

# **Supplementary Document for “Magic Decorator: Automatic Material Suggestion for Indoor Digital Scenes”**

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This document presents user study materials for the paper titled “Magic Decorator: Automatic Material Suggestion for Indoor Digital Scenes”. In the user study, participants were asked to rate each rendered image between 0 (worst) and 5 (best), indicating the degree of visual quality. Section 1 gives all images used in the user studies. Section 2 gives statistics (average score, confidence intervals and t-test) of the user study results. Section 3 provides the original ratings given by all participants. Section 4 provides detailed material configurations of main objects present in each result.

# 1 User Study Materials



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4



(f) Our Decoration 5



(g) Artist Decoration

Figure 1: Scene 1



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4



(f) Our Decoration 5



(g) Artist Decoration

Figure 2: Scene 2



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4

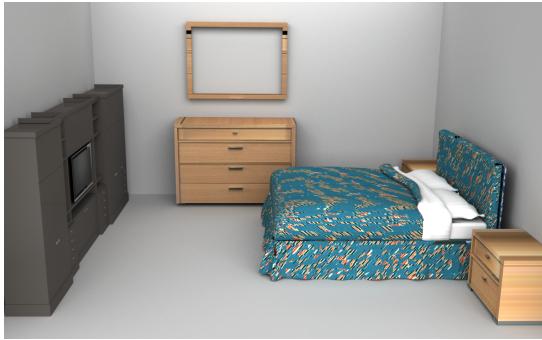


(f) Our Decoration 5



(g) Artist Decoration

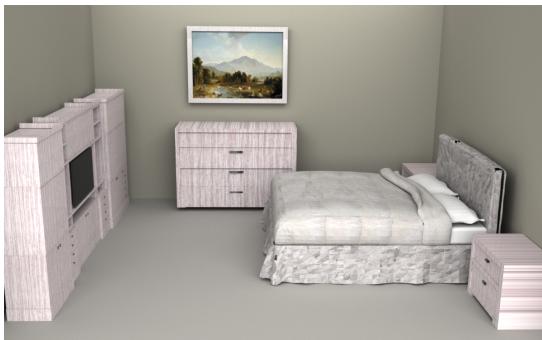
Figure 3: Scene 3



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4

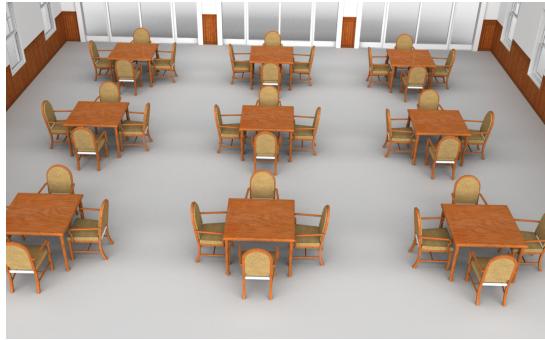


(f) Our Decoration 5



(g) Artist Decoration

Figure 4: Scene 4



(a) Initial Decoration



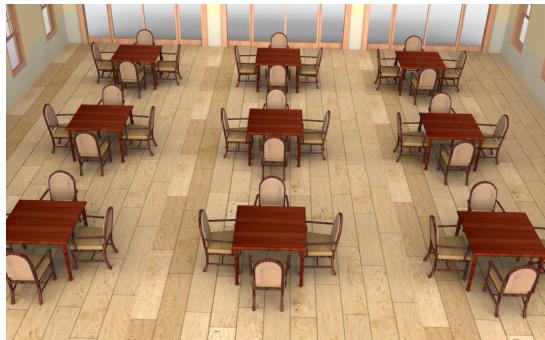
(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4



(f) Our Decoration 5



(g) Artist Decoration

Figure 5: Scene 5



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4



(f) Our Decoration 5



(g) Artist Decoration

Figure 6: Scene 6



(a) Initial Decoration



(b) Our Decoration 1



(c) Our Decoration 2



(d) Our Decoration 3



(e) Our Decoration 4



(f) Our Decoration 5



(g) Artist Decoration

Figure 7: Scene 7

## 2 Statistical Analysis

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(b)-(f)
scene 1	mean	1.77	3.63	3.03	3.77	3.03	3.63	3.70	3.42
	CI, lower bound	1.44	3.31	2.72	3.54	2.77	3.31	3.36	3.29
	CI, upper bound	2.09	3.95	3.34	3.99	3.30	3.95	4.04	3.55
scene 2	mean	1.27	3.57	2.73	3.50	3.17	3.53	3.60	3.30
	CI, lower bound	0.95	3.30	2.42	3.21	2.82	3.23	3.27	3.16
	CI, upper bound	1.58	3.83	3.05	3.79	3.51	3.84	3.93	3.44
scene 3	mean	1.17	3.10	3.00	2.40	3.80	3.50	3.23	3.16
	CI, lower bound	0.95	2.85	2.73	2.11	3.44	3.19	2.92	3.02
	CI, upper bound	1.38	3.35	3.27	2.69	4.16	3.81	3.55	3.30
scene 4	mean	1.60	3.70	2.70	3.43	3.50	3.27	3.83	3.32
	CI, lower bound	1.32	3.42	2.37	3.15	3.22	2.96	3.51	3.19
	CI, upper bound	1.88	3.98	3.03	3.71	3.78	3.57	4.16	3.45
scene 5	mean	1.97	3.27	3.07	3.17	3.43	3.13	3.90	3.21
	CI, lower bound	1.73	2.93	2.70	2.84	3.14	2.76	3.60	3.07
	CI, upper bound	2.20	3.60	3.43	3.49	3.72	3.50	4.20	3.36
scene 6	mean	2.30	3.50	3.67	3.73	3.50	3.60	3.70	3.60
	CI, lower bound	1.96	3.20	3.40	3.45	3.25	3.27	3.26	3.48
	CI, upper bound	2.64	3.80	3.93	4.01	3.75	3.93	4.14	3.72
scene 7	mean	1.97	3.03	3.47	3.23	3.33	3.13	3.97	3.24
	CI, lower bound	1.67	2.80	3.19	2.90	3.01	2.88	3.72	3.12
	CI, upper bound	2.27	3.27	3.75	3.57	3.65	3.39	4.22	3.36
overall	mean	1.72	3.40	3.10	3.32	3.40	3.40	3.70	3.32
	CI, lower bound	1.61	3.29	2.98	3.20	3.28	3.28	3.58	3.27
	CI, upper bound	1.83	3.51	3.21	3.44	3.51	3.52	3.83	3.37

Table 1: Average visual quality score and confidence intervals for each result.

$H_1$ : our decoration outperforms the initial by more than	p-value	$H_2$ : artist's decoration outperforms ours by no more than	p-value
75%	0.0121	10%	0.5370
76%	0.0182	11%	0.8319
77%	0.0268	12%	0.8480
78%	0.0386	13%	0.5524
79%	0.0544	14%	0.3198
80%	0.0750	15%	0.1635
81%	0.1014	16%	0.0735
82%	0.1343	17%	0.0290
83%	0.1746	18%	0.0100

Table 2: T-test results comparing our decoration results with the initial decoration and artist's decoration results. Generally, hypotheses with p-value under 0.05 are accepted.

## 3 Original Scores

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	4	3	2	3	5	4
2	1	3	4	3	3	4	4
3	1	4	4	2	5	3	3
4	1	4	2	4	3	3	5
5	2	4	1	3	3	2	4
6	1	3	4	3	3	2	5
7	2	3	4	3	3	4	5

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	3	4	3	4	4	5	5
2	2	4	4	4	4	4	5
3	2	3	2	2	3	2	4
4	1	4	2	3	2	3	4
5	2	4	3	3	3	4	5
6	3	3	4	2	3	4	3
7	1	2	3	2	3	3	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	4	4	3	3	3	4
2	2	4	2	3	2	4	4
3	1	2	2	3	4	3	3
4	1	4	2	4	3	2	3
5	2	4	2	1	3	2	3
6	1	2	3	3	3	3	4
7	3	3	3	2	5	2	3

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	0	3	1	3	4	2	2
2	0	5	3	3	5	5	2
3	0	3	2	1	3	1	2
4	1	5	1	4	4	4	4
5	0	3	1	1	3	3	4
6	1	3	5	5	2	5	0
7	4	3	3	4	2	1	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	2	3	4	4	5	5
2	2	3	3	3	3	3	3
3	1	2	2	2	4	4	3
4	1	3	2	4	3	4	4
5	2	3	2	3	4	3	4
6	4	4	4	4	4	4	5
7	2	2	3	3	3	3	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	3	4	3	3	2	4
2	2	3	3	3	3	3	3
3	1	3	3	3	3	4	3
4	2	3	3	3	4	3	4
5	3	4	3	3	4	3	4
6	2	4	3	4	4	3	4
7	3	4	4	3	4	4	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	2	3	4	4	5	2
2	0	4	1	3	1	2	1
3	0	3	3	2	4	3	1
4	0	2	2	3	3	4	1
5	2	2	3	4	5	4	2
6	1	1	3	3	4	2	5
7	3	4	3	2	4	3	3

Table 3: Participant 1-10.

