## Appendix

Demographics Survey (filled before testing)	Plugin is the Carbon Buster animation
Plugin is the Carbon Buster animation	1. User ID
riugin is the Caroon busier animation	
1. User ID	2. What percentage did you compensate for from your cart? (for 90% enter 90)
2. Age	
	3. What was the biggest polluter of CO2 in your cart?
3. How often do you shop online?	Mark only one oval.
Mark only one oval.	Production
☐ Everyday	Transportation
☐ Everyday	☐ End of Life
Once a week	Materials
Once a month	☐ I don't know
Once every three months	
Every year	Only fill out the next question after you have done both iterations.
∐ Never	both iterations.
4. Degree of Education	4. Did you prefer the checkbox or the plugin (choose 1)
Mark only one oval.	Tick all that apply.
☐ Elementary School	Checkbox
Secondary School	☐ Plug-In
Apprenticeship	_ 0
Matura/BMS	5. Why did you prefer one over the other?
Bachelor	
☐ Master	
☐ PhD	
5. From 1 to 5 how much would you say you are knowledgeable on CO2 pollution and environmental	Checkbox Information Survey (filled at the end of task 1)
issues?	Plugin is the Carbon Buster animation
Mark only one oval.	1. User ID
□ 1	
□ 3	2. What percentage did you compensate from your cart?
☐ 4	(for 90% enter 90)
□ 5	
	Only fill out the next question after you have done
Ructore Information Survey (filled at the and of teel-	both iterations.
Busters Information Survey (filled at the end of task 1)	2. Did you prefer the checkbox or the plugin (choose 1)

Tick all that apply.	□ 4
	<u> </u>
Checkbox	
Plug-In	5. Did you ever know you could change the character on
4. Why did you prefer one over the other?	the CO2 Buster?
4. Why did you prefer one over the other?	Mark only one oval.
	•
	Yes
	☐ No
User Experience Questionnaire (filled at the end of	
task 2)	6. On a scale from 1-5, how intuitive was it to change the character of CO2 Buster?
	Character of CO2 Buster:
Please answer every question to the best of your ability.	Mark only one oval. $(1 = Not Very, 5 = Obvious)$
1. User ID	
	<u> </u>
	<u></u> 2
Task 1	<u></u> 3
	<u> </u>
When you had a budget and saved money	<u> </u>
2. How many different input layouts did you come	7. On a scale from 1-5, how intuitive was it to hover over
across?	the clouds for more information?
Mark only one oval.	Mark only one oval. $(1 = Not Very, 5 = Obvious)$
mark only one oval.	
<u> </u>	□ 1
□ 2	<u> </u>
☐ 3	☐ 3
☐ 4	<b>4</b>
<u> </u>	☐ 5
3. On a scale from 1-5, how accessible was it to change	8. On a scale from 1-5, how intuitive was it to change the character and backgrounds?
the CO2 compensation level on the plugin?	character and backgrounds:
Mark only one oval. $(1 = Hard, 5 = Easy)$	Mark only one oval. $(1 = Not Very, 5 = Obvious)$
	<u> </u>
□ 2	
<u> </u>	<u></u> 3
_ 4	∐ 4
<u> </u>	<u> </u>
4. On a scale from 1-5, how accessible was it to	Task 2
understand what the clouds meant?	
	When you had to maximise CO2 compensation
Mark only one oval. $(1 = Hard, 5 = Easy)$	9. How many different input layouts did you come
	across?
☐ 2 ☐ 2	Mark only one oval.

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
10. On a scale from 1-5, how intuitive was it to use the continuous slider?
Mark only one oval. $(1 = Not Very, 5 = Obvious)$
<ul> <li>□ 1</li> <li>□ 2</li> <li>□ 3</li> <li>□ 4</li> <li>□ 5</li> </ul>
11. On a scale from 1-5, how intuitive was it to use the discrete checkboxes?
Mark only one oval. $(1 = Not Very, 5 = Obvious)$
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
12. On a scale from 1-5, how intuitive was it to use the input box for CO2 compensation level?
Mark only one oval. $(1 = Simple, 5 = Difficult)$
☐ 1 ☐ 2 ☐ 3

Thanks and have a nice day!

