

Supplementary Materials

Table S1. Map-reading tasks with respective question.

#	Map-Reading Task:	Question:	Map Design Elements:
1	T1: Identify location	Can you identify the Universidad de Valle on the map? Please tap on the map. Which of the malls on the map is the closest to the University del Valle? Please tap on the map.	Static Landmark map
2		Which of the malls is furthest away from the University del Valle? Please tap on the map.	Restricted Landmark map
3		Can you identify the Exito in San Flora on the map? Please tap on the map.	Non-restricted Landmark map
4		Which of the parks is closest to Palmetto Mall? Please tap on the map.	Static Simple map
5		Which of the malls on the map is the furthest away from the Zoo? Please tap on the map.	Restricted Simple map
6		Can you identify the Estadio Pascual Guerrero on the map? Please tap on the map.	Non-restricted Simple map
7		Which is the closest park to your location? Please tap on the map.	Static Mapbox Streets
8		Which is the closest supermarket to your location? Please tap on the map.	Restricted Mapbox Streets
9		Which is the closest street to your location? Please tap on the map.	Non-restricted Mapbox Streets
10	T2: Select a single point feature	Can you identify the Estadio Pascual Guerrero on the map? Please select.	Static Landmark map
11		Can you identify the park on the map that is furthest away from the Cosmocentro mall? Please select.	Restricted Landmark map
12		Which of the following areas is closest to you: Coliseo El Pueblo or Parque El Ingenio? Please select.	Non-restricted Landmark map
13		Can you identify the Universidad de Valle on the map? Please select.	Static Simple map
14		Which of the malls on the map is the closest to your location? Please select.	Restricted Simple map
15		Which of the malls on the map is the furthest away from your location? Please select.	Non-restricted Simple map
16		Can you identify the Parque El Ingenio on the map? Please select.	Static Mapbox Streets
17		Which of the following mall is closest to you: Centenario or Unicentro? Please select.	Restricted Mapbox Streets
18		Which of the following parks is furthest away from you: Parque San Antonio or Parque El Ingenio? Please select.	Non-restricted Mapbox Streets
19	T3: Select multiple point features	Can you identify both the Zoologico and Parque San Antonio? Please select.	Static Landmark map
20		Which two of the malls are closest to University ICESI? Please select.	Restricted Landmark map
21		Can you identify all parks on the map? Please select.	Non-restricted Landmark map
22		Can you identify the mall Chipichape and Pasarela? Please select.	Static Simple map
23		Which two parks are closest to you? Please select.	Restricted Simple map
24		Which two malls are closest to you? Please select.	Non-restricted Simple map
25		Can you identify the University Pontificia Javeriana and ICESI? Please select.	Static Mapbox Streets
26		Can you identify the malls Jardin Plaza and Chipichape? Please select.	Restricted Mapbox Streets
27		Can you identify the Zoologico and the Coliseo El Pueblo? Please select.	Non-restricted Mapbox Streets

