

A couple is shown in profile, kissing. The woman has long, curly blonde hair and is wearing a white top with a red and yellow patterned strap. The man has a beard and is wearing a grey sweater. They are in a room with a wall covered in large, colorful, abstract shapes in shades of yellow, blue, green, and purple. The lighting is warm and focused on the couple.

Double Vision

A Practice-led Investigation of Art and Differential Perception

Highlighting

Eye for an Eye

Perceptual Explorations of Visual Acuities
Through Animations



Double Vision

A Practice-led Investigation of Art and Differential Perception

David Lyons

Double Vision

A Practice-led Investigation of Art and Differential Perception

Double Vision is a collection of ongoing, practice-led, interrelated studies into artistic expression controlling perceptual experiences between audiences of varying visual acuities. The work is focused on those with different visual perceptions, particularly individuals with varying experiences, including how art is perceived by the blind and partially sighted.

These explorations lead to the translation of art and design to enhance meaning and accessibility. The ongoing artistic explorations are realized through printmaking, animation, augmented reality and multimedia formats.

David Lyons & Raz Ullah Expression Intercession Light Installation

Expression Intercession, a multi-media art installation, is a collaborative work between artists David Lyons and Raz Ullah. The interactive environment consists of a dynamic motion graphic and a dynamic sound environment. These elements are influenced by changes in the immediate environment. These changes are detected by audience interactions and sensors within the setting of the artwork resulting in changes to the artwork resulting in changes to the environment. These changes are meant as an analogy to changes in the epigenome.

David Lyons is a Lecturer in Media Design at Abertay Dundee and is a PhD student at Dundee University. He is currently producing a book on the history of visual communication. Raz Ullah is a sound artist and 'hardware hacker'.

David Lyons is an artist and 'hardware hacker' who has developed work for the Edinburgh Art Festival, the Science Festival, NEO Digital and Edinburgh.

David Lyons & Raz Ullah Expression Intercession Installation Interactive

Expression Intercession, des artistes David Lyons et Raz Ullah est une installation multimédia collaborative. Cet environnement interactif est composé d'une animation graphique projetée sur un mur allié à un paysage sonore. L'expression de cette animation graphique et de ce paysage sonore sont influencés par la modification de l'environnement immédiat de l'oeuvre. Ces variations sont déclenchées par les interactions avec le public au moyen de capteurs et de projecteurs placés au cœur du dispositif. Les transformations artistiques inhérentes aux influences environnementales sont alors proposées comme une analogie avec les changements de l'expression génétique en épigénétique.

David Lyons enseigne la communication visuelle à l'Université Abertray de Dundee en Ecosse. Il est également doctorant à Dundee au Jodanstone College of Art and Design de l'Université de Dundee. Lyons étudie les théories et les pratiques de la perception visuelle, explorant les manières dont sont perçues et interprétées les oeuvres d'art à travers des gravures, des animations et des projections. Il produit actuellement des oeuvres en collaboration avec l'artiste sonore Raz Ullah et l'informaticien David Flatla.

Raz Ullah est un musicien, artiste sonore et 'hardware hacker'. Son travail intègre à la fois des éléments analogiques et numériques, des logiciels interactifs, ainsi que des projections réalisées avec des instruments fabriqués par ses soins. Il a développé des travaux pour des installations et des événements au Festival d'Art d'Edimbourg, au Signal Festival de Prague, à la Fête de la Science à Dundee et pour NEO Digital Arts and Soundproof à Edimbourg.

