Co-Abstraction of Shape Collections
Supplemental Document

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This document is a supplemental file to the paper: Mehmet Ersin Yumer, Levent Burak Kara. "Co-Abstraction of Shape Collections". In *ACM Transactions of Graphics (TOG)*, vol. 31, no. 6. (Proceedings of SIGGRAPH Asia 2012.)

This document is composed of three parts:
1. Exemplar abstraction geometries from abstraction spectra of various models used in the paper.
2. Six collections and corresponding abstractions used in the first part of the user study.
3. Four co-abstracted collections and abstraction spectra of one object used in the second part of the user study.

1 Abstraction Spectrum Exemplars

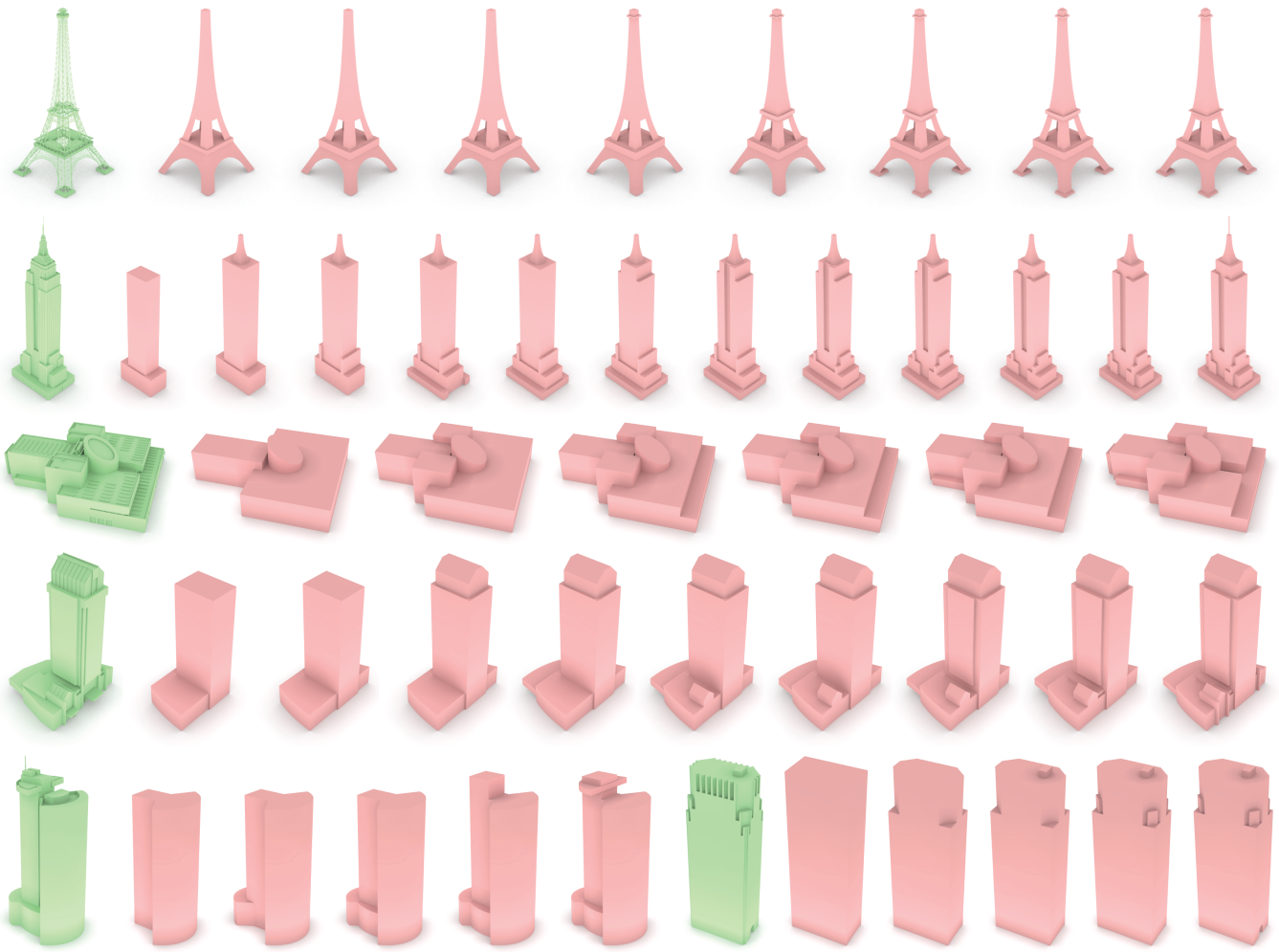

Figure A.1: Abstraction spectra exemplars I

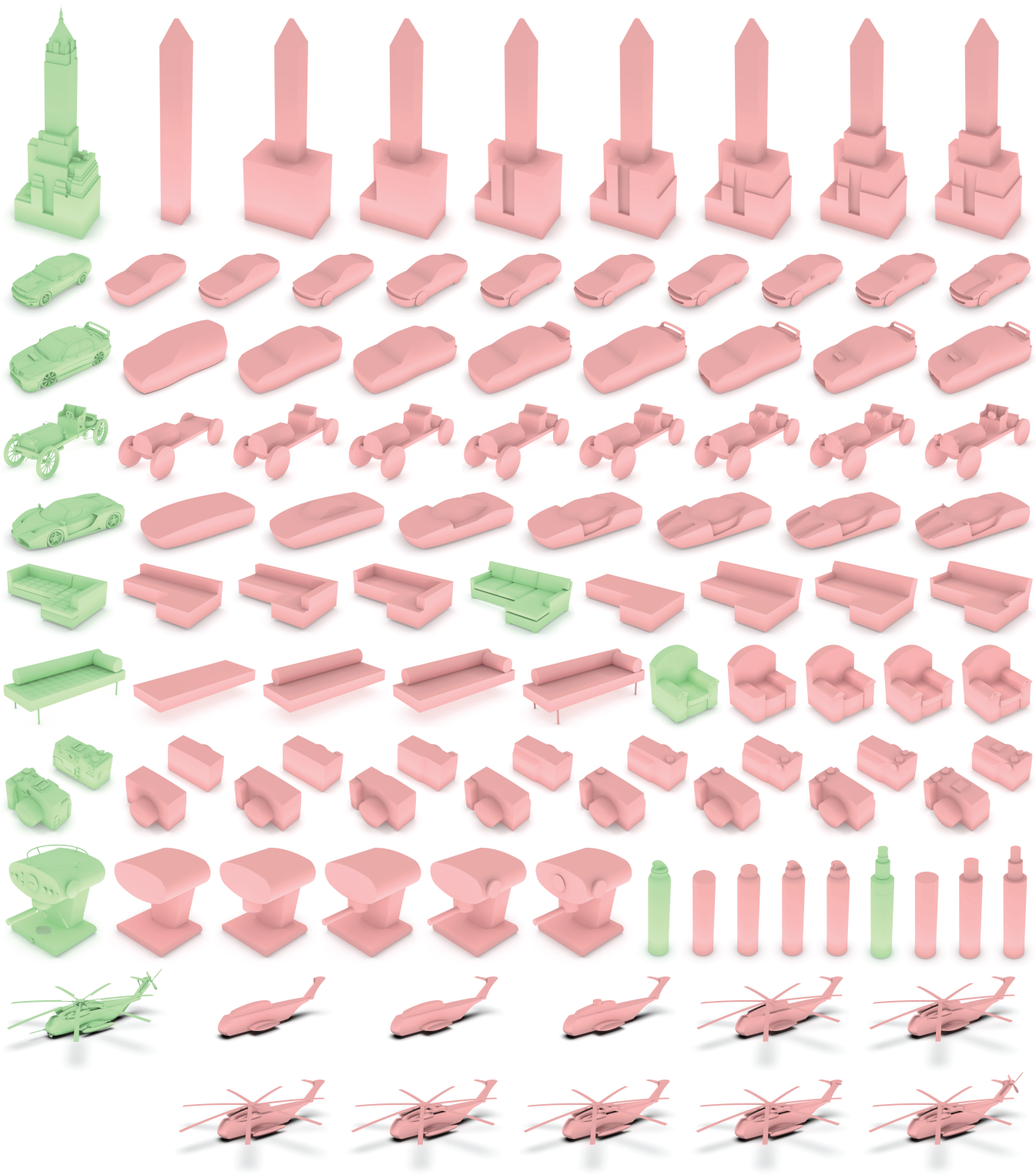

Figure A.2: Abstraction spectra exemplars II.