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	4	3	4	3	4	4
2	1	4	2	2	3	4	3
3	1	3	3	1	4	3	3
4	2	4	3	4	3	3	2
5	1	2	3	3	3	4	2
6	2	3	4	3	2	3	4
7	2	3	4	3	2	3	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	3	3	4	3	4	3
2	2	4	3	4	2	3	5
3	1	2	3	3	2	3	3
4	2	3	3	3	3	4	3
5	3	2	2	4	3	5	3
6	3	4	4	4	4	4	5
7	2	3	4	3	4	3	2

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	3	3	3	3	4	3
2	2	3	3	4	3	4	4
3	1	3	3	2	3	5	3
4	2	4	4	4	3	5	4
5	2	4	3	4	4	3	2
6	3	4	2	3	4	4	1
7	2	4	5	3	4	4	3

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	5	4	4	1	3	1
2	4	5	4	5	4	5	5
3	3	5	4	4	5	5	5
4	3	5	4	5	5	5	5
5	3	5	5	5	5	5	5
6	4	5	5	5	5	5	5
7	4	5	4	5	4	4	5

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	3	4	4	4	4	4	5
2	0	3	2	2	3	4	5
3	1	2	2	2	3	4	4
4	2	3	1	3	3	3	4
5	1	3	3	3	2	3	3
6	4	5	4	5	4	5	5
7	3	3	3	4	3	3	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	5	3	4	2	2	5
2	1	4	1	5	2	3	4
3	1	3	3	2	4	3	4
4	2	4	3	4	5	3	5
5	2	2	4	3	5	4	3
6	3	3	4	4	3	5	4
7	1	3	2	2	3	4	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	4	3	4	3	3	2
2	2	3	3	3	4	5	3
3	1	3	2	2	3	5	4
4	2	4	2	4	3	4	3
5	2	4	3	3	4	3	5
6	1	3	4	5	4	3	4
7	2	4	5	5	4	3	4

Table 4: Participant 11-20.

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	3	5	4	4	5	4
2	1	3	3	4	4	5	5
3	2	3	4	3	2	4	4
4	2	5	5	3	4	5	5
5	2	1	2	3	4	1	4
6	3	3	5	5	5	5	5
7	2	3	5	5	5	5	3

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	3	2	5	4	3	3
2	0	5	3	4	3	3	4
3	2	4	3	1	5	4	3
4	1	5	3	4	4	3	5
5	1	3	4	4	3	2	5
6	4	5	5	4	3	5	2
7	2	3	2	3	2	2	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	4	3	4	3	3	4
2	3	2	3	4	4	3	4
3	2	3	4	3	2	3	4
4	3	4	4	3	3	2	3
5	2	3	2	3	3	2	4
6	2	2	3	4	4	3	4
7	3	3	4	4	4	4	4

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	5	4	4	4	5	4
2	1	4	4	5	2	3	4
3	2	5	4	3	5	4	3
4	2	5	4	5	4	4	4
5	2	5	4	3	4	3	4
6	3	4	4	4	4	4	3
7	2	3	4	4	4	3	5

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	4	2	3	3	3	3	2
2	0	2	0	2	2	2	3
3	0	4	3	2	5	2	2
4	1	4	2	4	4	5	3
5	3	5	5	5	5	4	5
6	4	4	4	3	3	3	4
7	1	2	3	3	3	3	3

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	3	2	2	3	2	4	3
2	1	3	2	2	2	2	2
3	1	3	2	2	1	3	3
4	4	3	3	2	3	3	4
5	3	2	2	3	4	3	4
6	1	3	3	3	3	3	2
7	2	2	3	2	3	3	3

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	3	2	1	3	2	4	5
2	1	3	2	3	4	2	2
3	2	4	2	1	5	3	5
4	2	4	2	5	4	2	2
5	1	4	2	1	2	1	3
6	1	3	2	4	2	2	2
7	2	3	3	4	3	3	5

scene	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	2	4	5	5	4	3	4
2	1	4	3	5	4	3	5
3	1	3	4	2	4	3	4
4	2	5	3	3	4	3	3
5	2	2	3	4	4	5	5
6	1	4	3	2	3	5	3
7	1	4	5	5	4	3	3

Table 5: Participant 21-30.

## 4 Material Configuration

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.528, 0.411, 0.301	0.125	0.088	Yes	window,dining-chair
floor	0.872, 0.648, 0.367	0.246	0.062	Yes	floor
metal	0.728, 0.728, 0.728	0.242	0.175	No	door
wood	0.478, 0.392, 0.325	0.035	0.113	No	door
wood	0.695, 0.643, 0.472	0.246	0.138	Yes	door
wall	0.573, 0.514, 0.333	0.023	0.025	No	wall
ceramic	0.941, 0.918, 0.890	0.379	0.138	No	vase
foliage	0.220, 0.549, 0.122	0.066	0.075	No	stem
foliage	0.729, 0.620, 0.184	0.168	0.163	No	flower
ceramic	0.722, 0.718, 0.698	0.043	0.150	No	plate
foliage	0.310, 0.490, 0.055	0.207	0.100	No	leaves
wood	0.361, 0.212, 0.169	0.125	0.088	No	dining-table
wood	0.671, 0.461, 0.311	0.125	0.163	Yes	dining-table
wood	0.929, 0.830, 0.704	0.301	0.075	Yes	tea-table
rug	0.800, 0.703, 0.508	0.191	0.050	Yes	rug
fabric	0.621, 0.417, 0.268	0.023	0.062	Yes	sofa
wood	0.782, 0.686, 0.508	0.113	0.075	Yes	sofa
fabric	0.717, 0.639, 0.480	0.051	0.025	Yes	pillow
wood	0.307, 0.234, 0.164	0.285	0.163	Yes	sofa
fabric	0.883, 0.656, 0.389	0.051	0.038	Yes	sofa
metal	0.465, 0.510, 0.553	0.258	0.188	No	microwave-oven,oven,refrigerator,sink
metal	0.537, 0.533, 0.533	0.055	0.138	No	oven,rangehood,refrigerator
marble	0.890, 0.890, 0.890	0.082	0.100	Yes	counter-top
wood	0.679, 0.504, 0.318	0.059	0.113	Yes	kitchen-cabinet
metal	0.684, 0.669, 0.665	0.383	0.125	No	faucet

Table 6: Main materials in Figure 1 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.954, 0.615, 0.324	0.203	0.113	Yes	window
floor	0.537, 0.404, 0.267	0.047	0.075	No	floor
metal	0.537, 0.533, 0.533	0.301	0.125	No	door
wood	0.952, 0.747, 0.412	0.133	0.175	Yes	door
wood	0.945, 0.822, 0.622	0.207	0.113	Yes	door
wall	0.561, 0.478, 0.365	0.203	0.050	No	wall
ceramic	0.016, 0.039, 0.082	0.344	0.175	No	vase
foliage	0.247, 0.369, 0.212	0.270	0.163	No	stem
foliage	0.549, 0.471, 0.137	0.156	0.100	No	flower
ceramic	0.608, 0.596, 0.553	0.320	0.200	No	plate
foliage	0.357, 0.561, 0.200	0.195	0.075	No	leaves
wood	0.297, 0.202, 0.110	0.316	0.150	Yes	dining-chair
wood	0.522, 0.212, 0.145	0.023	0.075	Yes	dining-table
wood	0.622, 0.342, 0.158	0.098	0.113	Yes	dining-table
wood	0.525, 0.293, 0.158	0.172	0.163	Yes	tea-table
rug	0.518, 0.439, 0.355	0.113	0.050	Yes	rug
fabric	0.662, 0.543, 0.348	0.070	0.038	Yes	sofa
wood	0.341, 0.215, 0.165	0.176	0.062	Yes	sofa
fabric	0.418, 0.345, 0.179	0.012	0.000	Yes	pillow
metal	0.910, 0.910, 0.910	0.223	0.125	No	sofa
leather	0.632, 0.577, 0.482	0.133	0.113	Yes	sofa
metal	0.729, 0.729, 0.729	0.422	0.188	No	microwave-oven,oven
metal	0.682, 0.671, 0.659	0.281	0.175	No	oven,rangehood,refrigerator
marble	0.901, 0.843, 0.766	0.352	0.125	Yes	counter-top
wood	0.902, 0.777, 0.587	0.215	0.100	Yes	kitchen-cabinet
metal	0.465, 0.510, 0.553	0.262	0.125	No	faucet,sink
metal	0.522, 0.522, 0.522	0.352	0.175	No	refrigerator

Table 7: Main materials in Figure 1 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.722, 0.611, 0.415	0.270	0.088	Yes	window
floor	0.837, 0.692, 0.430	0.035	0.062	Yes	floor
metal	0.753, 0.753, 0.753	0.074	0.138	No	door
wood	0.259, 0.169, 0.024	0.121	0.100	No	door
wood	0.331, 0.141, 0.070	0.117	0.175	Yes	door
wall	0.769, 0.757, 0.576	0.168	0.038	No	wall
ceramic	0.035, 0.035, 0.059	0.125	0.163	No	vase
foliage	0.204, 0.278, 0.071	0.254	0.138	No	leaves
foliage	0.420, 0.102, 0.184	0.234	0.125	No	flower
foliage	0.071, 0.125, 0.000	0.199	0.088	No	stem
ceramic	0.933, 0.682, 0.306	0.363	0.163	No	vase
foliage	0.161, 0.239, 0.137	0.094	0.175	No	leaves
ceramic	0.722, 0.718, 0.698	0.328	0.150	No	plate
wood	0.705, 0.620, 0.404	0.227	0.163	Yes	dining-chair
wood	0.320, 0.095, 0.022	0.188	0.050	Yes	dining-table
wood	0.427, 0.269, 0.183	0.316	0.125	Yes	sofa,tea-table
rug	0.844, 0.822, 0.779	0.031	0.050	Yes	rug
fabric	0.631, 0.556, 0.423	0.035	0.025	Yes	sofa
fabric	0.686, 0.673, 0.665	0.082	0.038	Yes	pillow
wood	0.337, 0.289, 0.230	0.211	0.113	Yes	sofa
fabric	0.758, 0.661, 0.521	0.176	0.000	Yes	sofa
metal	0.463, 0.475, 0.494	0.477	0.163	No	microwave-oven,oven,rangehood
metal	0.463, 0.475, 0.494	0.500	0.125	No	refrigerator
metal	0.728, 0.728, 0.728	0.340	0.150	No	oven,refrigerator
marble	0.795, 0.709, 0.575	0.293	0.075	Yes	counter-top
wood	0.546, 0.301, 0.173	0.113	0.100	Yes	kitchen-cabinet
metal	0.464, 0.512, 0.550	0.152	0.175	No	faucet,sink