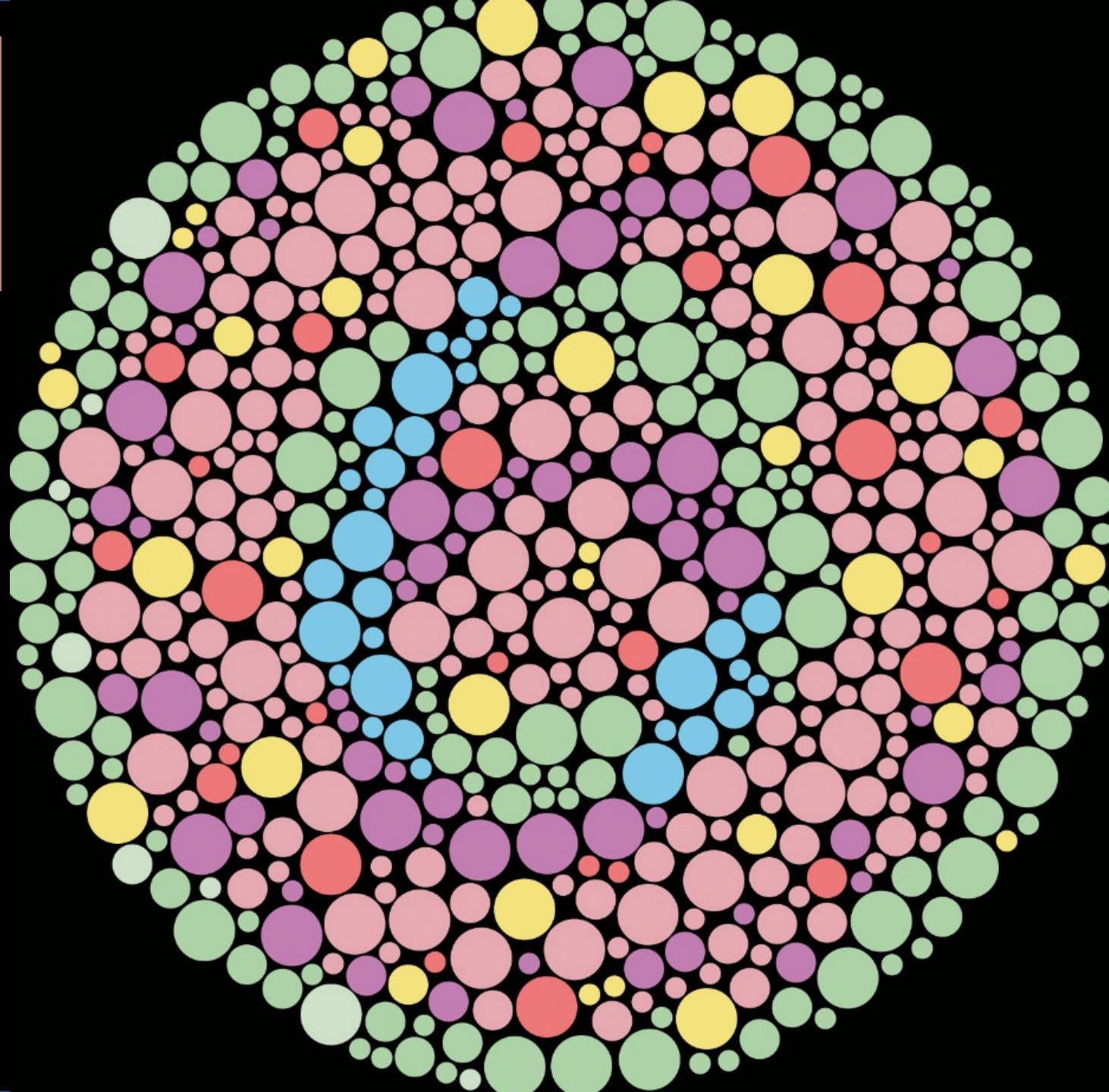


Double Vision

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Perception is interrogated through practice encompassing aesthetic sensibilities, design principles, artistic notions of colour grouping, colour theory and physiology. Later studies introduce computer programming, interaction and sound.

This work seeks an understanding of how distinct visual populations see the world, and to use that knowledge to explore and manipulate their perception of the world, through the medium of art. Additionally, it strives to access others' perceptual worlds.



Double Vision

A Practice-led Investigation of Art and Differential Perception

Double Vision comprises interrelated visual studies. This document concentrates on the intertwined works *Eye for an Eye* and *Triple Blind*. Following is a brief description of all current *Double Vision* studies:

Double Blind Test Series investigates the relationship of vision and perception.