2 Collections Used in the First Part of the User Study

(Corresponding to Figure 13a-b of the paper)

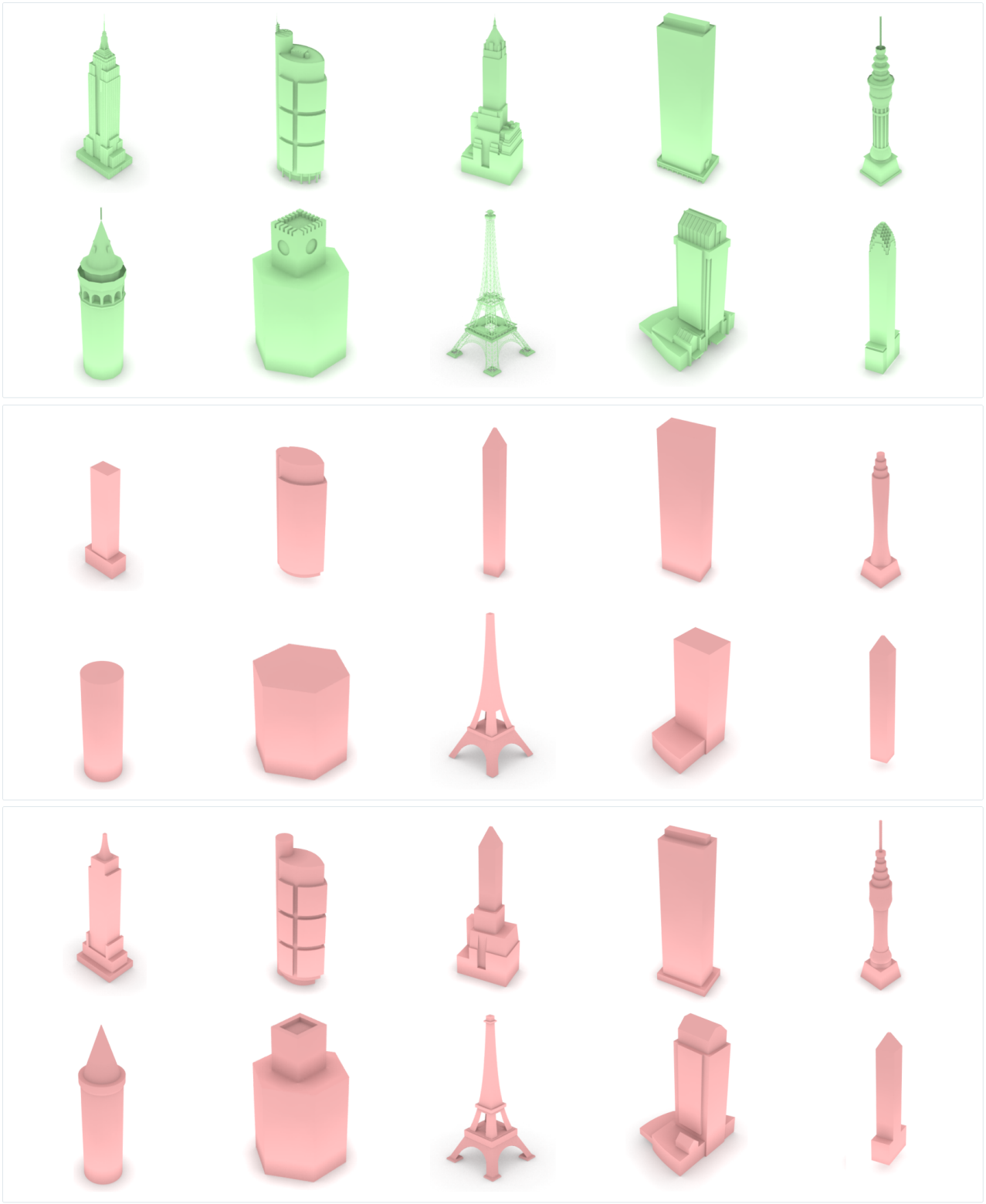

Figure A.3: Top: collection #1. Middle: fully abstracted. Bottom: co-abstracted.

