Appendix 1. Evaluation of the combined application of static and dynamic visual variables, sound variables and related methods of presentation for users of different age groups

Number of static visual variables		Number of static and dynamic variables	Dynamized variables	Entities and levels	Combinations of variables	Methods of presentation	Age groups
dynamized variables	other variables						
1	4	10	1 2 3 4	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	αc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	βc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	Ic, Sβc, Kβc (cs), Kdβc (cs), CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	Kγc(cs), KαBc, KDγb, CAAND, CAANR	[2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4; ④⑥⑧⑨	KαBc, Kγc(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4; ⑦⑥⑧⑨	Sαc	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4; ⑦⑥⑧⑨	MCa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	αb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	Sαb, Kαb, Kdαb	[2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	αc	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	βc	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	Ic, Sβc, Kβc (cs), Kdβc (cs), CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	Kγc(cs), KαBc, KDγb, CAAND, CAANR	[2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γc	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ②③⑥⑧⑨	KαBc, Kγ c(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII); ⑤⑥⑧⑨	Sαc	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) ; ⑤⑥⑧⑨	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	4	10	1 2 3 4	γa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) ; ⑤⑥⑧⑨	MCA, MZa	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 5	βa	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 5	βb	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 5	γa	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII)	MCa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 7	αa	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 7	αb	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 7	βa	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 7	βb	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 8	αa	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 8	αb	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 8	βa	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 8	βb	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 9	αa	1 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 9	αb	1 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
1	5	11	1 2 3 4 9	αc	1 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}

Number of static visual variables		Number of static and dynamic variables	Dynamized variables	Entities and levels	Combinations of variables	Methods of presentation	Age groups
dynamized variables	other variables						
2	5	16	1 2 3 4	βc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	Sβc, Kβc (cs), KDBC (CS), CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	γb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	Kγc(cs), KαBc, KDγb, CAAND, CAANR	[2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	αa	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	16	1 2 3 4	γa	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4; ④⑥⑧⑨ ②③⑥⑧⑨	MCa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7(I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7(I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7(I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αa	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 9 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	γa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 5 (I, **II**, **III**, IV, **V**, VII)	MCA, MZa	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 7 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	αb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	αa	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	αb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αa	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αc	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 5	γa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII)	MCa,	[1] [2] [3] [4] [5] [6] {7}

Number of static visual variables		Number of static and dynamic variables	Dynamized variables	Entities and levels	Combinations of variables	Methods of presentation	Age groups
dynamized variables	other variables						
2	5	17	1 2 3 4 7	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 7	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 8	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	5	17	1 2 3 4 9	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 5 7	βa	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 5 7	βb	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 5 8	βa	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 5 8	βb	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 7 8	αa	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 7 8	βa	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 7 8	βb	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 7 9	αb	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 8 9	αa	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
2	6	18	1 2 3 4 8 9	αb	1 2 3 4 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	4	22	1 2 3 4	βc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 (I, **II**, **III**, IV, **V**, VII); ④⑥⑧⑨ ②③⑥⑧⑨ ⑤⑥⑧⑨	Ic, Sβc, Kβc (cs), Kdβc (cs), CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 5	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5(I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 5	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5(I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 7	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 7	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 8	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAAND, CAANR	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	αc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	αc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 5	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 5	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 7	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 7	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}

Number of static visual variables		Number of static and dynamic variables	Dynamized variables	Entities and levels	Combinations of variables	Methods of presentation	Age groups
dynamized variables	other variables						
3	5	23	1 2 3 4 5	γa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII)	MCa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 7	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 8	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	5	23	1 2 3 4 9	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	αa	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	βa	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 8	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	SβA, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 7	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 7	βa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	SβA, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	4	1 2 3 4 5 7	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 5 7	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 9	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	βa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 9	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 7 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	αb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 9	αb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 8 9	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 8 9	αc	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Kc, Sαc, Kαc (cs), Kdαc (cs)	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 8	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	6	24	1 2 3 4 7 9	αa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
3	7	25	1 2 3 4 5 7 8	βa	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
3	7	25	1 2 3 4 5 7 8	βb	1 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
3	7	25	1 2 3 4 7 8 9	αa	1 2 3 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 5 7	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 5 7	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 5 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 5 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR,	[1] [2] [3] [4] [5] [6] {7}