Colour Blind Test explores visual stimuli aiming to simultaneously engage audiences of varied colour vision acuities.

Eye for An Eye and *Triple Vision* seeks to advance perceptual interrogation through the introduction of movement, using motion graphics animation, projection mapping and sound.



Double Vision

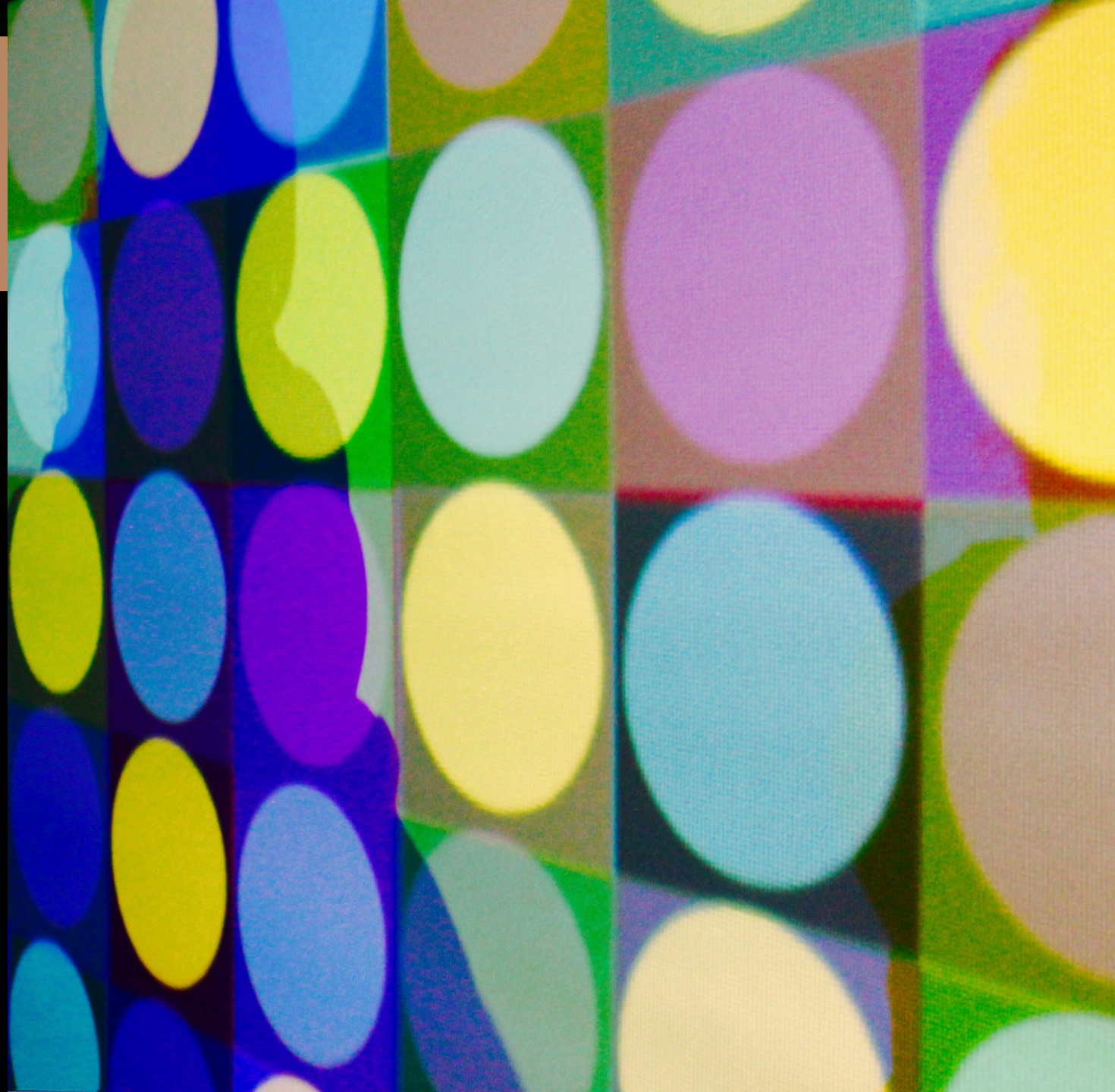
A Practice-led Investigation of Art and Differential Perception

Ball of Confusion is an environment that integrates graphics, projected animations and a dynamic soundscape. It is an artistic analogy to colour deficient vision.

