Boolean Logic is a work exploring the relationship between entropy, tipping points, order and chaos by attempting to employ Boolean logic to building a structure. The sculpture, a seemingly chaotic structure, was built following 3 basic rules from salvaged timbers and mapped using a Venn diagram mapping each timber’s adherence to 3 basic conditions, timber touches easel, timber touches other timber, timber touches floor. The timbers were not allowed to touch the floor so any fallen or displaced timbers had to be rebalanced on the structure and all effected timbers mapped.

The work was commissioned for the show BOOLEAN EXPRESSIONS: Contemporary art and mathematical data, at the Lewis Glucksman Gallery UCC, Cork curated by Fiona Kearney in association with the College of Science, Engineering and Food Science, and George Boole 200, University College Cork. The show, celebrating the work and bicentenary of Cork based mathematician Boole whose logic gates are integral to modern computer programming, featured the work of artists: Darren Almond, Aram Bartholl, Mel Bochner, Hanne Darboven, John Gerrard, Sol LeWitt, Tatsuo Mijajima, Aisling O’Beirn, Matthew Ritchie and Lynne Woods Turner. All Galleries, 25 July - 8 November 2015 In 2015 UCC will commemorate the legacy of George Boole, the first Professor of Mathematics at what was then Queen’s College Cork, now UCC, under the banner of George Boole 200. Through an extensive programme of events, the life and works of George Boole will be celebrated culminating with the establishment at the university of the George Boole legacy which will enable the ongoing celebration of George Boole and the long established tradition of world-class research in academic disciplines associated with him. As part of the George Boole 200 celebrations at University College Cork, the Lewis Glucksman Gallery will present BOOLEAN EXPRESSIONS: Contemporary art and mathematical data, an exhibition that explores the ways in which artists use mathematical ideas and systems in
their work. BOOLEAN EXPRESSIONS will demonstrate the creative synergies between scientific and artistic thinking and invite audiences to explore mathematical concepts, the impact of big data on contemporary life, the ways in which systems and codes support creative production, and how artists have used logic and technology for their own artistic purposes.

The exhibition was opened by the film-maker David Puttnam who articulated his frustration at the ongoing need to emphasise links between science and art. The catalogue Boolean Expressions: Contemporary Art And Mathematical Data 2015, edited by Fiona Kearney with forward by Michael Murphy and essay by Brian Fay was produced as a record of the for the exhibition.


http://www.100archive.com/project/boolean-expressions

https://motley.ie/boolean-expressions-contemporary-art-and-mathematical-data/

Still from installing 'Boolean Logic' in Boolean Expressions, Contemporary Art and Mathematical Data, Lewis Glucksman Gallery UCC, Cork Curated by Fiona Kearney 2015, photo Lily Spearman
Boolean Logic in "Boolean Expressions" (Darren Almond in background)
Boolean Logic in “Boolean Expressions” detail of Venn diagram

Boolean Logic in “Boolean Expressions”, detail
BOOLEAN EXPRESSIONS
Contemporary art and mathematical data

GLUCKSMAN
Áiléar Lewis Glucksman, Coláiste na hOllscoile Corcaigh, Éire
Lewis Glucksman Gallery University College Cork, Ireland

Boolean Expressions Invite
The Lewis Glucksman Gallery
invites you to the official opening of

BOOLEAN EXPRESSIONS
Contemporary art and mathematical data

by Lord David Puttnam
at 3pm on Friday 24 July 2015
RSVP at rsvp@glucksman.org


Exhibition curated by Fiona Kearney
in association with the College of Science, Engineering and Food Science, and George Boole 200, University College Cork

BOOLEAN EXPRESSIONS is supported by the Arts Council of Ireland, Science Foundation Ireland and private philanthropy through Cork University Foundation.

An extensive programme of curated events, talks, art courses and workshops takes place during the exhibition run.

Please consult our seasonal brochure at www.glucksman.org

The Lewis Glucksman Gallery is open:
Tuesday - Saturday, 10am - 5pm
Sunday 2 - 5pm
Closed Mondays
ADMISSION FREE/Suggested donation £5

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www.glucksman.org
Recently Lord David Puttnam opened the exhibition \textit{BOOLEAN EXPRESSIONS} which is currently at the Glucksman Gallery in University College Cork. This exhibition explores the ways in which artists use mathematical concepts and systems in their work, leading them to investigate ideas of Boolean algebra, the impact of 'big data' on contemporary life, and how systems and codes support creative production. The exhibition captures the works in which artists have used logic and technology in their artistic practices.

\textit{BOOLEAN EXPRESSIONS} also commemorates the legacy of George Boole, the first Professor of Mathematics at Queen's College Cork and a pivotal figure whose work can be described as the 'father of the information age'. His invention of Boolean algebra and symbolic logic pioneered a new mathematics, and his legacy continues as everywhere, in the computer, information storage and retrieval, electronic circuits and controls that support IT, learning and communications in the 21st century.

Throughout \textit{BOOLEAN EXPRESSIONS}, the processes of calculation and communication utilized by mathematicians - and by connected artists - are realized through physical and performative gestures. In Boolean algebra, values are designated either 1 or 0, true or false, and this binary logic structures all computer programming. John Connell's three-column work \textit{Excess/Deficit} features a simulated race that is to develop a large landscape populated with the avatars of women workers, each in a different location according to the algorithms used in GPS systems.

Gamesdevelopers.ie online coverage of Boolean Expressions

Boolean Expressions facebook page
Boolean Expressions: Contemporary art and mathematical ideas (2009)

(8 July to 30 September 2009)

Leslie Ball's collection. Courtesy of the artist.

E Flux Boolean Expressions advertisement