Table 8: Main materials in Figure 1 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.960, 0.912, 0.829	0.031	0.050	Yes	window
floor	0.872, 0.648, 0.367	0.094	0.050	Yes	floor
metal	0.510, 0.510, 0.510	0.227	0.175	No	door
wood	0.748, 0.419, 0.209	0.051	0.150	Yes	door
wood	0.671, 0.461, 0.311	0.188	0.075	Yes	door
wall	0.859, 0.824, 0.769	0.348	0.000	No	wall
ceramic	0.769, 0.769, 0.769	0.129	0.150	No	vase
foliage	0.282, 0.439, 0.231	0.301	0.138	No	leaves
foliage	0.549, 0.471, 0.137	0.051	0.088	No	flower
foliage	0.027, 0.043, 0.016	0.086	0.163	No	stem
ceramic	0.161, 0.161, 0.149	0.176	0.125	No	vase
ceramic	0.941, 0.918, 0.890	0.328	0.200	No	plate
wood	0.712, 0.651, 0.547	0.234	0.125	Yes	dining-chair
wood	0.639, 0.463, 0.384	0.117	0.150	No	dining-table
wood	0.723, 0.610, 0.415	0.141	0.100	Yes	dining-table
wood	0.364, 0.149, 0.022	0.309	0.163	Yes	tea-table
rug	0.479, 0.366, 0.250	0.207	0.013	Yes	rug
fabric	0.418, 0.345, 0.179	0.285	0.025	Yes	sofa
wood	0.960, 0.804, 0.618	0.094	0.075	Yes	sofa
fabric	0.864, 0.924, 0.940	0.004	0.025	Yes	pillow
metal	0.749, 0.749, 0.749	0.488	0.188	No	sofa
fabric	0.537, 0.533, 0.533	0.172	0.025	No	sofa
metal	0.523, 0.523, 0.523	0.336	0.163	No	faucet
metal	0.465, 0.510, 0.553	0.148	0.163	No	microwave-oven,refrigerator
metal	0.728, 0.728, 0.728	0.172	0.175	No	oven,rangehood
metal	0.463, 0.475, 0.494	0.188	0.188	No	oven,sink
marble	0.794, 0.779, 0.782	0.410	0.125	Yes	counter-top
wood	0.782, 0.686, 0.508	0.066	0.175	Yes	kitchen-cabinet

Table 9: Main materials in Figure 1 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.719, 0.482, 0.179	0.230	0.150	Yes	window
floor	0.762, 0.646, 0.482	0.227	0.075	Yes	floor
metal	0.420, 0.420, 0.420	0.395	0.150	No	door
wood	0.651, 0.412, 0.318	0.285	0.062	No	door
wood	0.832, 0.616, 0.416	0.020	0.150	Yes	door
wall	0.844, 0.742, 0.613	0.105	0.038	Yes	wall
ceramic	0.463, 0.337, 0.133	0.273	0.175	No	vase
foliage	0.420, 0.580, 0.137	0.176	0.175	No	leaves
foliage	0.420, 0.102, 0.184	0.375	0.088	No	flower
foliage	0.333, 0.522, 0.188	0.273	0.138	No	stem
ceramic	0.314, 0.314, 0.298	0.086	0.188	No	vase
ceramic	0.941, 0.918, 0.890	0.121	0.188	No	plate
wood	0.339, 0.134, 0.072	0.234	0.088	Yes	dining-chair
wood	0.327, 0.102, 0.068	0.172	0.163	Yes	dining-table
wood	0.331, 0.140, 0.071	0.230	0.075	Yes	dining-table
wood	0.637, 0.408, 0.208	0.281	0.075	Yes	tea-table
rug	0.654, 0.581, 0.473	0.004	0.050	Yes	rug
fabric	0.632, 0.509, 0.341	0.027	0.013	Yes	sofa
wood	0.317, 0.112, 0.022	0.082	0.050	Yes	sofa
fabric	0.535, 0.504, 0.502	0.223	0.062	Yes	pillow
wood	0.341, 0.294, 0.235	0.242	0.125	No	sofa
fabric	0.832, 0.616, 0.416	0.023	0.050	Yes	sofa
metal	0.463, 0.514, 0.549	0.273	0.150	No	faucet,microwave-oven,oven, rangehood,refrigerator,sink
metal	0.522, 0.522, 0.522	0.254	0.150	No	microwave-oven,oven,refrigerator
marble	0.782, 0.795, 0.827	0.188	0.150	Yes	counter-top
wood	0.333, 0.216, 0.161	0.234	0.062	Yes	kitchen-cabinet

Table 10: Main materials in Figure 1 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.323, 0.389, 0.524	0.070	0.050	Yes	office-chair
metal	0.684, 0.669, 0.665	0.359	0.188	No	office-chair
fabric	0.750, 0.750, 0.750	0.355	0.062	Yes	office-chair
wood	0.637, 0.408, 0.208	0.035	0.088	Yes	window
wood	0.782, 0.686, 0.508	0.289	0.088	Yes	wall-shelf
metal	0.639, 0.608, 0.596	0.426	0.200	No	office-desk
glossy paint	0.102, 0.102, 0.102	0.367	0.150	No	monitor
wood	0.878, 0.791, 0.570	0.168	0.075	Yes	wall-shelf
wood	0.786, 0.656, 0.478	0.160	0.088	Yes	office-desk
floor	0.456, 0.299, 0.160	0.094	0.038	Yes	floor
fabric	0.510, 0.509, 0.513	0.156	0.050	Yes	bed
fabric	0.671, 0.671, 0.671	0.277	0.050	No	pillow
wood	0.758, 0.661, 0.524	0.152	0.150	Yes	bed
glossy paint	0.537, 0.533, 0.533	0.016	0.163	No	desk-lamp
glossy paint	0.728, 0.728, 0.728	0.066	0.200	Yes	desk-lamp
glossy paint	0.467, 0.473, 0.493	0.273	0.188	Yes	desk-lamp
wood	0.960, 0.804, 0.618	0.266	0.062	Yes	bed-bench
wood	0.784, 0.648, 0.460	0.367	0.125	Yes	bed-table
wood	0.810, 0.695, 0.498	0.055	0.125	Yes	bookshelf
fabric	0.523, 0.322, 0.207	0.035	0.013	Yes	towel
wall	0.741, 0.647, 0.510	0.266	0.050	No	wall

Table 11: Main materials in Figure 2 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.361, 0.358, 0.417	0.141	0.062	Yes	office-chair
metal	0.537, 0.533, 0.533	0.391	0.175	No	office-chair
fabric	0.648, 0.579, 0.450	0.098	0.000	Yes	office-chair
wood	0.853, 0.700, 0.506	0.043	0.175	Yes	window
wood	0.699, 0.672, 0.619	0.059	0.062	Yes	bed,bed-bench,bookshelf,office-desk, wall-shelf
metal	0.690, 0.659, 0.643	0.156	0.200	No	office-desk
glossy paint	0.639, 0.639, 0.639	0.109	0.188	No	monitor
wood	0.753, 0.737, 0.733	0.062	0.175	Yes	wall-shelf
floor	0.705, 0.646, 0.569	0.199	0.088	Yes	floor
fabric	0.685, 0.692, 0.649	0.004	0.050	Yes	bed
fabric	0.333, 0.331, 0.359	0.133	0.013	Yes	pillow
glossy paint	0.522, 0.522, 0.522	0.230	0.200	No	desk-lamp
glossy paint	0.729, 0.729, 0.729	0.441	0.175	No	desk-lamp
wood	0.813, 0.742, 0.645	0.184	0.138	Yes	bed-table
fabric	0.689, 0.672, 0.668	0.008	0.038	Yes	towel
wall	0.844, 0.745, 0.616	0.242	0.050	Yes	wall

Table 12: Main materials in Figure 2 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.544, 0.464, 0.240	0.023	0.050	Yes	office-chair
metal	0.728, 0.728, 0.728	0.379	0.200	No	office-chair
fabric	0.600, 0.431, 0.286	0.250	0.000	Yes	office-chair
wood	0.296, 0.197, 0.120	0.141	0.125	Yes	wall-shelf,window
wood	0.215, 0.104, 0.076	0.012	0.100	Yes	bed,bookshelf,wall-shelf
wood	0.806, 0.689, 0.567	0.055	0.175	Yes	office-desk
glossy paint	0.102, 0.102, 0.102	0.031	0.188	No	monitor
wood	0.318, 0.199, 0.136	0.020	0.075	Yes	office-desk
floor	0.813, 0.742, 0.644	0.145	0.075	Yes	floor
fabric	0.771, 0.757, 0.744	0.121	0.050	Yes	bed
fabric	0.609, 0.601, 0.603	0.160	0.038	Yes	pillow
glossy paint	0.420, 0.420, 0.380	0.262	0.200	No	desk-lamp
glossy paint	0.465, 0.510, 0.553	0.320	0.200	Yes	desk-lamp
wood	0.338, 0.288, 0.231	0.238	0.175	Yes	bed-bench
wood	0.333, 0.222, 0.175	0.035	0.062	Yes	bed-table
fabric	0.518, 0.463, 0.421	0.035	0.000	Yes	towel
wall	0.871, 0.847, 0.808	0.234	0.013	No	wall