Expression Intercession is a multi-media art installation. The interactive environment consists of a wall-sized projected motion graphic and a dynamic soundscape. It was created as an artistic exploration of visual perception and the processes of epigenetics

Circle Squared, through projected motion graphic and interactive sound, looks at colour creation and its effect on our perceptions and expectations by exploring the incongruous relationship between print and screen.

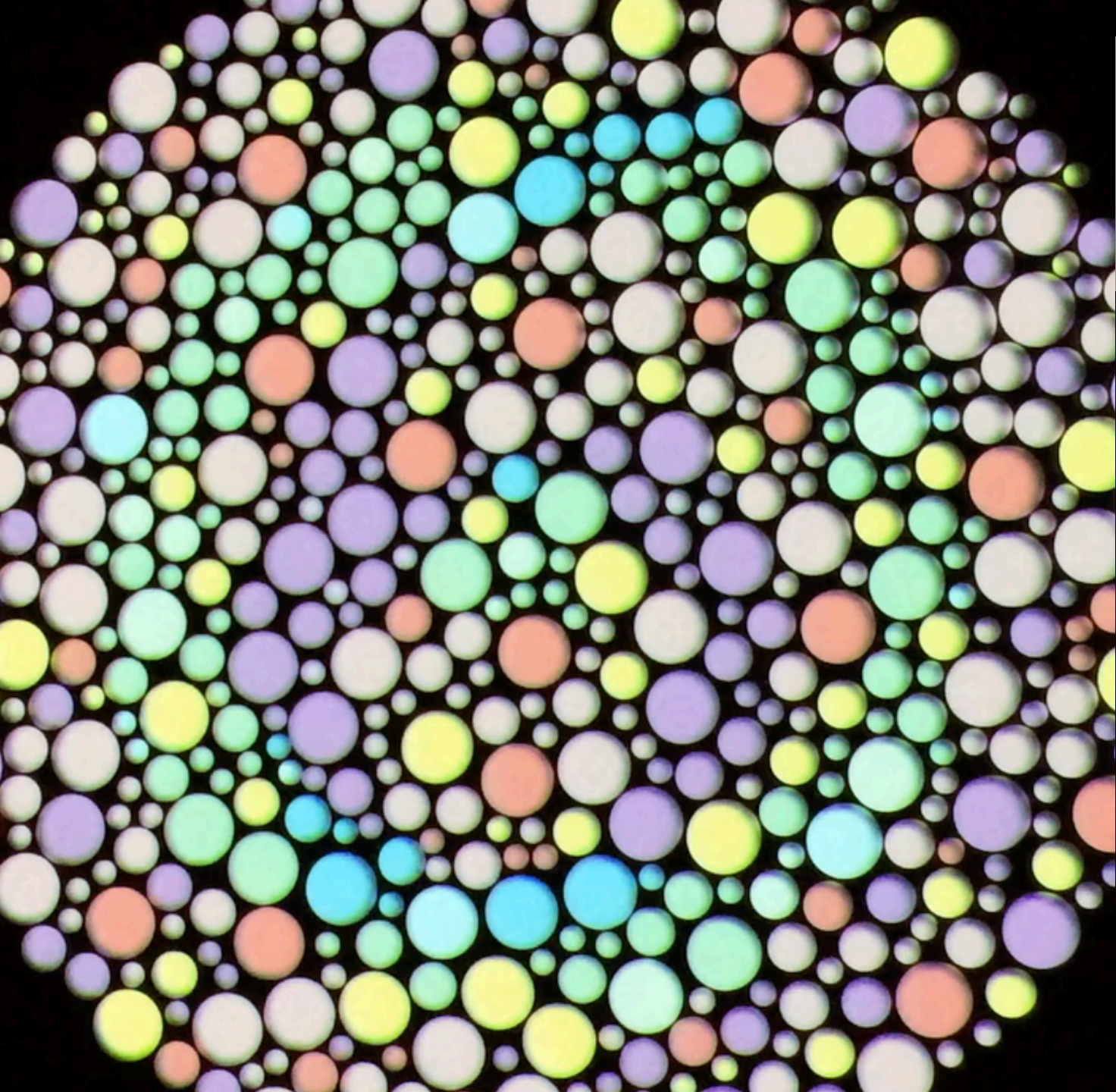
Sheep and Goats, a print diptych, communicates unique details exclusively to those with CVD while simultaneously containing imagery that those with typical colour vision experience.