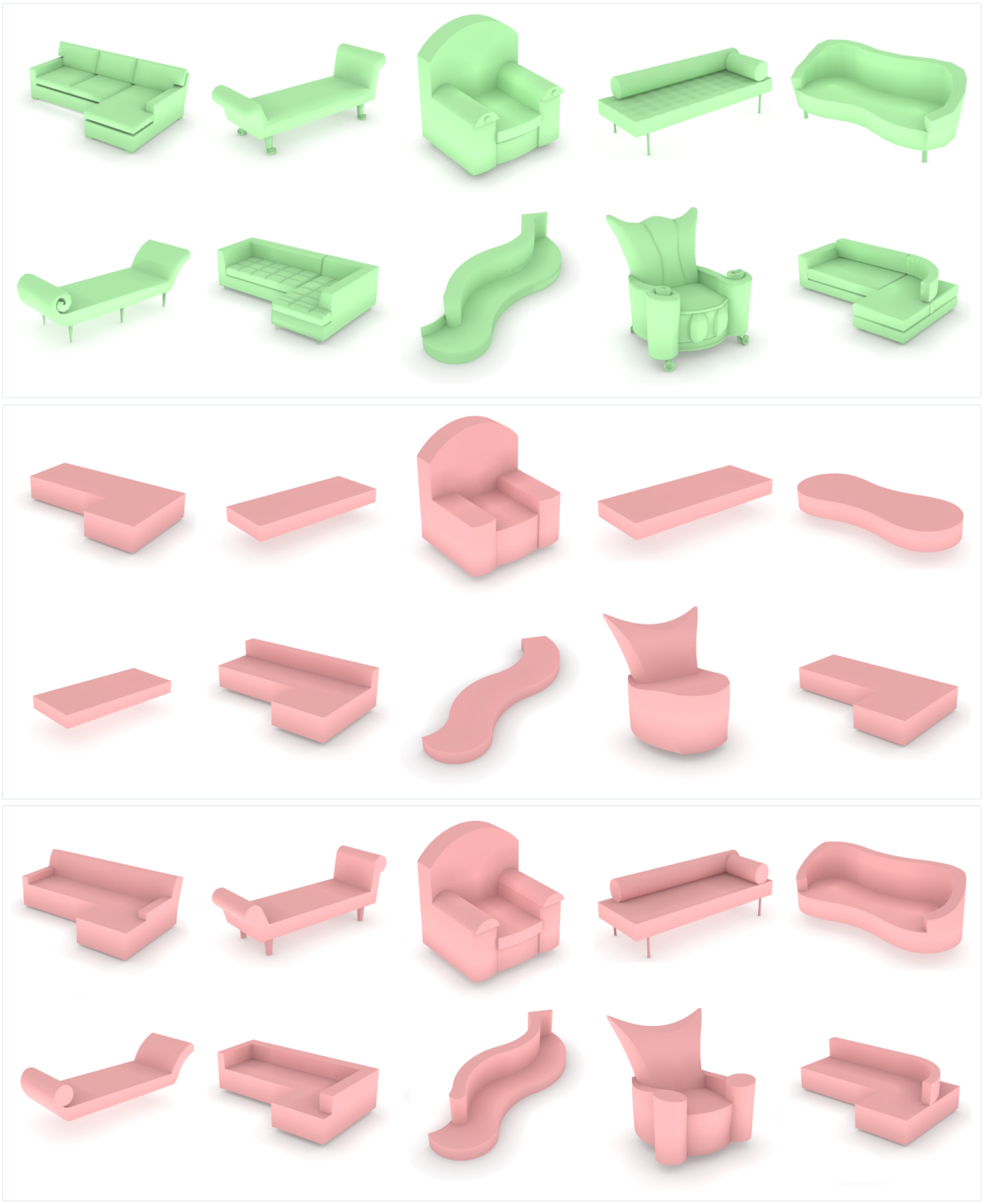

Figure A.4: Top: collection #2. Middle: fully abstracted. Bottom: co-abstracted.