Table 13: Main materials in Figure 2 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.659, 0.525, 0.378	0.051	0.038	Yes	office-chair
metal	0.728, 0.728, 0.728	0.500	0.138	No	office-chair
fabric	0.433, 0.210, 0.108	0.062	0.050	Yes	office-chair
wood	0.392, 0.236, 0.115	0.223	0.175	Yes	window
wood	0.307, 0.234, 0.164	0.121	0.062	Yes	bed-bench,bed-table,wall-shelf
metal	0.612, 0.612, 0.612	0.312	0.163	No	office-desk
glossy paint	0.102, 0.102, 0.102	0.035	0.175	No	monitor
wood	0.306, 0.235, 0.165	0.121	0.062	No	office-desk
floor	0.490, 0.373, 0.286	0.051	0.050	No	floor
fabric	0.638, 0.457, 0.188	0.039	0.025	Yes	bed
fabric	0.529, 0.443, 0.153	0.188	0.050	No	pillow
wood	0.333, 0.222, 0.175	0.164	0.075	Yes	bed,bookshelf
glossy paint	0.682, 0.671, 0.659	0.238	0.200	No	desk-lamp
glossy paint	0.463, 0.475, 0.494	0.348	0.150	No	desk-lamp
fabric	0.333, 0.331, 0.359	0.027	0.038	Yes	towel
wall	0.561, 0.514, 0.357	0.094	0.050	No	wall

Table 14: Main materials in Figure 2 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.533, 0.614, 0.357	0.238	0.050	Yes	office-chair
metal	0.544, 0.534, 0.537	0.277	0.188	No	office-chair
fabric	0.586, 0.418, 0.212	0.012	0.062	Yes	office-chair
wood	0.599, 0.328, 0.185	0.047	0.100	Yes	window
wood	0.695, 0.643, 0.472	0.027	0.175	Yes	wall-shelf
metal	0.620, 0.620, 0.620	0.527	0.150	No	office-desk
glossy paint	0.102, 0.102, 0.102	0.156	0.188	No	monitor
wood	0.692, 0.574, 0.457	0.129	0.100	Yes	bed,bed-bench,wall-shelf
wood	0.679, 0.578, 0.484	0.020	0.050	Yes	office-desk
floor	0.848, 0.667, 0.453	0.105	0.062	Yes	floor
fabric	0.744, 0.678, 0.583	0.129	0.025	Yes	bed
fabric	0.625, 0.577, 0.539	0.141	0.062	Yes	pillow
glossy paint	0.728, 0.728, 0.728	0.379	0.188	Yes	desk-lamp
glossy paint	0.463, 0.475, 0.494	0.270	0.163	No	desk-lamp
glossy paint	0.523, 0.523, 0.523	0.363	0.150	Yes	desk-lamp
wood	0.621, 0.584, 0.444	0.035	0.050	Yes	bed-table
wood	0.747, 0.632, 0.526	0.102	0.050	Yes	bookshlef
fabric	0.675, 0.554, 0.454	0.102	0.013	Yes	towel
wall	0.439, 0.404, 0.282	0.094	0.062	No	wall

Table 15: Main materials in Figure 2 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.321, 0.094, 0.024	0.191	0.125	Yes	tea-table
wood	0.910, 0.704, 0.478	0.219	0.088	Yes	wardrobe
wood	0.679, 0.504, 0.318	0.164	0.050	Yes	wardrobe
glossy paint	0.682, 0.671, 0.659	0.270	0.175	No	desk-lamp,floor-lamp
glossy paint	0.467, 0.473, 0.493	0.188	0.175	Yes	desk-lamp
wood	0.622, 0.459, 0.305	0.148	0.050	Yes	dresser
wood	0.883, 0.656, 0.389	0.180	0.125	Yes	bed-table,dresser
wood	0.622, 0.459, 0.305	0.137	0.062	Yes	bed
fabric	0.636, 0.506, 0.478	0.039	0.025	Yes	bed
fabric	0.485, 0.505, 0.510	0.145	0.038	Yes	bed
fabric	0.820, 0.820, 0.820	0.047	0.062	No	bed
fabric	0.636, 0.506, 0.478	0.031	0.038	Yes	pillow
fabric	0.504, 0.500, 0.520	0.145	0.025	Yes	pillow
wood	0.677, 0.379, 0.290	0.098	0.050	Yes	bed-table
glossy paint	0.465, 0.510, 0.553	0.133	0.163	Yes	floor-lamp
floor	0.695, 0.629, 0.550	0.055	0.075	Yes	floor
wall	0.690, 0.667, 0.627	0.191	0.050	No	wall
wood	0.786, 0.656, 0.478	0.188	0.125	Yes	sofa
leather	0.473, 0.337, 0.205	0.039	0.075	Yes	sofa

Table 16: Main materials in Figure 3 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.427, 0.269, 0.183	0.020	0.125	Yes	tea-table
wood	0.339, 0.134, 0.072	0.121	0.175	Yes	wardrobe
wood	0.695, 0.643, 0.472	0.082	0.150	Yes	wardrobe
glossy paint	0.523, 0.523, 0.523	0.355	0.200	Yes	desk-lamp
glossy paint	0.728, 0.728, 0.728	0.164	0.175	Yes	desk-lamp,floor-lamp
glossy paint	0.684, 0.669, 0.665	0.281	0.163	Yes	desk-lamp,floor-lamp
wood	0.712, 0.651, 0.547	0.062	0.125	Yes	dresser
wood	0.909, 0.867, 0.802	0.039	0.088	Yes	bed-table,dresser
wood	0.640, 0.464, 0.387	0.207	0.100	Yes	bed,sofa
fabric	0.525, 0.463, 0.373	0.078	0.062	Yes	bed
fabric	0.480, 0.468, 0.468	0.133	0.050	Yes	bed
fabric	0.780, 0.780, 0.780	0.066	0.025	No	bed
fabric	0.361, 0.361, 0.361	0.051	0.062	No	pillow
fabric	0.586, 0.418, 0.212	0.195	0.050	Yes	pillow
wood	0.693, 0.581, 0.494	0.336	0.125	Yes	bed-table
glossy paint	0.467, 0.473, 0.493	0.465	0.175	Yes	floor-lamp
floor	0.908, 0.859, 0.786	0.172	0.088	Yes	floor
wall	0.800, 0.776, 0.706	0.121	0.000	No	wall
leather	0.764, 0.710, 0.607	0.059	0.113	Yes	sofa

Table 17: Main materials in Figure 3 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.960, 0.911, 0.829	0.164	0.163	Yes	tea-table
wood	0.699, 0.672, 0.619	0.109	0.163	Yes	wardrobe
glossy paint	0.684, 0.669, 0.665	0.250	0.150	Yes	desk-lamp
glossy paint	0.467, 0.473, 0.493	0.113	0.175	Yes	desk-lamp
wood	0.753, 0.737, 0.733	0.168	0.075	Yes	bed-table,dresser
wood	0.693, 0.581, 0.494	0.055	0.062	Yes	bed-table,dresser
wood	0.915, 0.884, 0.830	0.191	0.062	Yes	bed
fabric	0.371, 0.573, 0.508	0.145	0.025	Yes	bed
fabric	0.769, 0.769, 0.769	0.145	0.025	No	bed
fabric	0.871, 0.871, 0.871	0.195	0.025	No	bed
fabric	0.629, 0.494, 0.332	0.012	0.050	Yes	pillow
fabric	0.648, 0.579, 0.450	0.176	0.038	Yes	pillow
glossy paint	0.522, 0.522, 0.522	0.242	0.200	No	floor-lamp
glossy paint	0.728, 0.728, 0.728	0.410	0.200	Yes	floor-lamp
glossy paint	0.537, 0.533, 0.533	0.020	0.163	No	floor-lamp
floor	0.643, 0.553, 0.435	0.344	0.038	No	floor
wall	0.867, 0.855, 0.816	0.230	0.050	No	wall
wood	0.420, 0.420, 0.420	0.262	0.113	Yes	sofa
leather	0.744, 0.678, 0.583	0.023	0.075	Yes	sofa

Table 18: Main materials in Figure 3 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.877, 0.783, 0.588	0.145	0.138	Yes	tea-table
wood	0.612, 0.366, 0.191	0.246	0.113	Yes	wardrobe
wood	0.479, 0.291, 0.177	0.219	0.100	Yes	bed,bed-table,dresser,wardrobe
glossy paint	0.728, 0.728, 0.728	0.059	0.163	Yes	desk-lamp
glossy paint	0.465, 0.510, 0.553	0.395	0.188	Yes	desk-lamp
wood	0.925, 0.698, 0.397	0.227	0.175	Yes	bed-table,dresser
fabric	0.873, 0.555, 0.392	0.105	0.013	Yes	bed
fabric	0.648, 0.579, 0.450	0.008	0.038	Yes	bed
fabric	0.741, 0.741, 0.741	0.152	0.013	No	bed
fabric	0.379, 0.414, 0.426	0.031	0.025	Yes	pillow
fabric	0.872, 0.785, 0.517	0.094	0.013	Yes	pillow
glossy paint	0.537, 0.533, 0.533	0.406	0.188	No	floor-lamp
glossy paint	0.463, 0.475, 0.494	0.156	0.150	No	floor-lamp
floor	0.538, 0.280, 0.167	0.051	0.050	Yes	floor
wall	0.844, 0.742, 0.613	0.066	0.013	Yes	wall
wood	0.853, 0.700, 0.506	0.023	0.050	Yes	sofa
leather	0.621, 0.417, 0.268	0.031	0.088	Yes	sofa

