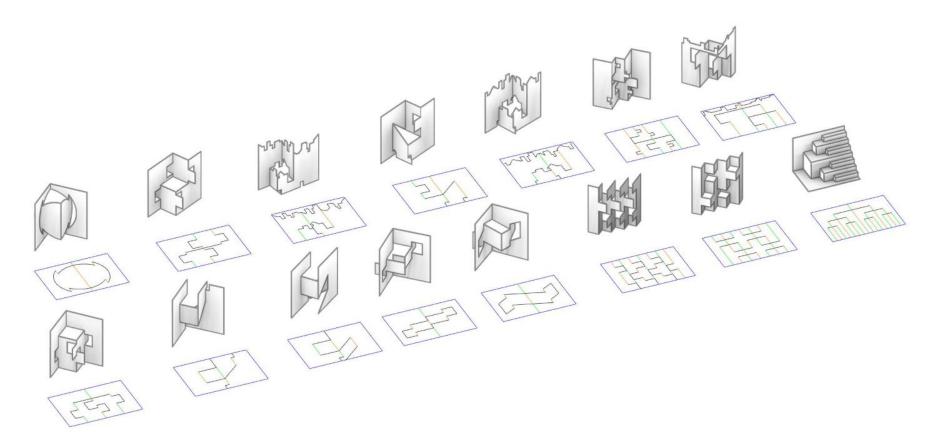
### PAPER POP UP PROJECTION MAPPING



Amir + Judith Soltani transnova@yahoo.com

<u>metrowave.co.uk</u> <u>cinecensory.org</u> 1.



Pop up template



A4 precut paper



Paper folding



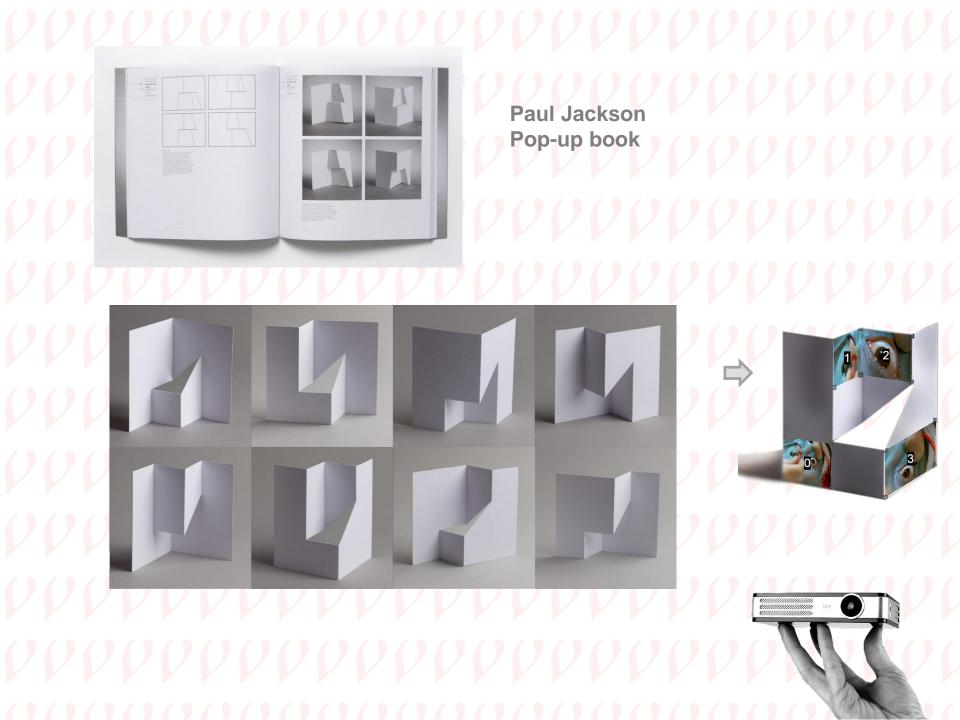
Assemble a scene

V

2.



The core of this workshop engages participants in a physical/ digital experience of creating scenes resembling architectural and urban setting, using a prepared pool of image and video clips projected on generic A4 paper pop ups. The aim is layering content to create and modify intriguing scenes using simple projection mapping techniques and vvvv popular nodes such as 'Bad Mapper'. Additionally we'll demo some possibilities for architectural data visualisation using projection mapping as presentation tool.



