

Medialogy Aalborg Niels Jernes Vej 14 - 9220 Aalborg Øst http://www.medialogi-

Title: Magic Canvas

Theme: Visual Computing

Project period: September-December 2012

Project group: MTA 12338	Abstract:
Participants:	The theme for this project is Visual Computing. The group has been in
Gustav Dahl	collaboration with Hjørring Library in developing an installation called Magic Canvas. The goals are to make ar
Johannes Møjen	entertaining installation that can be enjoyed by people of all ages. The Magic Canvas utilizes an infrared webcam to capture
Maximilian Müller	video of people casually passing by displaying them on a big canvas as a Christmas-related character. To make the camera get a clear contrast, infrared LED
Marco Winther	strips are placed near the canvas. The software is mainly written in C++, using the OpenCV library to extract video information. The Unity game engine is there
Marta Botella	used for visualization. To detect people with the camera, various image processing techniques have been used, such as
Simon Jakobsen	thresholding, background subtraction region of interest and BLOB analysis. The program is working without any physical devices, and it does not require any external
Supervisors:	maintenance. The program ran throughou December 2012.
Thomas B. Moeslund	
Andreas Møgelmose	

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