ast fearer your answer)
1	(2)	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
Step 6: Set the mode dia	l to Manual Ex			,
1	2	3	4	lm 5 Very Often
Very Easy	Easy	Average	Difficult	Very Difficult
Step 7: Focus on the wa	ter bottle (Air			e subject and press the shutter
button halfway.) (Circle	vour answe	r)	conten over the	e subject and press the shatter
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
				n completely) (Circle your answ
otep o. Take the picture	or the water	3	4	5
Very Easy	Easy	Average	4 Difficult	3
Step 9: View the picture				Very Difficult
otep o. view the picture		and the second of the second control of the second		_
Very Easy	(Z	3	4	5
	Easy	Average	Difficult	Very Difficult
Step 10: Turn the DSLR ca	The state of the s		,	_
Very Easy	2 Easy	3 Average	4 Difficult	5 Very Difficult

			Participa	2000 2000	Page 1
		Post-	Γest		
		Canon Ro	ebel T3		
		using the followi fficult. (Circle yo		ry easy, 3 for no	either easy
Was the camera e	easy to use? (C	ircle your answer) telag very easy,		
Very		Easy Av	3 4	5 alt Very Diffi	cult
Γhe required step	s were what I	expected. (Circle y	our answer)		
	Yes	No			
The Instructions ν	were helpful. (Circle your answ	er)		
(would consider	Yes huving a Digit	No al Single-Lens Rei	Pov (DSLP) Come	Very Dufficult	onatration
Circle your answ		ai Siligie-Lelis Kei	nex (DSLK) Came	arter this den	ionstration.
	Yes	No			
Γhe instructions ν	were not enoug	h and I will proba	bly need a manual	for the camera.	(Circle
your answer)	y Eng	Avecage	Difficult		
		Circle your anny 3 Average			
	Yes	No			

Participant#_

would consider reco	mmending the	camera to a frie	end. (Circle y	our answer)
	(2)	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree
lease rate each step ifficult, and 5 being			oeing very ea	sy, 3 being neither easy nor
tep 1: Take off the lens	s cap(Circle yo	ur answer)		
1	(2)	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
tep 2: Insert the batter	y(Circle your	answer)		
1	(2)	3	4	me 5 (Circle vane answer)
Very Easy	Easy	Average	Difficult	Very Difficult
tep 3: Insert the SD car	d(Circle your	answer)		AT 41
1	2	3	4	5
Very Easy	(Easy)	Average	Difficult	Very Difficult
tep 4: Set the lens focu				
1	(2)	3	4	5
Very Easy	(Easy/	Average	Difficult	Very Difficult
tep 5: Set the power sv	witch to ON(Cir	cle vour answ	er)	• 1
1	-2	3	4	5
Very Easy	(Easy)	Average	Difficult	Very Difficult
tep 6: Set the mode dia	al to Manual Exp	osure(Circle v	our answer)	
1	2	3	4	5
Very Easy	(Easy	Average	Difficult	Very Difficult
tep 7: Focus on the w	ater bottle (Aim	the viewfinder	center over th	e subject and press the shutter
utton halfway.) (Circl				,
1	(2)	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
				n completely) (Circle your answer)
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
tep 9: View the picture				
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
tep 10: Turn the DSLR				
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
	cred haying a l			

lease rate the following tasks using the following scale. 1 for very easy, 3 for neither easy or difficult, and 5 for very difficult. (Circle your answers) Vas the camera easy to use? (Circle your answer) 1		Post-Test		
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Very Easy Easy Average Difficult Very Difficult The required steps were what I expected. (Circle your answer) Yes No The Instructions were helpful. (Circle your answer) Yes No would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. Circle your answer) The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)	lease rate the following tasks or difficult, and 5 for very di	using the following sca	le. 1 for very easy	y, 3 for neither easy
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The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)	Very Easy Easy			
The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)	Yes			
Your answer) Average Difficult Mary Difficult Average Difficult Very Difficult Average Difficult Very Di	The instructions were not enough			
Very Easy Ency Average Difficult Very Difficult	your answer)			
(Yes) No	Very Easy Eng			
		No		

*			Part	icipant#8	Page 2
I would consider recom	nmending the c	amera to a fri	end. (Circle y	our answer)	
Please fill our like to	(2)	3	4	the tour 5	
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree	
Please rate each step of difficult, and 5 being v	on a scale of 1 very difficult.	to 5. With 1	being very ea	sy, 3 being neither easy	y nor
Step 1: Take off the lens of	can(Circle vou	r answer)			
(1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 2: Insert the battery	200			, ,	
H (1)	2	3	4	5 Circle your	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 3: Insert the SD card	(Circle your	answer)			
1	(2)	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 4: Set the lens focus	mode to Auton	natic-Focus(AF)	(Circle your	answer)	
1	(2)	3	4	5	
Very Easy				Very Difficult	
Step 5: Set the power swi	itch to ON(Circ	ele your answ	er)		
. (1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 6: Set the mode dial	to Manual Expo	sure(Circle y	our answer)		
1	2	(3)	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 7: Focus on the wat	ter bottle (Aim	the viewfinder	center over th	e subject and press the sh	utter
button halfway.) (Circle	your answer)	~			
(1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 8: Take the picture	of the water b	ottle (Press the	shutter butto	n completely) (Circle your	answer)
(1)	2	3	4	5	Total Control
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 9: View the picture j	ust taken(Circ	le your answe	er)		
(1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Step 10: Turn the QSLR ca				**************************************	
(1)	2	3	4	5	
Very Easy	Easy	Average	Difficult	Very Difficult	
Linear Same Annual Annual Control		District Circuit		(Tig) (1) (