Eye For An Eye and Triple Vision

Perceptual Explorations of Visual Acuities Through Animations



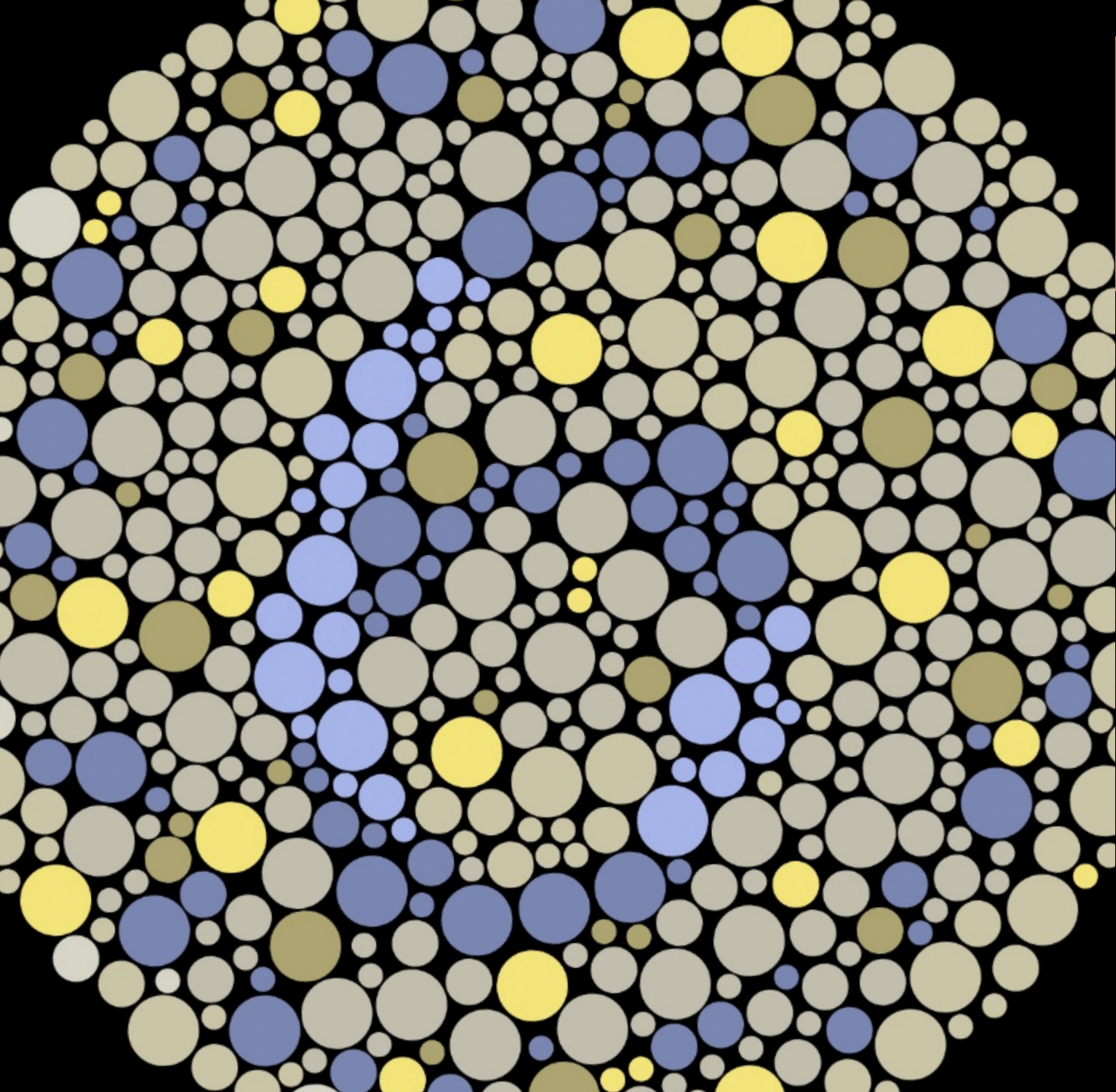
Eye for an Eye and Triple Vision

Overview

Eye for An Eye and Triple Vision is a study within *Double Vision*. *Eye for An Eye and Triple Vision* seek to advance perceptual interrogation through the introduction of movement, using motion graphics animation, and sound. Created in continued collaboration with computer scientist David Flatla, *Triple Vision*, adds collaboration with Manchester School of Art sonic artist and musician Raz Ullah.

Eye for an Eye's ambition was to progress the perceptual explorations of embedding multiple visual interpretations to specific visual acuities to animations, through applying the techniques established in previous studies. The investigation continues into artwork intentionally created to be experienced differently dependent on one's visual abilities with the hope that those experiences can be shared.

Animation as designed for those
with typical colour vision



Eye for an Eye and Triple Vision

Overview

