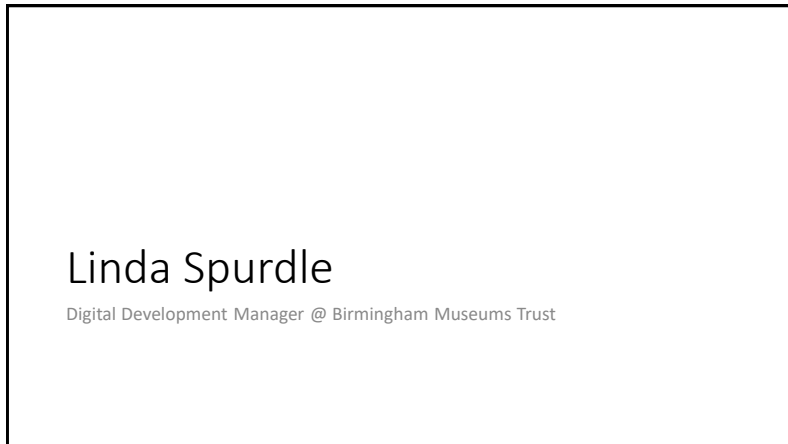




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10.00am	Arrival & welcome
10.15am	Housekeeping & an overview of the day
10.30am	Projection Basics a DIY Approach
11.00am	What we have to work with: DAMS & Spaces (Museum Tour) <a href="https://dams.birminghammuseums.org.uk/">dams.birminghammuseums.org.uk/</a>
11.30am	<b>BREAK</b>
11.45pm	Time to build your first projection
1.00pm	<b>LUNCH</b>
1.45pm	Animation + Projection Mapping
2.30pm	Adding Interactivity
3.15pm	<b>BREAK</b>
3.30pm	Show & Tell
4.00pm	<b>CLOSE</b>

2



3



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Use  
↓  
Repurpose  
↓  
Remix

Interactive Touchscreens    In Gallery Interactive Fiction    Escape Games with Android App

Digital Tour Guide    Babbling Beasts (NFC)    Audio Editing

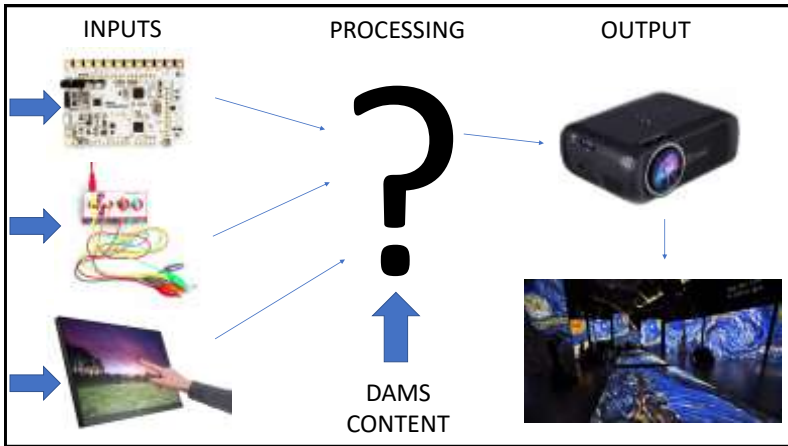
**diymuseum.tech**

CC BY NC

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Plan for Today

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Digital Asset Management System

Browse Folders

Birmingham Museums

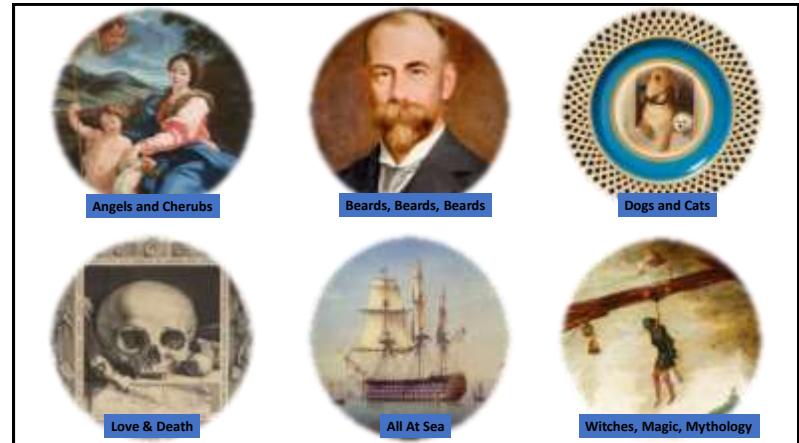
Birmingham Museums

[dams.birminghammuseums.org.uk](http://dams.birminghammuseums.org.uk)