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Intro
Demo
Folding
Cutting shapes
Pop ups
vvvv basics

Make scenes
Scanning scene
Photo scene
Edit scan scene
Recap 360
vvvv patching

Projection mapping Content creation Green screen Final projection

### What is projection mapping?

A brief history

And why vvvv is good for projection mapping

## What is Projection Mapping

Augmenting reality

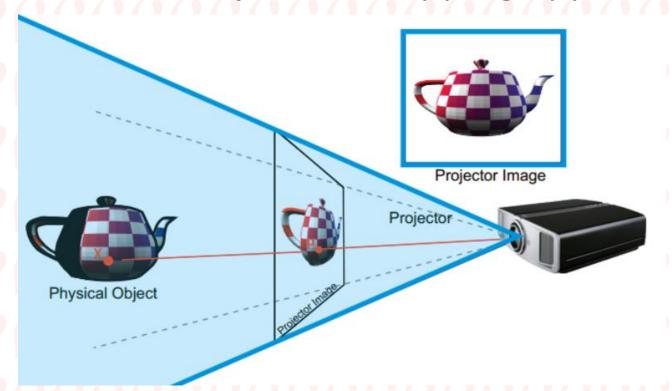


Common use of projectors onto 2D screen

Projection mapping onto 2D/3D objects

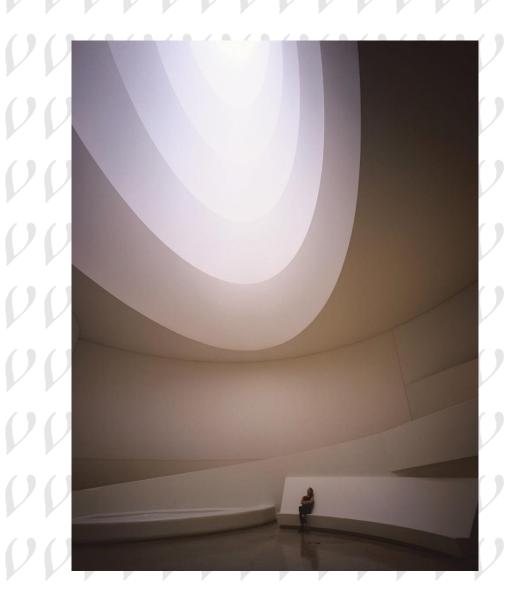
- Video Mapping
- Spatial Augmented Reality
- Real-time Projection of content onto spatial (2D and 3D) objects where its formal properties are mapped as accurately as possible to eliminate/minimize distortion

### Projection mapping application



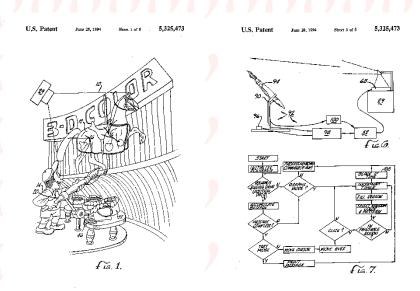
light show, vj, stage desig Audiovisual performance Art Installation Scenography Architectural projection Window display Data visualisation

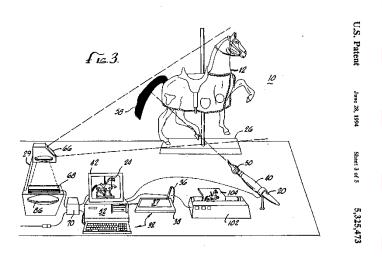
# James Turrell Afrum White 1943





### Walt Disney 1969 early projections









1969 patent application for projection mapping prototype

http://www.doombuggies.com/secrets\_seance.php







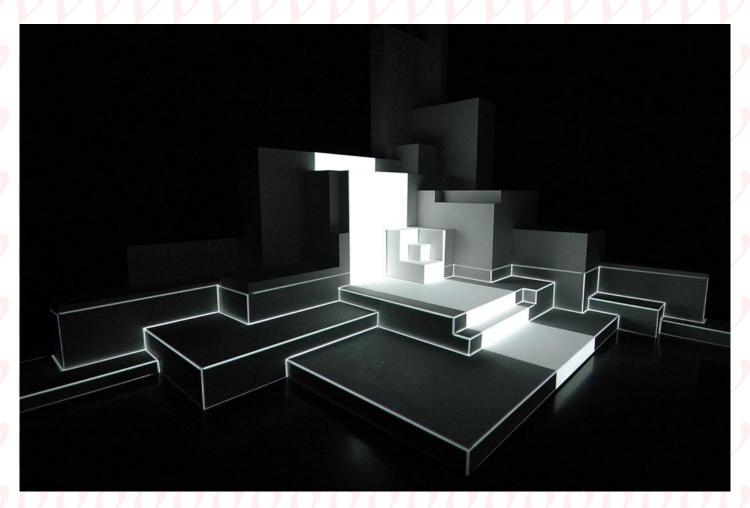


## Michael Naimark Displacement 1980



http://www.naimark.net/projects/displacements.html
http://www.naimark.net/projects/displacements/displ2005.mov