Figure A.5: Top: collection #3. Middle: fully abstracted. Bottom: co-abstracted.

Figure A.6: Top: collection #4. Middle: fully abstracted. Bottom: co-abstracted.

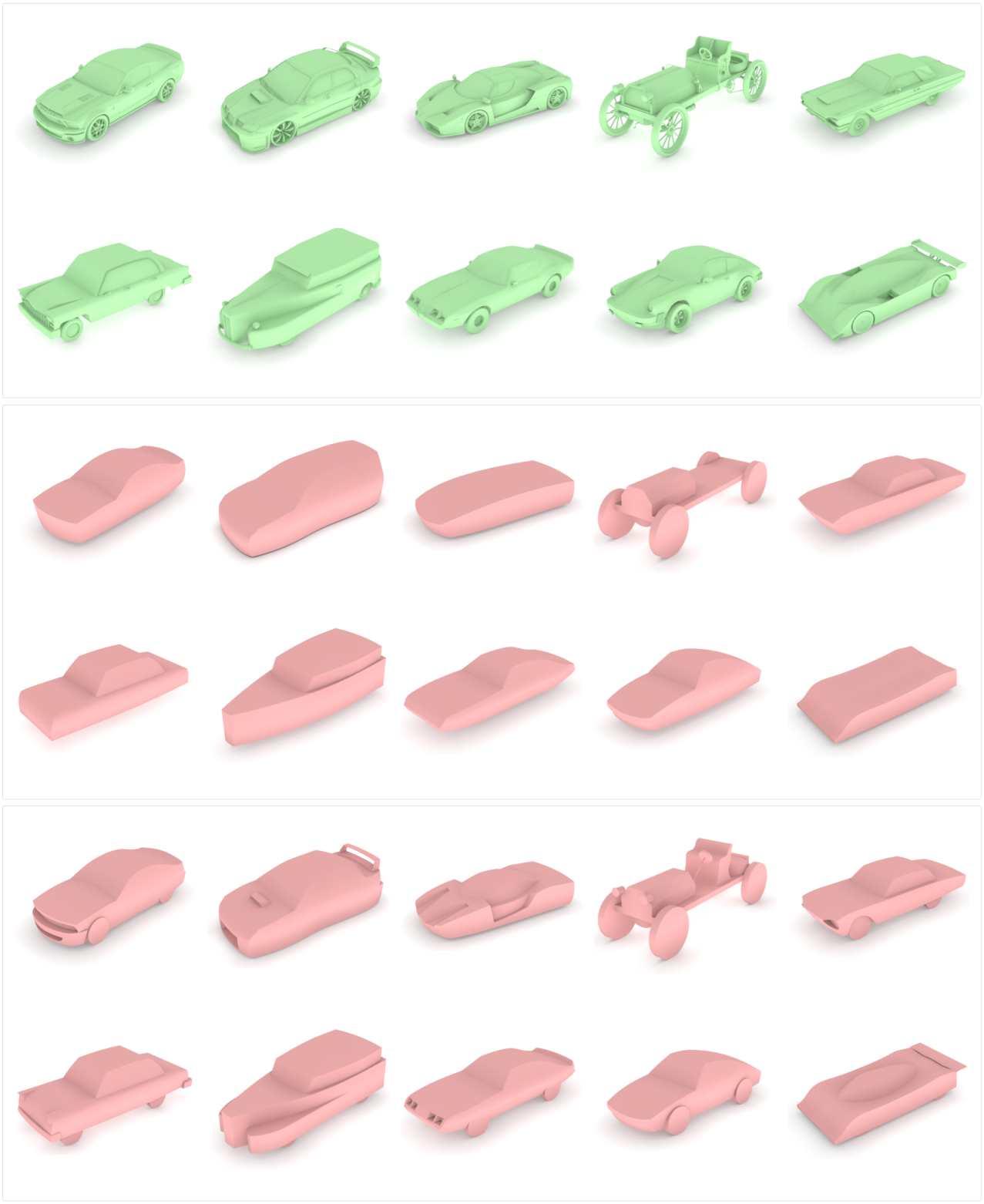

Figure A.7: Top: collection #5. Middle: fully abstracted. Bottom: co-abstracted.