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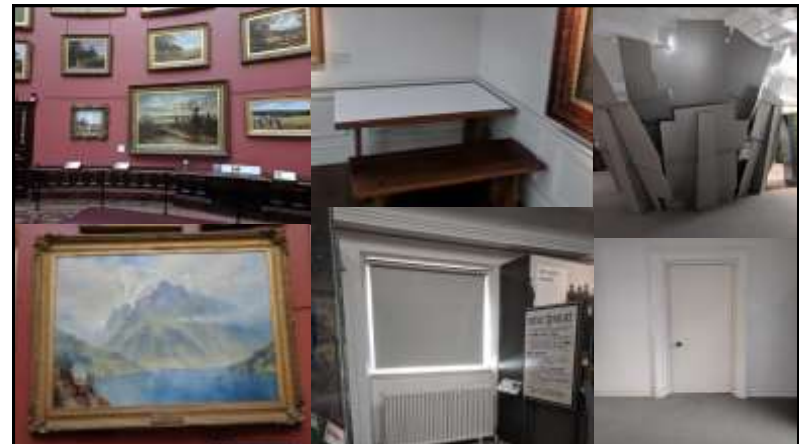


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## Our Locations within BMAG

- Power
- Table (or at least somewhere you can take a projector)
- Not too bright!
- Projection onto both:
  - Walls, doors, blinds
  - Museum Objects (not watercolours)

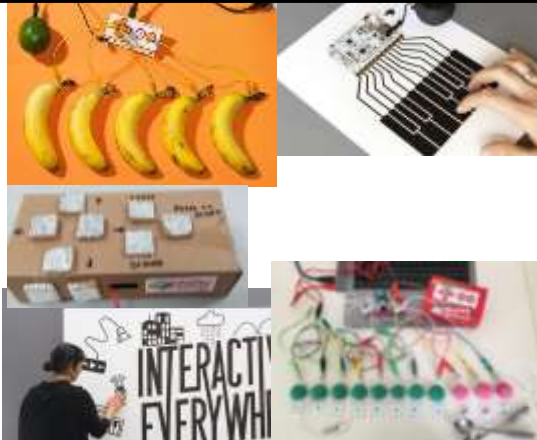
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## Interactions

- Pressure Pads
- Touch sensitive foil
- Fruit interactions
- Modelling clay
- Touchscreen
- Conductive paint



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## What could we build?

- Informative pieces
- Interactive slideshow e.g. Slide Projector
- Animations
- Highlight areas of the images
- Projection mapping – multiple surfaces
- Choose your own adventure
- Video interactive (aka Bandersnatch)
- Digital Poetry
  - Involve people –
    - High-five to progress – use two people to choose directions?
    - Make a connections between to places