Table 19: Main materials in Figure 3 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
wood	0.318, 0.199, 0.136	0.188	0.125	Yes	tea-table
wood	0.786, 0.656, 0.478	0.031	0.062	Yes	wardrobe
wood	0.199, 0.143, 0.126	0.238	0.138	Yes	wardrobe
glossy paint	0.744, 0.678, 0.583	0.180	0.163	Yes	desk-lamp,floor-lamp
glossy paint	0.561, 0.361, 0.118	0.238	0.175	No	desk-lamp
wood	0.168, 0.079, 0.047	0.168	0.088	Yes	bed,bed-table,dresser
wood	0.782, 0.686, 0.508	0.070	0.150	Yes	bed-table,dresser
fabric	0.544, 0.519, 0.495	0.195	0.062	Yes	bed
fabric	0.744, 0.678, 0.583	0.320	0.050	Yes	bed
fabric	0.505, 0.502, 0.502	0.023	0.062	Yes	bed
fabric	0.361, 0.358, 0.417	0.125	0.000	Yes	pillow
glossy paint	0.580, 0.467, 0.353	0.051	0.175	No	floor-lamp
glossy paint	0.467, 0.473, 0.493	0.340	0.163	Yes	floor-lamp
floor	0.623, 0.528, 0.409	0.109	0.075	Yes	floor
wall	0.844, 0.745, 0.616	0.016	0.000	Yes	wall
wood	0.749, 0.670, 0.543	0.238	0.075	Yes	sofa
fabric	0.529, 0.411, 0.301	0.027	0.038	Yes	sofa

Table 20: Main materials in Figure 3 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.410, 0.272, 0.207	0.070	0.062	Yes	floor
wall	0.839, 0.686, 0.420	0.082	0.025	No	wall
glossy paint	0.102, 0.102, 0.102	0.074	0.163	No	television
wood	0.678, 0.504, 0.318	0.035	0.062	Yes	dresser
wood	0.929, 0.807, 0.544	0.164	0.175	Yes	bed-table,dresser,wardrobe
fabric	0.297, 0.203, 0.110	0.176	0.025	Yes	pillow
fabric	0.631, 0.569, 0.459	0.012	0.038	No	bed
fabric	0.638, 0.457, 0.188	0.113	0.050	Yes	bed
fabric	0.717, 0.639, 0.480	0.047	0.013	Yes	bed
wood	0.479, 0.291, 0.177	0.004	0.100	Yes	bed-table
wood	0.479, 0.291, 0.177	0.105	0.113	Yes	wardrobe
wood	0.837, 0.710, 0.592	0.121	0.163	Yes	painting-frame

Table 21: Main materials in Figure 4 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.631, 0.620, 0.596	0.086	0.050	No	floor
wall	0.894, 0.875, 0.780	0.180	0.062	No	wall
glossy paint	0.102, 0.102, 0.102	0.109	0.150	No	television
wood	0.791, 0.744, 0.752	0.055	0.113	Yes	bed-table,dresser,wardrobe
wood	0.420, 0.420, 0.420	0.047	0.125	Yes	bed-table,dresser,wardrobe
fabric	0.910, 0.910, 0.910	0.070	0.050	No	pillow
fabric	0.961, 0.961, 0.961	0.027	0.062	No	bed
fabric	0.771, 0.757, 0.744	0.031	0.013	Yes	bed
fabric	0.689, 0.672, 0.668	0.070	0.038	Yes	bed
wood	0.773, 0.758, 0.754	0.117	0.100	Yes	painting-frame

Table 22: Main materials in Figure 4 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.399, 0.276, 0.182	0.129	0.062	Yes	floor
wall	0.844, 0.742, 0.613	0.031	0.025	Yes	wall
glossy paint	0.102, 0.102, 0.102	0.215	0.150	No	television
wood	0.806, 0.689, 0.567	0.266	0.100	Yes	dresser
wood	0.351, 0.102, 0.059	0.238	0.088	Yes	bed-table,dresser,wardrobe
fabric	0.523, 0.322, 0.207	0.039	0.025	Yes	pillow
fabric	0.529, 0.411, 0.301	0.043	0.013	Yes	bed
fabric	0.526, 0.362, 0.114	0.039	0.013	Yes	bed
fabric	0.717, 0.639, 0.480	0.105	0.050	Yes	bed
wood	0.929, 0.830, 0.704	0.043	0.113	Yes	bed-table
wood	0.679, 0.578, 0.484	0.109	0.062	Yes	wardrobe
wood	0.699, 0.672, 0.619	0.047	0.175	Yes	painting-frame

Table 23: Main materials in Figure 4 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.862, 0.776, 0.641	0.023	0.025	Yes	floor
wall	0.698, 0.541, 0.322	0.121	0.050	No	wall
glossy paint	0.102, 0.102, 0.102	0.172	0.150	No	television
wood	0.496, 0.243, 0.086	0.168	0.075	Yes	bed-table,dresser
wood	0.770, 0.467, 0.225	0.148	0.088	Yes	bed-table,dresser,wardrobe
fabric	0.510, 0.509, 0.513	0.039	0.038	Yes	pillow
fabric	0.745, 0.773, 0.800	0.059	0.062	No	bed
fabric	0.518, 0.463, 0.421	0.180	0.000	Yes	bed
fabric	0.433, 0.210, 0.108	0.090	0.000	Yes	bed
wood	0.427, 0.269, 0.183	0.020	0.150	Yes	wardrobe
wood	0.617, 0.374, 0.178	0.164	0.125	Yes	painting-frame

Table 24: Main materials in Figure 4 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.908, 0.859, 0.786	0.031	0.050	Yes	floor
wall	0.820, 0.871, 0.871	0.098	0.050	No	wall
glossy paint	0.102, 0.102, 0.102	0.398	0.150	No	television
wood	0.747, 0.632, 0.526	0.406	0.175	Yes	dresser
wood	0.756, 0.455, 0.265	0.074	0.100	Yes	bed-table,dresser,wardrobe
fabric	0.371, 0.573, 0.508	0.039	0.038	Yes	pillow
fabric	0.604, 0.608, 0.612	0.273	0.062	No	bed
fabric	0.669, 0.653, 0.649	0.137	0.013	Yes	bed
fabric	0.526, 0.362, 0.114	0.055	0.050	Yes	bed
wood	0.692, 0.574, 0.457	0.051	0.062	Yes	bed-table
wood	0.764, 0.681, 0.549	0.320	0.125	Yes	wardrobe
wood	0.289, 0.151, 0.135	0.273	0.100	Yes	painting-frame

Table 25: Main materials in Figure 4 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.735, 0.508, 0.289	0.238	0.075	Yes	floor
wood	0.843, 0.734, 0.567	0.129	0.113	Yes	window
wall	0.690, 0.557, 0.314	0.145	0.000	No	wall
wall	0.404, 0.314, 0.183	0.141	0.050	Yes	wall
wood	0.786, 0.656, 0.478	0.102	0.050	Yes	window
wood	0.617, 0.374, 0.178	0.102	0.050	Yes	dining-chair
fabric	0.600, 0.431, 0.286	0.074	0.000	Yes	dining-chair
fabric	0.621, 0.417, 0.268	0.113	0.050	Yes	dining-chair
wood	0.427, 0.269, 0.183	0.027	0.075	Yes	dining-table
wood	0.481, 0.333, 0.217	0.039	0.150	Yes	dining-table

Table 26: Main materials in Figure 5 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.779, 0.625, 0.414	0.258	0.050	Yes	floor
wood	0.617, 0.374, 0.178	0.023	0.163	Yes	window
wood	0.599, 0.328, 0.185	0.039	0.113	Yes	window
wall	0.859, 0.824, 0.769	0.031	0.000	No	wall
wall	0.937, 0.933, 0.875	0.168	0.000	No	wall
wood	0.954, 0.615, 0.324	0.047	0.113	Yes	dining-chair
fabric	0.455, 0.166, 0.169	0.016	0.062	Yes	dining-chair
fabric	0.526, 0.108, 0.133	0.258	0.062	Yes	dining-chair
wood	0.650, 0.312, 0.179	0.031	0.075	Yes	dining-table

Table 27: Main materials in Figure 5 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.862, 0.776, 0.641	0.188	0.062	Yes	floor
wood	0.680, 0.474, 0.302	0.055	0.062	Yes	window
wall	0.876, 0.844, 0.808	0.012	0.013	Yes	wall
wall	0.539, 0.123, 0.117	0.078	0.038	Yes	wall
wood	0.755, 0.528, 0.337	0.137	0.175	Yes	window
wood	0.364, 0.149, 0.022	0.191	0.100	Yes	dining-chair
fabric	0.717, 0.639, 0.480	0.020	0.050	Yes	dining-chair
fabric	0.648, 0.579, 0.450	0.066	0.062	Yes	dining-chair
wood	0.853, 0.700, 0.506	0.266	0.050	Yes	dining-table
wood	0.842, 0.682, 0.500	0.176	0.100	Yes	dining-table