Triple Vision incorporates the animations of *Eye for an Eye* into prints. It consists of three identical black and white prints when combined with the *Eye for An Eye* motion graphics projected and spatially mapped onto their surfaces, create potent visual experiences for both colour blind and typically sighted audiences.

Simulation of animation as
seen by those with CVD

Expanding perceptual exploration, *Triple Vision* adds sound with its accompanying audio soundscape. Companion smart devices programmed with the CVD simulation and recolouring software were provided to visually translate the experiences between audiences, thereby adding further levels of interaction.

Eye for an Eye and Triple Vision

Overview



“后印刷时代”的版画

当代社会与艺术环境下的版画问题与方法

Printmaking in the Post-Print Age:
Critical and Creative Methods in the Context of Contemporary Art and Society



第九届IMPACT国际版画会议
IMPACT 9 International Printmaking Conference

日期: 2015.9.22 - 26
September 22nd - September 26th, 2015
地点: 中国美术学院
China Academy of Art, Hangzhou, China

学术论文 / 说明性演讲 / 主题讨论

Academic Papers / Illustrated Talks / Themed Panels

中国美术学院8号楼会议室 (一、二、三层)
1st, 2nd, 3rd Floor, Meeting Room at Building#8, CAA

展览 / 开放对话 / 工作室演示项目 / 版画器材展示
Exhibitions / Open Portfolios / Workshop Demonstrations /
Trade Fair