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## Projection Mapping

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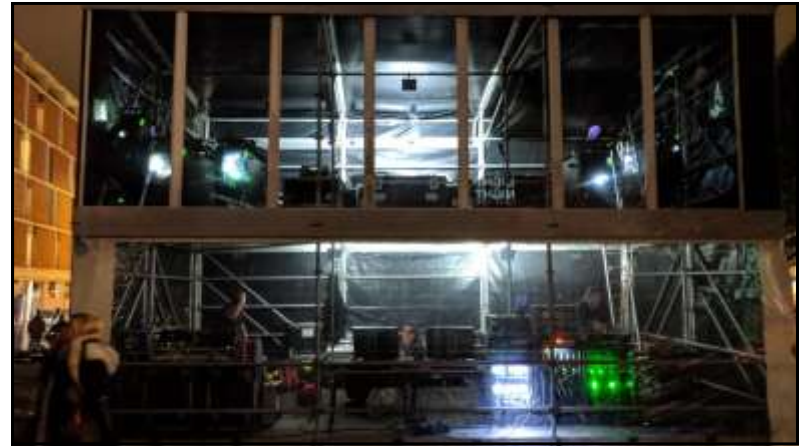
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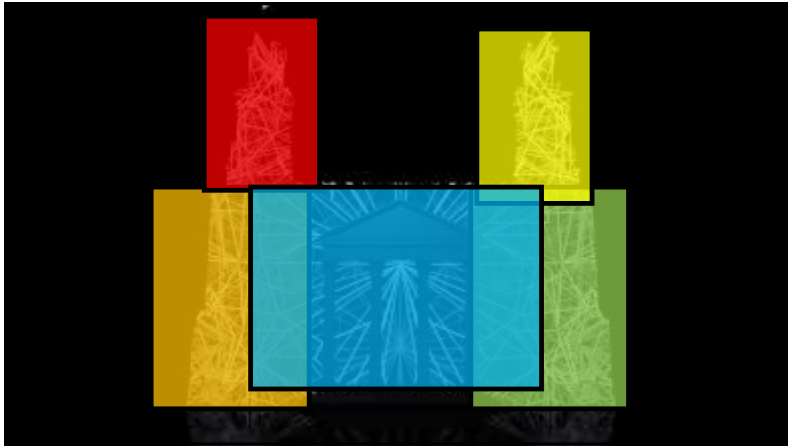
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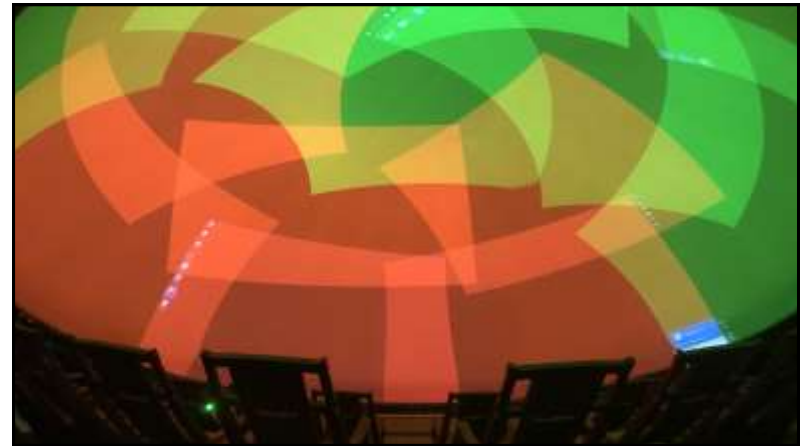


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## Ballpark Costs

- Projectors – Rental £5K per day
- 3 days of shows + set-up + break down = 5 days
- Numerous Projectors to cover large buildings 6 (often higher)
  
- Animation £5K+ per minute. 10 minutes
- Extras:
  - Media server hardware
  - Round the clock Security
  - Onsite Technical support
  - Event running costs

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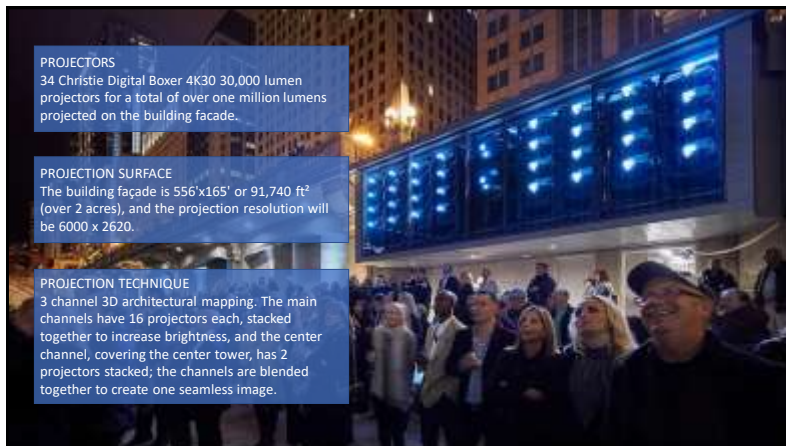
## Projection Mapping for 'Les Miserables', Hale Center Theater Orem



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High-end Software

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Mapping software



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Content Creation



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Combined Interactive & Installation



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Projection on a Budget

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## DIY: Projection on the cheap

- Projection is great as we can put the equipment out of the way
- Get away with using older projectors
  - Lower resolution is fine
- Run it on cheap hardware & software
- Single Projector (we can still do projection mapping!)

Total cost of: Laptop, Projector & Physical Interface

~£300

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Software that we're using today is...



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PowerPoint is a presentation tool & ...

- Photo editing tool
- Video editing tool
- Motion Graphics package
- Basic audio editing
- Creation of Interactives
- 3D modelling positioning

There is a programming language underneath (VBA) so it can be a games engine

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# POWERPOINT DEMOS

# MUSEUM TOUR TIME

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