Figure A.8: Top: collection #6. Middle: fully abstracted. Bottom: co-abstracted.

3 Co-abstracted Collections and Abstraction Spectra Used in the Second Part of the User Study

(Corresponding to Figure 13c-f of the paper)

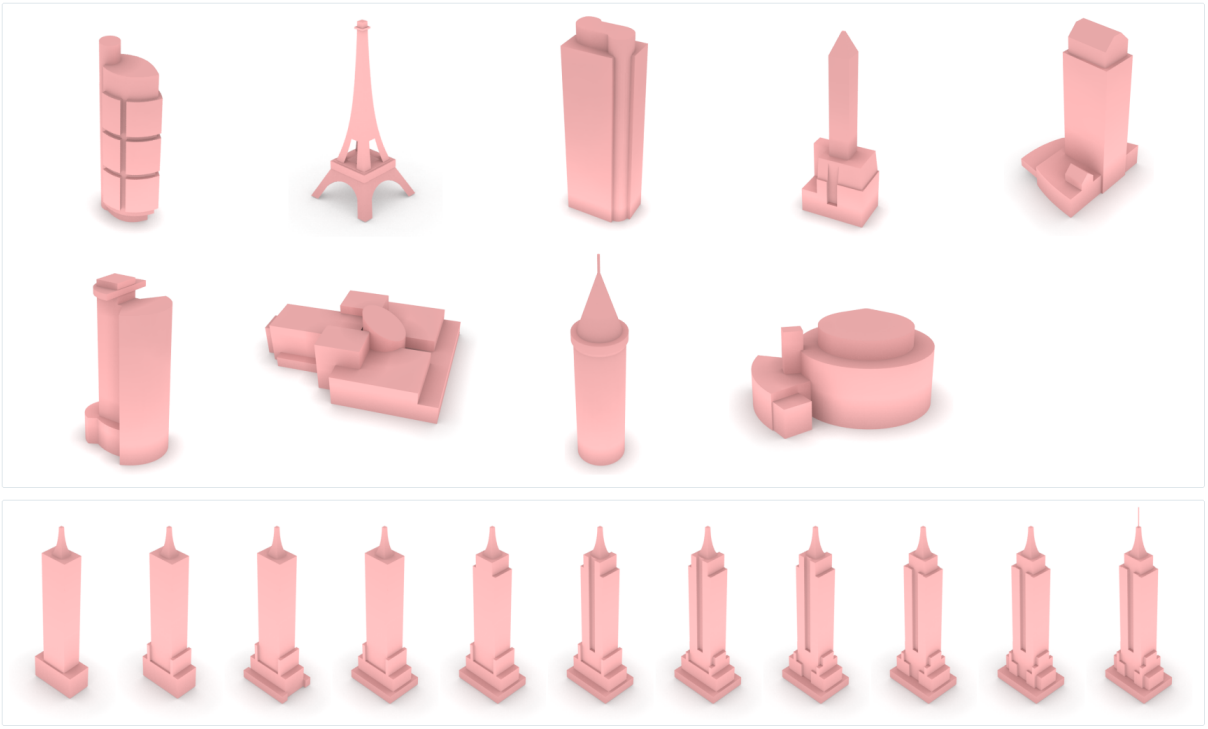

Figure A.9: Top: co-abstracted set. Bottom: missing object's spectrum. (Corresponding to Figure 13c of the paper)