Number of static visual variables		Number of static and dynamic variables	Dynamized variables	Entities and levels	Combinations of variables	Methods of presentation	Age groups
dynamized variables	other variables						
						CAACIR, CAAND, CAANR, CAANE	
4	6	30	1 2 3 4 7 8	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαb, Kαb, Kdαb	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 7 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 7 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
4	6	30	1 2 3 4 7 8	αa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
4	7	31	1 2 3 4 5 7 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
4	7	31	1 2 3 4 5 7 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
4	7	31	1 2 3 4 5 7 8	βb	1 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb	[1] [2] [3] [4] [5] [6] {7}
4	7	31	1 2 3 4 5 7 8	βa	1 2 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}
5	7	37	1 2 3 4 5 7 8	βb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβb, Kβb, Kdβb, CADm, CADp	[1] [2] [3] [4] [5] [6] {7}
5	7	37	1 2 3 4 5 7 8	γc	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	KαBc, KγC(cs), KDγC(cs), CAACDr, CAACDs, CAACDd, CAACR, CAACIR, CAAND, CAANR, CAANE	[1] [2] [3] [4] [5] [6] {7}
5	7	37	1 2 3 4 7 8 9	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
5	7	37	1 2 3 4 7 8 9	αb	1 (I, **II**, **III**, IV, **V**, VII) 2 3 (I, **II**, **III**, IV, **V**, VII) 4 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII) 9 (I, **II**, **III**, IV, **V**, VII)	Sαc	[1] [2] [3] [4] [5] [6] {7}
5	7	37	1 2 3 4 5 7 8	βa	1 2 (I, **II**, **III**, IV, **V**, VII) 3 4 (I, **II**, **III**, IV, **V**, VII) 5 (I, **II**, **III**, IV, **V**, VII) 7 (I, **II**, **III**, IV, **V**, VII) 8 (I, **II**, **III**, IV, **V**, VII)	Sβa, MZa	[1] [2] [3] [4] [5] [6] {7}

Key:

Static visual variables

1 size; 2 form; 3 value; 4 colour; 5 grain; 6 orientation; 7 brilliance; 8 transparency; 9 aura; dynamized variables are underlined

Sound variables
② Pitch; ③ Register; ④ Loudness; ⑤ Timbre; ⑥ Duration;⑦ Rhytm; ⑧ Rate of change; ⑨ Order; ⑩ Frequency

Entities / measurement levels

α point entities; β line entities; γ area entities;
a - nominal scale measurable entities; b - ordinary scale measurable entities; c - quantitative scale measurable entities

Methods of presentations

Sαb – Ordinary point signatures,
Kαb – Ordinary point choropleth maps,
Kdαb – Ordinary point cartodiagrams
Kc – Dot method,
Sαc – Quantitative point signatures,
Kαc (cs) – Quantitative point choropleth maps,
Kdαc (cs) - Quantitative point cartodiagrams,
Sβb – Ordinary line signatures,
Kβb – Ordinary line choropleth maps,
Kdβb - Ordinary line cartodiagrams
Ic – isoline maps,
Sβa – Qualitative line signatures,

Sβc – Quantitative line signatures,
Kβc (cs) - Quantitative line choropleth maps,
Kdβc (cs) - Quantitative line cartodiagrams
KαBb – Ordinary Bertin's choropleth map,
Kγb – Ordinary area choropleth maps,
KDγb – Ordinary dasimetric choropleth maps,
KαBc - Quantitative Bertin's choropleth map,
Kγc(cs) - Quantitative area choropleth maps,
KDγc(cs) - Quantitative dasimetric choropleth maps,
Sαa – Qualitative point signatures
MCa – Chorochromatic method maps,
MZa – Range maps

CAACDr – Rectangular anamorphic cartodiagram
CADp – Polycentric distance cartograms
CAACDs – Square anamorphic cartodiagrams
CAACDd – Dorling cartograms
CAACR – Contiguous regular (mosaic) cartograms
CAACIR – Contiguous irregular cartograms
CAAND – Noncontiguous diagram cartograms
CAANR – Nocontiguous regular cartograms
CAANE – Noncontiguous equiform cartograms
CADm – Monocentric distance cartograms
CADp – Polycentric distance cartograms

The methods distinguished by italics are conditional for seventh age group

Age groups
[1] [2] [3] [4] [5] [6] [7] - correct combination of variables for labelled age groups
{1} {2} {3} {4} {5} {6} {7} {8} conditional combination of variables for labelled age groups

Correct combination	Combination inaccessible due to the absence of *colour*	Combination inaccessible due to the absence of *aura*	Combination inaccessible due to the absence of *colour* and *aura*