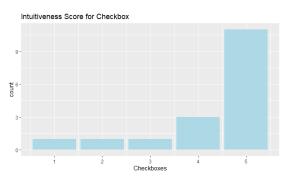


Figure 1: Intuitiveness Score for Checkbox

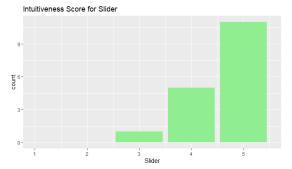


Figure 2: Intuitiveness Score for Slider

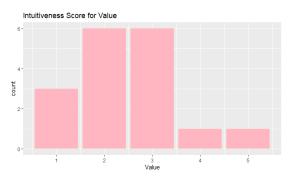


Figure 3: Intuitiveness Score for Value Input

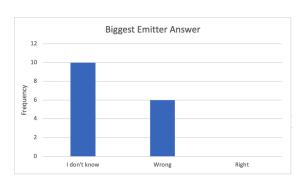


Figure 4: Biggest Emitter Answers

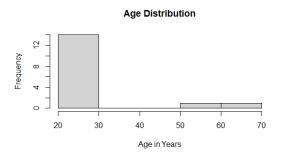


Figure 5: Age Distribution

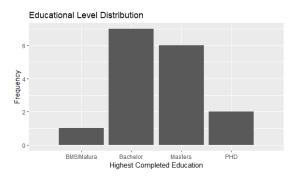


Figure 6: Educational Level Distribution

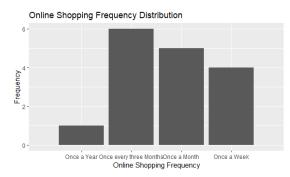


Figure 7: Online Shopping Frequency Distribution

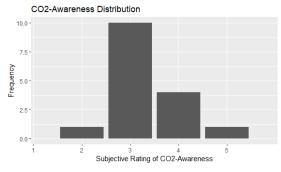


Figure 8: CO2-Awareness Distribution

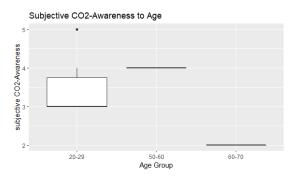


Figure 9: Subjective CO2-Awareness to Age

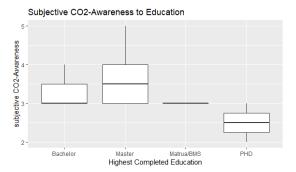


Figure 10: Subjective CO2-Awareness to Education

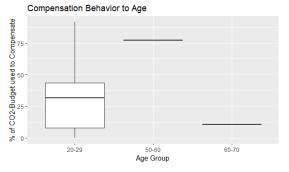


Figure 11: Compensation Behavior to Age

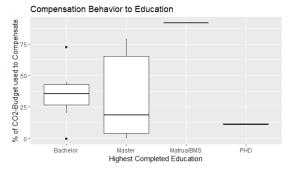


Figure 12: Compensation Behavior to Education

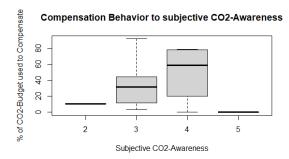


Figure 13: Compensation Behavior to Subjective CO2-Awareness



Figure 14: Compensation Behavior to Online Shopping Frequency

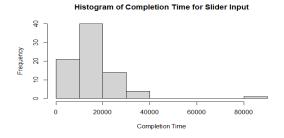


Figure 15: Histogram of Completion Time for Slider
Input
Shapiro-Wilk test: W=0.72759, p-value=6.972e-11, thus
the null hypothesis is rejected

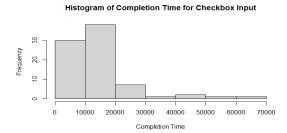


Figure 16: Histogram of Completion Time for Checkbox
Input
Shapiro-Wilk test: W=0.69147, p-value=1.121e-11, thus
the null hypothesis is rejected

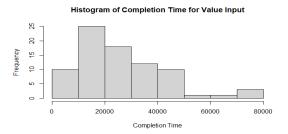


Figure 17: Histogram of Completion Time for Value
Input
Shapiro-Wilk test: W=0.90929, p-value=3.074e-05, thus
the null hypothesis is rejected

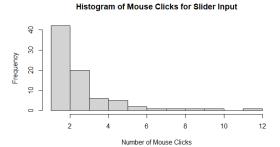


Figure 18: Histogram of Mouse Clicks for Slider Input Shapiro-Wilk test: W=0.72301, p-value=5.484e-11, thus the null hypothesis is rejected

## Histogram of Mouse Clicks for Checkbox Input

Figure 19: Histogram of Mouse Clicks for Checkbox
Input
Shapiro-Wilk test: W=0.86111, p-value=3.896e-07, thus
the null hypothesis is rejected

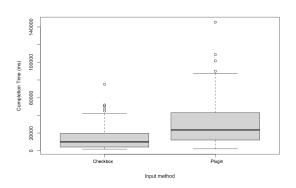


Figure 22: Box Plot of Completion Time for Checkbox vs Plugin

## Histogram of Mouse Clicks for Value Input

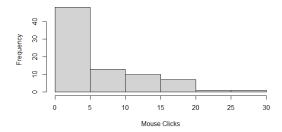


Figure 20: Histogram of Mouse Clicks for Value Input Shapiro-Wilk test: W=0.82296, p-value=2.222e-08, thus the null hypothesis is rejected

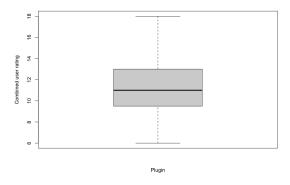


Figure 21: Box Plot of Combined User Rating for Plugin