Table 28: Main materials in Figure 5 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.762, 0.646, 0.482	0.172	0.062	Yes	floor
wood	0.793, 0.593, 0.464	0.184	0.163	Yes	window
wall	0.925, 0.839, 0.643	0.223	0.013	No	wall
wall	0.827, 0.824, 0.745	0.031	0.025	No	wall
wood	0.289, 0.151, 0.135	0.145	0.062	Yes	dining-chair
fabric	0.662, 0.543, 0.348	0.051	0.013	Yes	dining-chair
fabric	0.675, 0.554, 0.454	0.059	0.062	Yes	dining-chair
wood	0.384, 0.124, 0.046	0.094	0.113	Yes	dining-table

Table 29: Main materials in Figure 5 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
floor	0.762, 0.646, 0.482	0.320	0.050	Yes	floor
wood	0.711, 0.644, 0.513	0.125	0.062	Yes	window
wall	0.844, 0.745, 0.616	0.156	0.013	Yes	wall
wall	0.825, 0.820, 0.744	0.102	0.000	Yes	wall
wood	0.764, 0.681, 0.549	0.188	0.138	Yes	window
wood	0.782, 0.686, 0.508	0.156	0.088	Yes	dining-chair
fabric	0.586, 0.418, 0.212	0.090	0.050	Yes	dining-chair
wood	0.867, 0.861, 0.795	0.090	0.163	Yes	dining-table
wood	0.849, 0.796, 0.706	0.086	0.113	Yes	dining-table

Table 30: Main materials in Figure 5 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.927, 0.538, 0.301	0.121	0.013	Yes	pillow
metal	0.463, 0.514, 0.549	0.352	0.175	No	oven,refrigerator,sink,tea-table
metal	0.728, 0.728, 0.728	0.184	0.175	No	refrigerator,tea-table
wood	0.632, 0.364, 0.138	0.020	0.075	Yes	sofa
leather	0.518, 0.463, 0.421	0.250	0.088	Yes	sofa
fabric	0.457, 0.457, 0.457	0.055	0.013	Yes	sofa
fabric	0.632, 0.509, 0.341	0.059	0.025	Yes	sofa
marble	0.863, 0.858, 0.680	0.293	0.125	Yes	counter-top
wood	0.168, 0.079, 0.047	0.031	0.050	Yes	kitchen-cabinet
wood	0.849, 0.796, 0.706	0.129	0.150	Yes	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.391	0.163	No	plate-rack,rangehood
metal	0.682, 0.671, 0.659	0.285	0.175	No	faucet,oven,refrigerator
wood	0.719, 0.482, 0.179	0.094	0.138	Yes	kitchen-cabinet
metal	0.471, 0.451, 0.600	0.395	0.175	No	rangehood
metal	0.753, 0.737, 0.733	0.367	0.138	No	bar-chair
wood	0.333, 0.222, 0.175	0.145	0.050	Yes	bar
foliage	0.380, 0.741, 0.102	0.199	0.113	No	stem
foliage	0.569, 0.851, 0.086	0.293	0.100	No	leaves
ceramic	0.729, 0.729, 0.729	0.344	0.200	No	vase
metal	0.537, 0.533, 0.533	0.273	0.150	No	radiator
floor	0.862, 0.776, 0.641	0.066	0.038	Yes	floor
wall	0.888, 0.888, 0.888	0.070	0.025	Yes	wall
wood	0.866, 0.760, 0.468	0.184	0.062	Yes	door
metal	0.634, 0.634, 0.634	0.406	0.175	No	door
wood	0.926, 0.557, 0.288	0.254	0.113	Yes	picture-frame
wood	0.379, 0.235, 0.166	0.098	0.150	Yes	TV-cabinet
glossy paint	0.102, 0.102, 0.102	0.449	0.163	No	television
rug	0.654, 0.581, 0.473	0.199	0.000	Yes	rug

Table 31: Main materials in Figure 7 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.712, 0.640, 0.436	0.152	0.025	Yes	pillow
metal	0.682, 0.671, 0.659	0.277	0.188	No	refrigerator,tea-table
metal	0.463, 0.514, 0.549	0.168	0.150	No	oven,refrigerator
wood	0.787, 0.674, 0.475	0.117	0.125	Yes	sofa
leather	0.544, 0.519, 0.495	0.145	0.100	Yes	sofa
fabric	0.864, 0.924, 0.940	0.059	0.062	Yes	sofa
fabric	0.625, 0.577, 0.539	0.145	0.013	Yes	sofa
marble	0.883, 0.895, 0.843	0.543	0.150	Yes	counter-top
wood	0.837, 0.710, 0.592	0.258	0.062	Yes	kitchen-cabinet
wood	0.617, 0.374, 0.178	0.270	0.113	Yes	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.609	0.163	No	faucet,plate-rack,rangehood,sink
wood	0.961, 0.553, 0.215	0.016	0.113	Yes	kitchen-cabinet
metal	0.729, 0.729, 0.729	0.371	0.125	No	oven,rangehood
metal	0.451, 0.522, 0.345	0.324	0.163	No	rangehood
metal	0.522, 0.522, 0.522	0.406	0.200	No	radiator
wood	0.568, 0.407, 0.197	0.031	0.100	Yes	bar-chair
wood	0.546, 0.301, 0.173	0.145	0.075	Yes	bar-chair
wood	0.333, 0.222, 0.175	0.270	0.150	Yes	bar
foliage	0.380, 0.569, 0.325	0.320	0.100	No	leaves,stem
ceramic	0.063, 0.012, 0.000	0.137	0.138	No	vase
floor	0.839, 0.692, 0.430	0.254	0.075	Yes	floor
wall	0.784, 0.784, 0.784	0.117	0.038	No	wall
wood	0.832, 0.616, 0.416	0.219	0.150	Yes	door
metal	0.754, 0.754, 0.754	0.074	0.188	No	door
wood	0.902, 0.777, 0.587	0.086	0.088	Yes	door
wood	0.575, 0.397, 0.181	0.230	0.113	Yes	TV-cabinet,picture-frame
glossy paint	0.102, 0.102, 0.102	0.031	0.200	No	television
rug	0.479, 0.366, 0.250	0.066	0.025	Yes	rug

Table 32: Main materials in Figure 7 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.389, 0.564, 0.590	0.184	0.013	Yes	pillow
metal	0.522, 0.522, 0.522	0.270	0.163	No	rangehood,refrigerator,sink, tea-table
metal	0.684, 0.669, 0.665	0.562	0.175	No	faucet
metal	0.773, 0.758, 0.754	0.375	0.125	No	sofa
leather	0.518, 0.459, 0.432	0.246	0.062	Yes	sofa
fabric	0.873, 0.555, 0.392	0.055	0.062	Yes	sofa
fabric	0.629, 0.494, 0.332	0.105	0.062	Yes	sofa
marble	0.612, 0.612, 0.612	0.297	0.088	No	counter-top
wood	0.695, 0.643, 0.472	0.191	0.062	Yes	kitchen-cabinet
wood	0.822, 0.813, 0.816	0.355	0.088	Yes	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.070	0.163	No	plate-rack
metal	0.537, 0.533, 0.533	0.133	0.125	No	oven
metal	0.463, 0.514, 0.549	0.352	0.188	No	oven,refrigerator
wood	0.804, 0.514, 0.367	0.148	0.163	Yes	kitchen-cabinet
metal	0.780, 0.780, 0.780	0.305	0.163	No	rangehood
metal	0.729, 0.729, 0.729	0.473	0.175	No	radiator
wood	0.843, 0.734, 0.567	0.227	0.138	Yes	bar,bar-chair
wood	0.296, 0.197, 0.120	0.094	0.088	Yes	bar-chair
foliage	0.416, 0.702, 0.329	0.055	0.113	No	stem
foliage	0.553, 0.659, 0.416	0.230	0.113	No	leaves
ceramic	0.722, 0.718, 0.698	0.309	0.188	No	vase
floor	0.699, 0.452, 0.231	0.375	0.088	Yes	floor
wall	0.404, 0.314, 0.184	0.164	0.038	No	wall
wood	0.379, 0.235, 0.166	0.117	0.062	Yes	door
metal	0.525, 0.525, 0.525	0.461	0.175	No	door
wood	0.711, 0.644, 0.513	0.004	0.138	Yes	door
wood	0.961, 0.553, 0.215	0.051	0.163	Yes	picture-frame
wood	0.706, 0.619, 0.404	0.016	0.050	Yes	TV-cabinet
glossy paint	0.102, 0.102, 0.102	0.230	0.200	No	television
rug	0.722, 0.603, 0.420	0.090	0.000	Yes	rug

