CMT 209 Informatics Coursework 2017 - Abstract Scenes Data

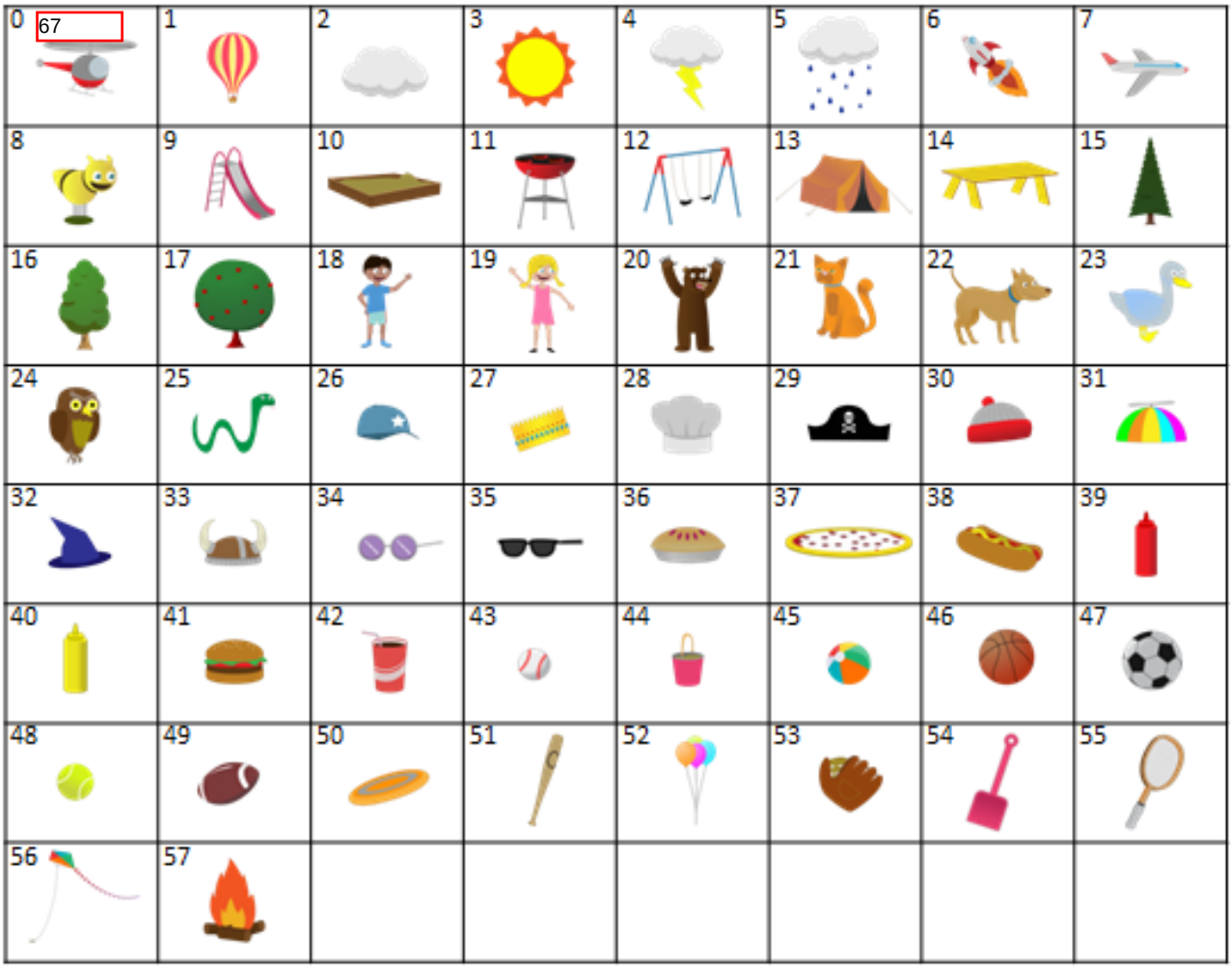
The data used for this coursework has been adapted from the "abstract scenes" dataset by Zitnick et al.[1]

The original dataset has been constructed through crowdsourcing as follows
1. A first set of users created images of children playing outdoors from a predefined set of clipart objects (see below).
2. A second set of users created a 1-2 sentence description of each image.
3. A third set of users created images from each of the descriptions (ten per description).

The images we use here are from the third step. Images are named SceneX_Y, where X is the number of the description the image has been generated from, and Y is the image identifier within that class.

Image Tags

File image_tags.csv provides the tags of all images, where the first column identifies the image and the remaining 58 columns contain 1 if the column's object is in the image and 0 otherwise. The 58 clipart pieces are



[1] C. L. Zitnick, and D. Parikh, Bringing Semantics Into Focus Using Visual Abstraction, In CVPR, 2013.

and the corresponding standard tags are

0	helicopter
1	hotairballoon
2	cloud
3	sun
4	lightning
5	rain
6	rocket
7	airplane
8	bouncy
9	slide
10	sandbox
11	grill
12	swing
13	tent
14	table
15	pinetree
16	oaktree
17	appletree
18	boy
19	girl
20	bear
21	cat
22	dog
23	duck
24	owl
25	snake
26	baseballcap
27	crown
28	chefhat
29	piratehat
30	wintercap
31	bennie
32	wizardhat
33	vikinghat
34	purpleglasses
35	sunglasses
36	pie
37	pizza
38	hotdog
39	ketchup
40	mustard
41	hamburger
42	soda
43	baseball
44	pail
45	beachball
46	basketball
47	soccerball
48	tennisball
49	football

50 frisbee
51 baseballbat
52 balloons
53 baseballglove
54 shovel
55 tennisracket
56 kite
57 fire

Spatial Information

The file boy_hand.csv provides for each image a list of objects and their closeness to the boy's hands. Closeness is a number between 0 and 1, with 1 being the closest. Objects with closeness 0 are omitted from the file. The columns are: Scene Identifier, Object, Closeness.
Files boy_head.csv, girl_hand.csv and girl_head.csv provide the same information with respect to the boy's head, girl's hands and girl's head, respectively.