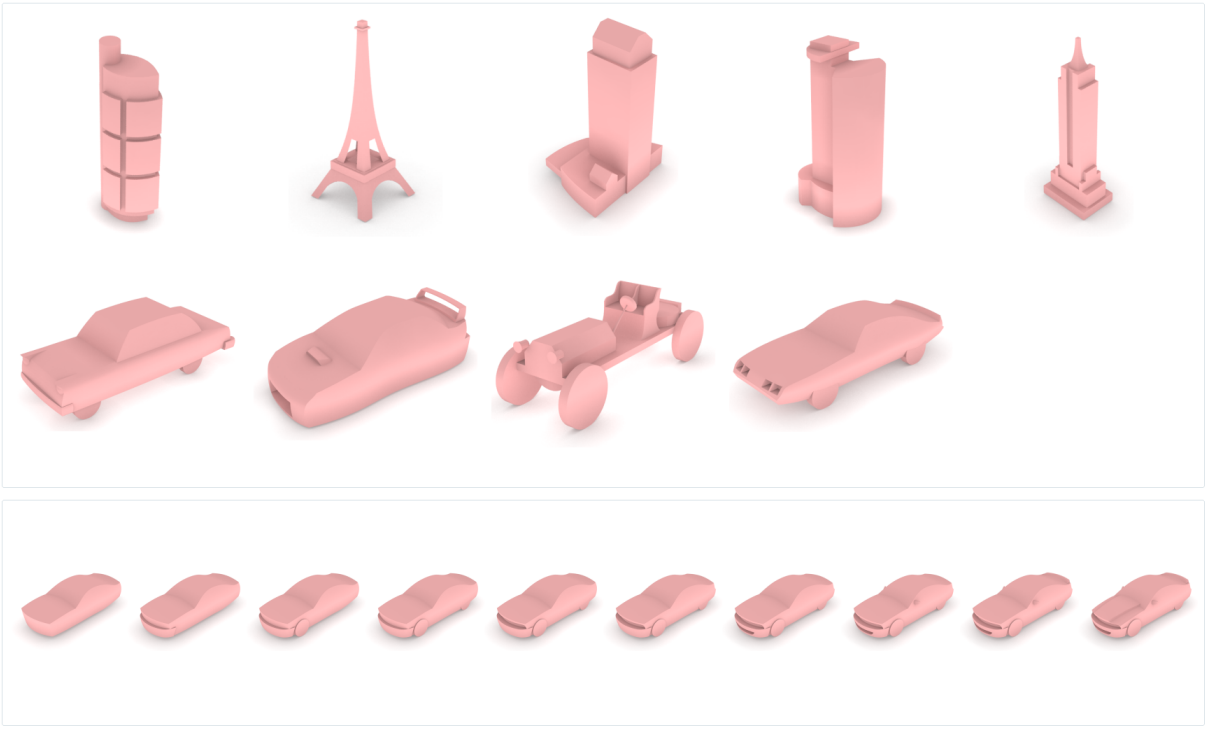

Figure A.10: Top: co-abstracted set. Bottom: missing object's spectrum. (Corresponding to Figure 13d of the paper)