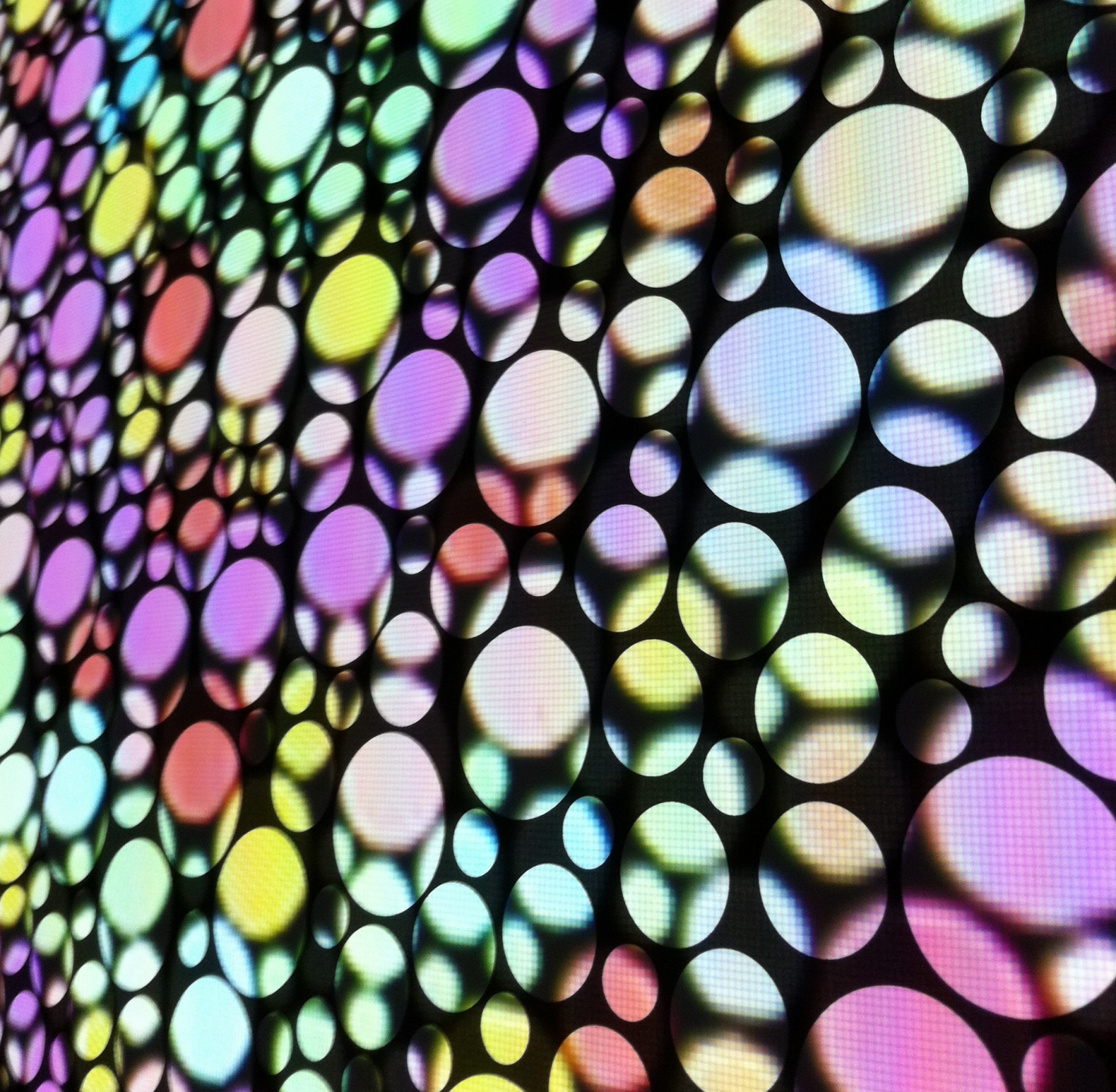


Eye for an Eye and Triple Vision Exhibition

Eye for an Eye/Triple Blind were exhibited as part of *Eye for an Eye*, an exhibition of *Colour Blind Test*, *Eye for an Eye/Triple Blind* and supporting materials, at the Hannah Maclure Centre Gallery, Dundee Scotland. The exhibition was the basis of a 3.5 minute [documentary film](#) by colour blind filmmaker Ben Grieves. It was created for Summerhall's Art In Scotland TV.

The paper *Eye for an Eye* was presented to the Electronic Visualisation and the Arts (EVA) London conference. It outlined the art, science and initial experiments in the creation of the motion graphics and the simulation software for those with full colour vision and those with CVD and was published in the proceedings. The art and the software was demonstrated later in the day.

Triple Vision was exhibited at Xihu Contemporary Art Gallery, Hangzhou China as an edited two print/projection piece titled *Double Vision*. The exhibition was part of the IMPACT 9 international printmaking conference. A paper on the work was published in the proceedings.



Eye for an Eye and Triple Vision

Findings

The manipulation of light rather than pigment was challenging and intriguing. The translation of colour between different colour modes, specifically CMYK and RGB was satisfactorily overcome, but it remained to be further explored. This is approached in the next artistic investigation, *Ball of Confusion*.

Detail: Mapping the projection to fit the print

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