Table 33: Main materials in Figure 7 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.549, 0.549, 0.549	0.031	0.038	Yes	pillow,sofa
metal	0.729, 0.729, 0.729	0.344	0.150	No	oven,tea-table
metal	0.522, 0.522, 0.522	0.133	0.200	No	refrigerator,tea-table
metal	0.333, 0.222, 0.175	0.438	0.175	No	sofa
fabric	0.453, 0.453, 0.453	0.168	0.038	Yes	sofa
fabric	0.361, 0.358, 0.417	0.012	0.062	Yes	sofa
marble	0.883, 0.895, 0.843	0.227	0.138	Yes	counter-top
wood	0.173, 0.027, 0.027	0.109	0.150	No	kitchen-cabinet
wood	0.833, 0.790, 0.707	0.207	0.088	Yes	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.180	0.125	No	oven,plate-rack,refrigerator,sink
metal	0.537, 0.533, 0.533	0.121	0.138	No	faucet
metal	0.682, 0.671, 0.659	0.219	0.138	No	refrigerator
metal	0.463, 0.514, 0.549	0.277	0.150	No	oven,radiator,rangehood
wood	0.479, 0.225, 0.134	0.059	0.163	Yes	kitchen-cabinet
metal	0.451, 0.522, 0.345	0.191	0.200	No	rangehood
wood	0.494, 0.213, 0.057	0.285	0.150	Yes	bar-chair
wood	0.321, 0.094, 0.024	0.352	0.150	Yes	bar-chair
wood	0.867, 0.861, 0.795	0.203	0.050	Yes	bar
foliage	0.306, 0.710, 0.439	0.129	0.075	No	stem
foliage	0.306, 0.710, 0.439	0.250	0.138	No	leaves
ceramic	0.608, 0.596, 0.553	0.082	0.125	No	vase
floor	0.869, 0.850, 0.781	0.262	0.088	Yes	floor
wall	0.844, 0.745, 0.616	0.238	0.000	Yes	wall
wood	0.539, 0.250, 0.090	0.352	0.062	Yes	door
metal	0.639, 0.651, 0.686	0.172	0.188	No	door
wood	0.427, 0.269, 0.183	0.289	0.113	Yes	door
wood	0.787, 0.674, 0.475	0.082	0.062	Yes	picture-frame
wood	0.824, 0.637, 0.388	0.215	0.100	Yes	TV-cabinet
glossy paint	0.102, 0.102, 0.102	0.355	0.163	No	television
rug	0.675, 0.548, 0.474	0.059	0.025	Yes	rug

Table 34: Main materials in Figure 7 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
fabric	0.611, 0.576, 0.546	0.109	0.025	Yes	pillow
metal	0.728, 0.728, 0.728	0.582	0.188	No	oven,tea-table
metal	0.463, 0.514, 0.549	0.391	0.175	No	faucet,refrigerator,tea-table
wood	0.890, 0.775, 0.580	0.094	0.100	Yes	sofa
leather	0.761, 0.663, 0.478	0.016	0.100	No	sofa
fabric	0.569, 0.380, 0.396	0.039	0.038	No	sofa
fabric	0.586, 0.418, 0.212	0.129	0.038	Yes	sofa
marble	0.837, 0.793, 0.703	0.305	0.100	Yes	counter-top
wood	0.753, 0.737, 0.733	0.184	0.113	Yes	kitchen-cabinet
wood	0.929, 0.807, 0.544	0.094	0.150	Yes	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.332	0.150	No	oven,plate-rack,rangehood, refrigerator
metal	0.537, 0.533, 0.533	0.254	0.163	No	radiator,refrigerator,sink
wood	0.755, 0.528, 0.337	0.070	0.100	Yes	bar-chair,kitchen-cabinet
metal	0.404, 0.314, 0.184	0.133	0.175	No	rangehood
metal	0.684, 0.669, 0.665	0.297	0.138	No	oven
metal	0.941, 1.000, 1.000	0.398	0.163	No	door
wood	0.938, 0.702, 0.402	0.305	0.125	Yes	bar-chair
wood	0.909, 0.867, 0.802	0.211	0.125	Yes	bar
foliage	0.349, 0.541, 0.098	0.281	0.150	No	leaves,stem
ceramic	0.271, 0.243, 0.192	0.266	0.163	No	vase
floor	0.908, 0.859, 0.786	0.078	0.025	Yes	floor
wall	0.844, 0.745, 0.616	0.020	0.000	Yes	wall
wood	0.539, 0.250, 0.090	0.117	0.050	Yes	door
wood	0.929, 0.830, 0.704	0.035	0.062	Yes	door
wood	0.721, 0.699, 0.683	0.125	0.088	Yes	TV-cabinet,picture-frame
glossy paint	0.102, 0.102, 0.102	0.293	0.188	No	television
rug	0.844, 0.822, 0.781	0.184	0.050	Yes	rug

Table 35: Main materials in Figure 7 (f)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
metal	0.788, 0.745, 0.749	0.195	0.125	No	kitchen-cabinet
metal	0.463, 0.475, 0.494	0.363	0.175	No	cutlery,tea-table
metal	0.537, 0.533, 0.533	0.367	0.125	No	oven,tea-table
metal	0.728, 0.728, 0.728	0.352	0.150	No	oven
metal	0.522, 0.522, 0.522	0.410	0.163	No	gas-stove
wood	0.379, 0.235, 0.166	0.039	0.088	Yes	kitchen-cabinet
marble	0.838, 0.756, 0.624	0.336	0.138	Yes	counter-top
metal	0.682, 0.671, 0.659	0.379	0.175	No	sink
metal	0.463, 0.514, 0.549	0.324	0.163	No	refrigerator
wood	0.680, 0.474, 0.302	0.035	0.138	Yes	dining-table
wood	0.793, 0.593, 0.464	0.082	0.100	Yes	dining-table
fabric	0.528, 0.411, 0.301	0.168	0.062	Yes	dining-chair,sofa
fabric	0.648, 0.579, 0.450	0.027	0.013	Yes	dining-chair
wood	0.622, 0.342, 0.158	0.184	0.088	Yes	dining-chair
ceramic	0.839, 0.831, 0.808	0.207	0.150	No	plate
foliage	0.424, 0.620, 0.373	0.172	0.138	No	leaves,stem
ceramic	0.761, 0.788, 0.694	0.156	0.138	No	vase
foliage	0.651, 0.000, 0.043	0.148	0.075	No	flower
glossy paint	0.102, 0.102, 0.102	0.129	0.175	No	television
wood	0.902, 0.777, 0.587	0.074	0.125	Yes	TV-cabinet
wood	0.929, 0.830, 0.704	0.055	0.125	Yes	TV-cabinet
wood	0.810, 0.695, 0.498	0.148	0.175	Yes	door
wood	0.877, 0.783, 0.588	0.297	0.150	Yes	door
metal	0.486, 0.494, 0.502	0.379	0.175	No	door
wall	0.616, 0.620, 0.514	0.176	0.050	No	wall
floor	0.490, 0.373, 0.286	0.133	0.075	No	floor
wood	0.758, 0.661, 0.524	0.238	0.125	Yes	picture-frame
ceramic	0.149, 0.090, 0.020	0.125	0.163	No	vase
foliage	0.447, 0.612, 0.165	0.301	0.113	No	leaves
ceramic	0.000, 0.000, 0.000	0.137	0.175	No	vase
wood	0.749, 0.472, 0.296	0.016	0.100	Yes	sofa
fabric	0.799, 0.781, 0.775	0.035	0.025	Yes	sofa
rug	0.654, 0.581, 0.473	0.027	0.000	Yes	rug
fabric	0.544, 0.519, 0.495	0.043	0.038	Yes	pillow
fabric	0.685, 0.692, 0.649	0.184	0.013	Yes	pillow
fabric	0.662, 0.590, 0.513	0.262	0.050	Yes	pillow

Table 36: Main materials in Figure 8 (b)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
metal	0.459, 0.459, 0.459	0.270	0.163	No	kitchen-cabinet
metal	0.522, 0.522, 0.522	0.270	0.200	No	gas-stove,oven,tea-table
metal	0.537, 0.533, 0.533	0.359	0.175	No	oven,refrigerator,tea-table
metal	0.463, 0.514, 0.549	0.520	0.150	No	gas-stove,refrigerator
wood	0.333, 0.216, 0.161	0.066	0.050	Yes	kitchen-cabinet
marble	0.896, 0.899, 0.900	0.094	0.138	Yes	counter-top
metal	0.728, 0.728, 0.728	0.363	0.138	No	sink
metal	0.463, 0.475, 0.494	0.508	0.163	No	cutlery,tea-table
ceramic	0.839, 0.824, 0.765	0.184	0.163	No	plate,vase
wood	0.517, 0.332, 0.240	0.211	0.138	Yes	dining-table
wood	0.556, 0.445, 0.314	0.062	0.125	Yes	dining-table
fabric	0.667, 0.652, 0.664	0.137	0.000	Yes	dining-chair
wood	0.843, 0.734, 0.567	0.004	0.075	Yes	dining-chair
ceramic	0.941, 0.918, 0.890	0.129	0.138	No	plate
foliage	0.376, 0.561, 0.318	0.125	0.075	No	leaves,stem
ceramic	0.820, 0.671, 0.392	0.051	0.138	No	vase
foliage	0.600, 0.337, 0.490	0.105	0.125	No	flower
glossy paint	0.102, 0.102, 0.102	0.230	0.200	No	television
wood	0.712, 0.651, 0.547	0.168	0.062	Yes	TV-cabinet
wood	0.481, 0.333, 0.217	0.145	0.163	Yes	TV-cabinet
wood	0.842, 0.682, 0.500	0.148	0.138	Yes	door
wood	0.875, 0.772, 0.713	0.219	0.175	Yes	door
metal	0.753, 0.753, 0.753	0.266	0.188	No	door
wall	0.888, 0.888, 0.888	0.051	0.050	Yes	wall
floor	0.908, 0.859, 0.786	0.203	0.050	Yes	floor
wood	0.612, 0.366, 0.191	0.309	0.150	Yes	picture-frame
ceramic	0.031, 0.098, 0.165	0.309	0.125	No	vase
foliage	0.302, 0.412, 0.110	0.461	0.175	No	leaves
wood	0.706, 0.619, 0.404	0.367	0.175	Yes	sofa
fabric	0.540, 0.453, 0.333	0.094	0.050	Yes	sofa
rug	0.703, 0.560, 0.436	0.105	0.038	Yes	rug
fabric	0.717, 0.639, 0.480	0.094	0.013	Yes	pillow
fabric	0.431, 0.302, 0.367	0.113	0.038	Yes	pillow
fabric	0.389, 0.564, 0.590	0.117	0.062	Yes	pillow
fabric	0.632, 0.509, 0.341	0.062	0.062	Yes	sofa