Pablo Valbuena
Augmented Sculpture Series 2007



https://player.vimeo.com/video/34623832

#### Projection Mapping become popular only in the last decade

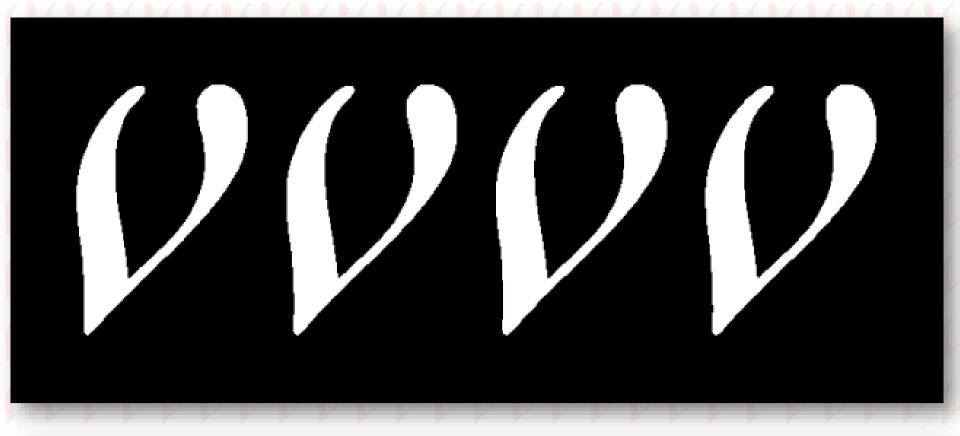


- https://player.vimeo.com/video/189192769
- https://www.youtube.com/watch?v=PKMCB5v8pt0

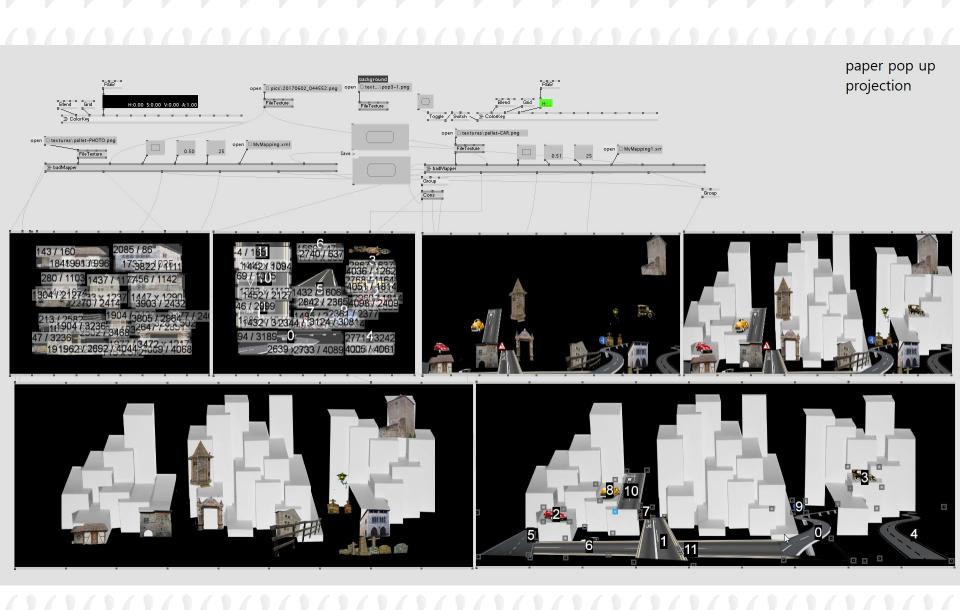
555 Kubik (2009) projection on Gallery of Contemporary Art for the client Kunsthalle in Hamburg.

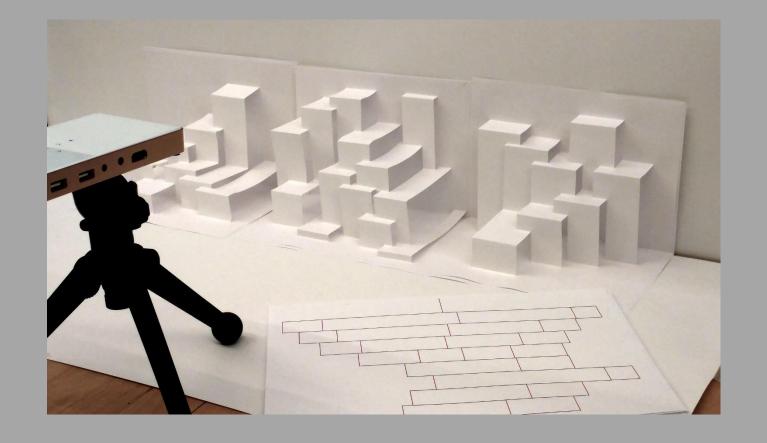


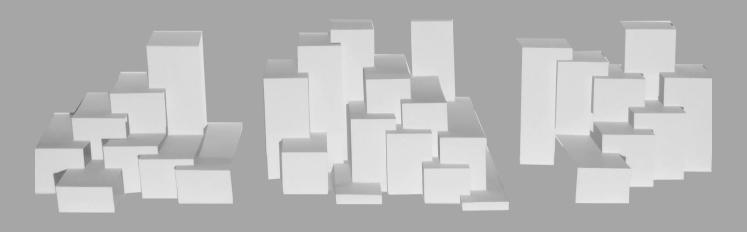
vvvv in a nutshell?



R MULTIPURPOSE TOOLKIT







## Paper pop up models



Paul Jackson's book: Cut and Fold Techniques for Pop-Up Designs