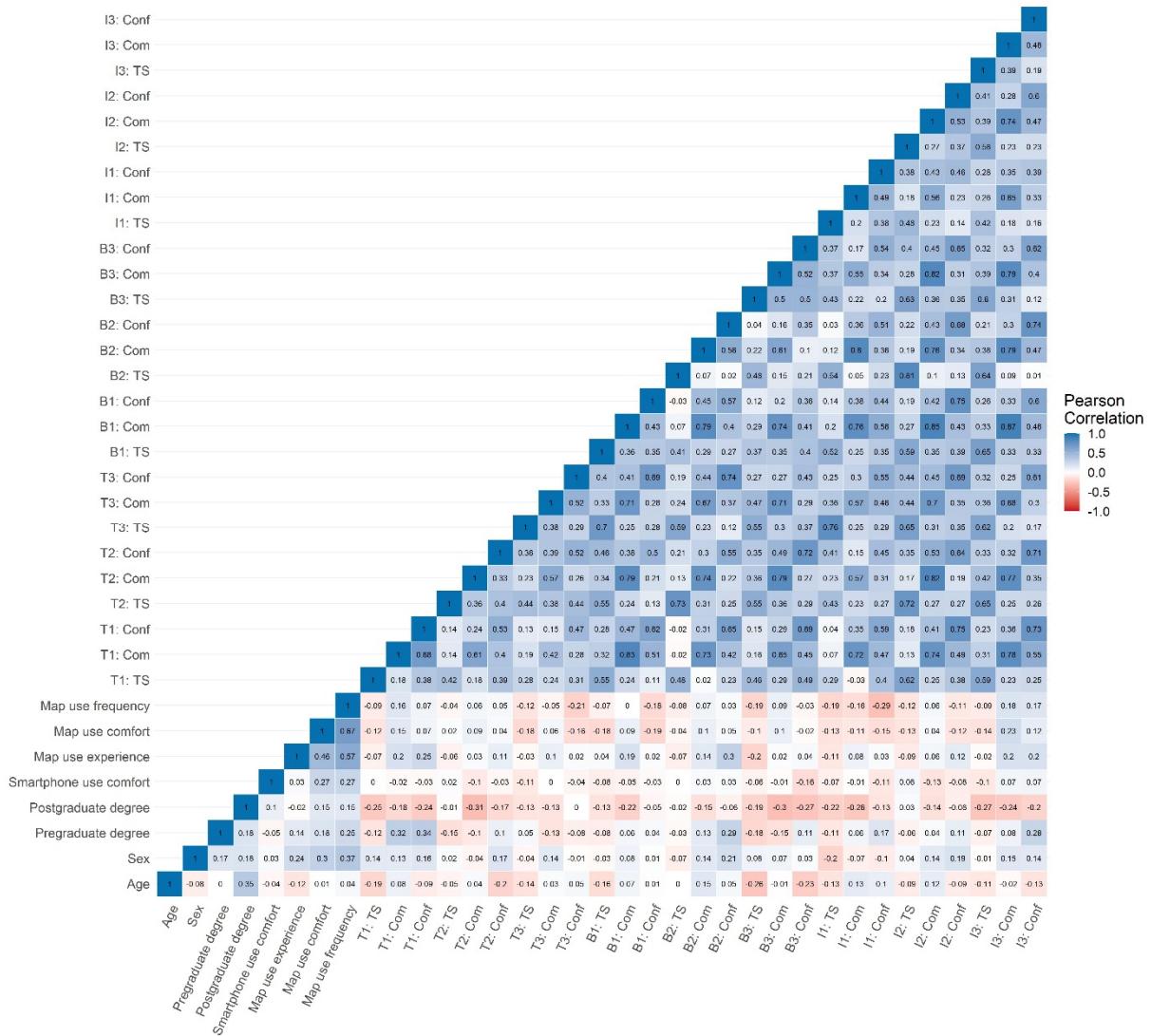


Figure S1. Correlation matrix of participant characteristics and usability metrics (with TS = task success; Com = comfort ratings; Conf = confidence ratings) of map design variations.

40	-0.41	-0.38	0.17	-0.75	-0.64	-0.67	0.75	0.59	-0.53	-0.38	-0.38	-0.76	0.11	-0.14	0.89	0.01	0.67	0.77	-0.27	-0.44	-0.55	-0.02	-0.15	1.08	0.35	0.55	-0.05
41	0.45	-0.37	-0.04	-0.24	-0.50	-0.07	-0.41	1.20	-0.03	-0.20	-0.43	-0.03	-0.27	-0.12	-0.07	0.50	0.49	-0.05	-0.24	-0.47	-0.02	0.42	-0.43	-0.03	-0.36	0.84	-0.11
42	0.37	0.18	-0.09	-0.32	-0.53	-0.47	-0.52	-0.43	-0.36	-0.56	0.99	0.21	0.20	-0.44	-0.33	0.45	-0.15	0.25	-0.16	1.19	1.79	0.76	-0.65	-0.57	-0.61	0.26	-0.59
43	-0.24	0.63	-0.04	-0.23	-0.61	-0.23	-0.42	-0.51	-0.17	-0.30	0.20	0.47	-0.24	0.53	-0.19	-0.52	0.34	-0.27	-0.20	0.53	-0.19	-0.35	0.06	-0.27	-0.42	0.69	0.40
44	0.40	-0.26	-0.04	-0.22	-0.35	-0.09	-0.35	0.77	-0.04	-0.20	-0.30	-0.03	-0.28	-0.35	-0.06	0.60	0.63	-0.07	-0.20	-0.33	-0.03	0.41	-0.31	-0.04	-0.32	0.53	-0.11
45	0.13	0.05	-0.12	0.11	0.14	0.34	0.09	0.16	-0.17	0.10	0.08	-0.22	0.16	-0.06	-0.12	-0.03	0.31	0.13	0.25	-0.01	-0.02	0.06	0.22	-0.09	-0.02	0.06	-0.01
46	0.00	-0.21	-0.47	-1.01	-0.13	1.41	-0.47	0.19	0.03	0.26	0.18	0.45	-1.07	0.21	0.78	-0.26	-0.18	-0.25	-0.25	-0.81	-0.57	-1.25	0.18	0.46	-0.17	0.22	-0.07
47	0.17	0.07	0.19	-1.06	-0.21	-0.74	0.91	-0.47	-0.37	0.41	-0.21	-0.22	-0.01	-0.10	-0.19	-0.13	-0.10	0.06	1.22	0.64	1.32	-0.78	-0.34	-0.38	0.41	-0.26	-0.34
48	-0.52	0.87	0.07	-0.15	-0.08	-0.79	-0.22	-0.62	0.01	1.05	0.98	0.52	-1.24	0.73	-0.05	-1.31	-0.49	-0.12	-0.64	1.45	-0.35	0.03	-0.65	-0.79	-1.12	0.80	0.58
49	-0.62	-0.57	0.00	-0.05	0.29	-0.09	0.39	0.66	0.07	0.72	0.45	0.27	-0.36	0.91	0.95	-1.05	-0.82	0.01	1.30	1.96	2.19	-0.24	-0.39	-0.57	-0.80	-0.33	0.12
50	0.35	0.22	0.24	-0.83	-0.43	-1.05	0.41	-0.23	0.21	0.55	-0.11	0.21	-0.31	-0.26	-0.40	0.02	0.40	0.43	1.20	-0.29	-0.59	-0.45	-0.66	-0.65	0.15	0.67	0.80