Table 37: Main materials in Figure 8 (c)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
metal	0.753, 0.753, 0.753	0.469	0.200	No	kitchen-cabinet
metal	0.537, 0.533, 0.533	0.258	0.125	No	gas-stove,tea-table
metal	0.463, 0.514, 0.549	0.332	0.125	No	oven,refrigerator,sink
metal	0.682, 0.671, 0.659	0.449	0.125	No	gas-stove,oven,refrigerator
wood	0.806, 0.689, 0.567	0.047	0.075	Yes	kitchen-cabinet
marble	0.343, 0.342, 0.335	0.379	0.125	Yes	counter-top
metal	0.463, 0.475, 0.494	0.281	0.175	No	cutlery
wood	0.832, 0.616, 0.416	0.340	0.088	Yes	dining-table
fabric	0.712, 0.640, 0.436	0.078	0.050	Yes	dining-chair
fabric	0.631, 0.556, 0.423	0.098	0.025	Yes	dining-chair
wood	0.679, 0.504, 0.318	0.246	0.050	Yes	dining-chair
ceramic	0.608, 0.596, 0.553	0.309	0.200	No	plate
foliage	0.404, 0.639, 0.224	0.137	0.138	No	stem
ceramic	0.059, 0.055, 0.043	0.348	0.138	No	vase
foliage	0.459, 0.000, 0.031	0.086	0.138	No	flower
glossy paint	0.102, 0.102, 0.102	0.102	0.200	No	television
wood	0.954, 0.615, 0.324	0.062	0.125	Yes	TV-cabinet
wood	0.317, 0.112, 0.022	0.152	0.125	Yes	TV-cabinet
wood	0.522, 0.212, 0.145	0.180	0.150	Yes	door
wood	0.327, 0.102, 0.068	0.023	0.163	Yes	door
metal	0.525, 0.525, 0.525	0.246	0.200	No	door
wall	0.890, 0.890, 0.890	0.184	0.038	No	wall
floor	0.839, 0.692, 0.430	0.070	0.025	Yes	floor
wood	0.609, 0.309, 0.164	0.137	0.175	Yes	picture-frame
ceramic	0.063, 0.012, 0.000	0.227	0.163	No	vase
foliage	0.192, 0.259, 0.071	0.250	0.088	No	leaves
foliage	0.231, 0.412, 0.000	0.242	0.150	No	leaves
ceramic	0.016, 0.039, 0.082	0.160	0.163	No	vase
ceramic	0.110, 0.129, 0.149	0.223	0.138	No	vase
wood	0.379, 0.235, 0.166	0.102	0.075	Yes	sofa
fabric	0.864, 0.924, 0.940	0.039	0.038	Yes	sofa
metal	0.729, 0.729, 0.729	0.102	0.175	No	tea-table
rug	0.569, 0.531, 0.463	0.008	0.038	Yes	rug
fabric	0.812, 0.321, 0.139	0.031	0.062	Yes	pillow
fabric	0.380, 0.018, 0.011	0.012	0.050	Yes	pillow
fabric	0.418, 0.345, 0.179	0.215	0.025	Yes	pillow
fabric	0.529, 0.411, 0.301	0.059	0.025	Yes	sofa

Table 38: Main materials in Figure 8 (d)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
metal	0.388, 0.388, 0.388	0.215	0.150	No	kitchen-cabinet
metal	0.463, 0.514, 0.549	0.410	0.150	No	oven,tea-table
metal	0.729, 0.729, 0.729	0.234	0.125	No	oven
metal	0.522, 0.522, 0.522	0.172	0.175	No	gas-stove,oven
metal	0.682, 0.671, 0.659	0.371	0.200	No	gas-stove,refrigerator,tea-table
wood	0.799, 0.584, 0.347	0.043	0.050	Yes	kitchen-cabinet
marble	0.823, 0.737, 0.623	0.246	0.150	Yes	counter-top
metal	0.537, 0.533, 0.533	0.223	0.175	No	refrigerator,sink
metal	0.463, 0.475, 0.494	0.223	0.163	No	cutlery,tea-table
ceramic	0.631, 0.624, 0.604	0.074	0.163	No	plate
wood	0.632, 0.364, 0.138	0.051	0.163	Yes	dining-table
wood	0.599, 0.328, 0.185	0.043	0.163	Yes	dining-table
fabric	0.667, 0.652, 0.664	0.105	0.038	Yes	dining-chair
wood	0.307, 0.234, 0.164	0.195	0.113	Yes	dining-chair
ceramic	0.608, 0.596, 0.553	0.125	0.150	No	plate
foliage	0.294, 0.522, 0.000	0.074	0.125	No	stem
ceramic	0.349, 0.271, 0.263	0.227	0.138	No	vase
foliage	0.929, 0.824, 0.008	0.344	0.088	No	flower
glossy paint	0.102, 0.102, 0.102	0.059	0.175	No	television
wood	0.784, 0.648, 0.460	0.250	0.062	Yes	TV-cabinet,picture-frame
wood	0.711, 0.644, 0.513	0.062	0.163	Yes	TV-cabinet
wood	0.856, 0.664, 0.440	0.086	0.100	Yes	door
wood	0.749, 0.670, 0.543	0.391	0.050	Yes	door
metal	0.639, 0.639, 0.639	0.160	0.150	No	door
wall	0.678, 0.655, 0.584	0.098	0.000	No	wall
floor	0.869, 0.850, 0.781	0.074	0.025	Yes	floor
ceramic	0.941, 0.918, 0.890	0.109	0.150	No	vase
foliage	0.376, 0.651, 0.169	0.152	0.175	No	leaves
foliage	0.439, 0.620, 0.129	0.137	0.113	No	leaves
ceramic	0.902, 0.902, 0.902	0.289	0.163	No	vase
wood	0.321, 0.094, 0.024	0.117	0.100	Yes	sofa
fabric	0.592, 0.596, 0.600	0.074	0.025	No	sofa
rug	0.705, 0.646, 0.569	0.266	0.038	Yes	rug
fabric	0.629, 0.494, 0.332	0.082	0.013	Yes	pillow
fabric	0.544, 0.519, 0.495	0.004	0.038	Yes	pillow
fabric	0.661, 0.511, 0.195	0.109	0.013	Yes	pillow
fabric	0.799, 0.781, 0.775	0.031	0.062	Yes	sofa

Table 39: Main materials in Figure 8 (e)

Material Type	Diffuse	Specular	Glossiness	Texture	Objects
metal	0.341, 0.298, 0.298	0.059	0.150	No	kitchen-cabinet
metal	0.463, 0.514, 0.549	0.305	0.138	No	oven,refrigerator
metal	0.522, 0.522, 0.522	0.301	0.175	No	oven,sink
metal	0.463, 0.475, 0.494	0.305	0.163	No	cutlery,gas-stove,oven,tea-table
metal	0.729, 0.729, 0.729	0.383	0.200	No	gas-stove
wood	0.902, 0.777, 0.587	0.090	0.113	Yes	kitchen-cabinet
marble	0.659, 0.658, 0.655	0.555	0.138	Yes	counter-top
metal	0.544, 0.534, 0.537	0.332	0.175	No	refrigerator
wood	0.747, 0.632, 0.526	0.094	0.088	Yes	dining-table
wood	0.695, 0.643, 0.472	0.082	0.075	Yes	dining-table
fabric	0.756, 0.666, 0.500	0.152	0.038	Yes	dining-chair
fabric	0.822, 0.762, 0.589	0.223	0.062	Yes	dining-chair
wood	0.210, 0.193, 0.175	0.070	0.050	Yes	dining-chair
ceramic	0.608, 0.596, 0.553	0.129	0.163	No	plate
foliage	0.486, 0.761, 0.275	0.281	0.075	No	leaves,stem
ceramic	0.161, 0.161, 0.149	0.188	0.200	No	vase
foliage	0.733, 0.090, 0.424	0.305	0.088	No	flower
glossy paint	0.102, 0.102, 0.102	0.262	0.188	No	television
wood	0.306, 0.235, 0.165	0.340	0.100	No	TV-cabinet
wood	0.632, 0.364, 0.138	0.086	0.125	Yes	TV-cabinet
wood	0.575, 0.397, 0.181	0.062	0.113	Yes	door
wood	0.711, 0.644, 0.513	0.242	0.150	Yes	door
metal	0.667, 0.678, 0.702	0.277	0.163	No	door
wall	0.890, 0.890, 0.890	0.168	0.000	No	wall
floor	0.620, 0.620, 0.612	0.180	0.038	Yes	floor
wood	0.289, 0.151, 0.135	0.043	0.088	Yes	picture-frame
ceramic	0.933, 0.682, 0.306	0.180	0.175	No	vase
foliage	0.271, 0.478, 0.000	0.223	0.163	No	leaves
ceramic	0.941, 0.918, 0.890	0.152	0.125	No	vase
ceramic	0.035, 0.212, 0.000	0.371	0.188	No	vase
wood	0.902, 0.777, 0.587	0.215	0.100	Yes	sofa
fabric	0.744, 0.678, 0.583	0.066	0.013	Yes	sofa
rug	0.558, 0.479, 0.408	0.027	0.025	Yes	rug
fabric	0.527, 0.530, 0.555	0.258	0.013	Yes	pillow
fabric	0.529, 0.373, 0.380	0.070	0.013	No	pillow
fabric	0.439, 0.251, 0.251	0.102	0.062	No	pillow
fabric	0.528, 0.411, 0.301	0.082	0.062	Yes	sofa

Table 40: Main materials in Figure 8 (f)