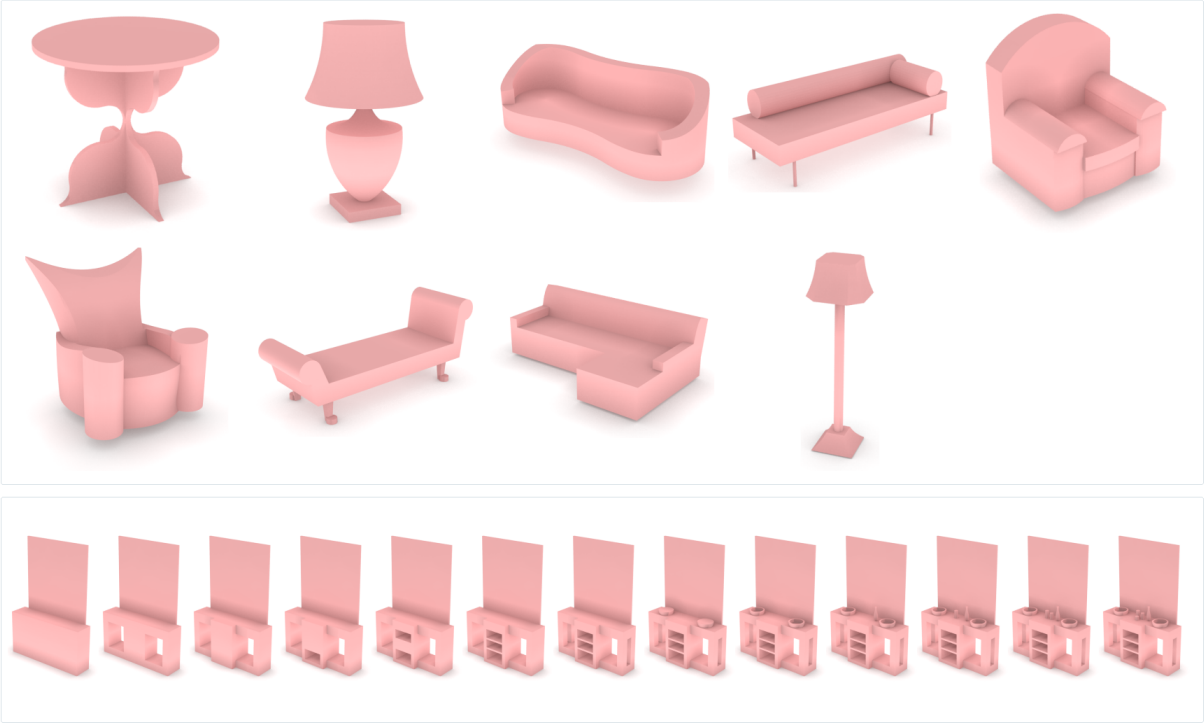

Figure A.11: Top: co-abstracted set. Bottom: missing object's spectrum. (Corresponding to Figure 13e of the paper)

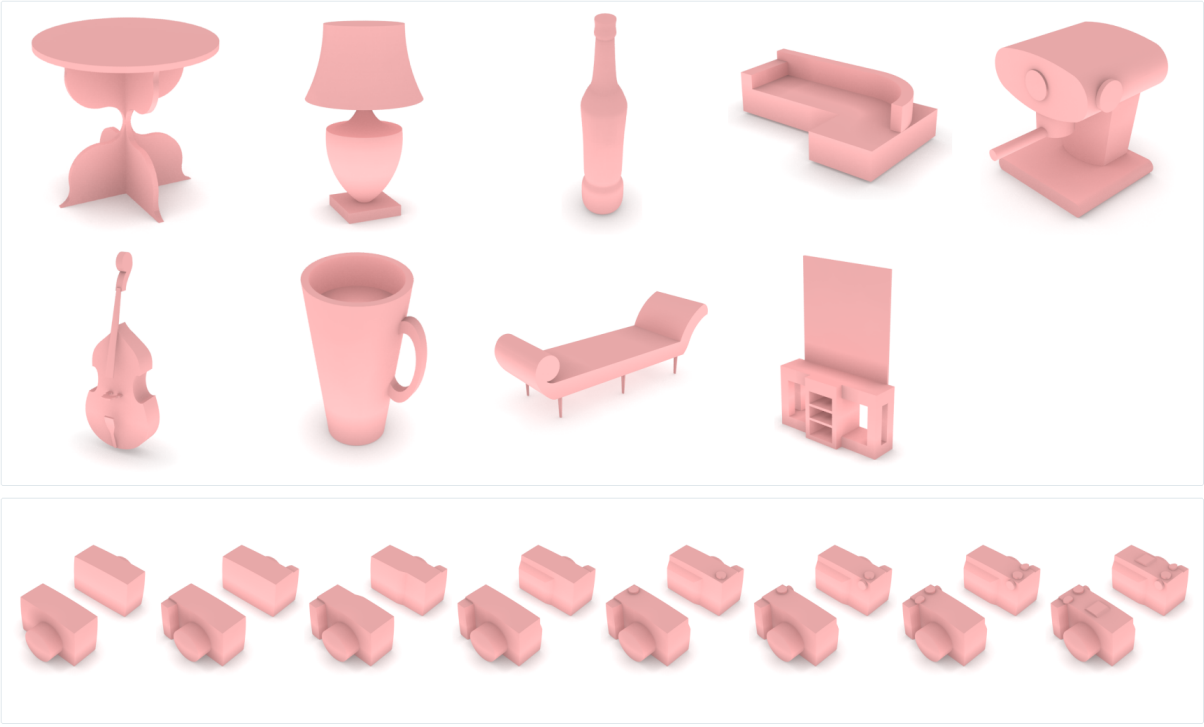

Figure A.12: Top: co-abstracted set. Bottom: missing object's spectrum. (Corresponding to Figure 13f of the paper)