Icon Set Selection via Human Computation -Supplemental Material

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1 Introduction

In the following sections we will present the visual filters picked by interviewing multiple visual artists and surveying preferred live visual performance interfaces. We also provide all of the 45 icons designed for our method and used during the evaluation.

2 Video Filters



Figure 1: A frame from the original unfiltered video. 'Sunset at the Pier' by Mike Haytack, CC BY 3.0.

Filter Name	Filter Description		
Brightness	Basic brightness filter with a parameter controlling amount of bright-		
	ness.		
Contrast	Basic contrast filter with a parameter controlling amount of contrast.		
Gaussian Blur	A filter that blurs the visuals with a parameter controlling strength		
	of blur.		
Grayscale /	Saturation filter with a parameter controlling amount of saturation.		
Saturation	The lowest setting makes the visuals colorless.		
Hue Effect /	Basic coloration (hue) filter. Parameters control the color as well as		
RGB Cycle /	the amount applied.		
RGB Controls			
Solarize / Invert	Filter inverts the color value of the visuals. Parameter controls the		
	amount of inversion.		
Threshold	Filter thresholds visuals by intensity. Parameter controls the thresh-		
	old level.		
Trails	Filter causes each frame of visuals to leave a fading trail. Parameter		
	controls the lasting effect of the trail.		
Zoom	Filter enlarges image with a parameter controlling the amount of		
	enlargement.		



Filter Name	Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
Brightness	*	• • • • •			*
Contrast					
Gaussian Blur		•••••••••••••••••••••••••••••••••••••••		\bigcirc	
Saturation	معم				
Hue					
Solarize				Ĵ	
Threshold					\frown
Trails					
Zoom	P			\bigcirc	

3 Video Filter Icon Candidates

4 Human Computation Tutorial

Prior to commencing any tasks, crowd workers are given a tutorial including examples to minimize misunderstandings and clarify ambiguous terms. Below we show the displayed tutorial is depicted in Fig. 2, 3, and 4.

Describe an image/icon shown in one or two complete English sentences.	Example Page 1 of 1:
Detailed instructions: Inspect the image/icon. Describe it in English, with one or two complete sentences. Examples: √Good: Three balloons are in the image. The center one is a little shiny. √Good: The image shows three balloons, each at slightly different heights. XBad: balons XBad: asdasdkalsdj	Concography Campaign Text: Excelse tampa Text: Ex

Figure 2: A portion of the human computation tutorial explaining how the user solves the context-switching icon description task.

Task: Select the most	similar looking icon.		
Select which of the two candid	ate icon is the most similar to the target icon.	Example Page 1 of 1:	
Detailed instructions: • Inspect the target icon. • Click the most similar lookin • Examples: • √Good : Choosing	g one among the other two candidate icons.	Interview The fact that the state interview is the state that the state is the state and the state	
• XBad: Choosing	. Different shape, different size, different orientation.		

Figure 3: A portion of the human computation tutorial explaining how the user solves the icon identifiability-related task.



Figure 4: A portion of the human computation tutorial explaining how the user solves the icon comprehensibility-related task.