



THE UNIVERSITY of EDINBURGH
Centre for Data, Culture & Society

DH & RSE in Edinburgh Roundtable

Alexis Pister,
Data Visualization Engineer, Edinburgh Future Institute

Ed MacKenzie,
Research Technologist, Edinburgh Future Institute

Evan Morgan,
Research Software Engineer, Design Informatics



www.ccds.ed.ac.uk



DATA
CULTURE
SOCIETY

DH&RSE at Edinburgh

Alexis Pister



Visual+
Interactive
Data



THE UNIVERSITY of EDINBURGH
Edinburgh Futures Institute



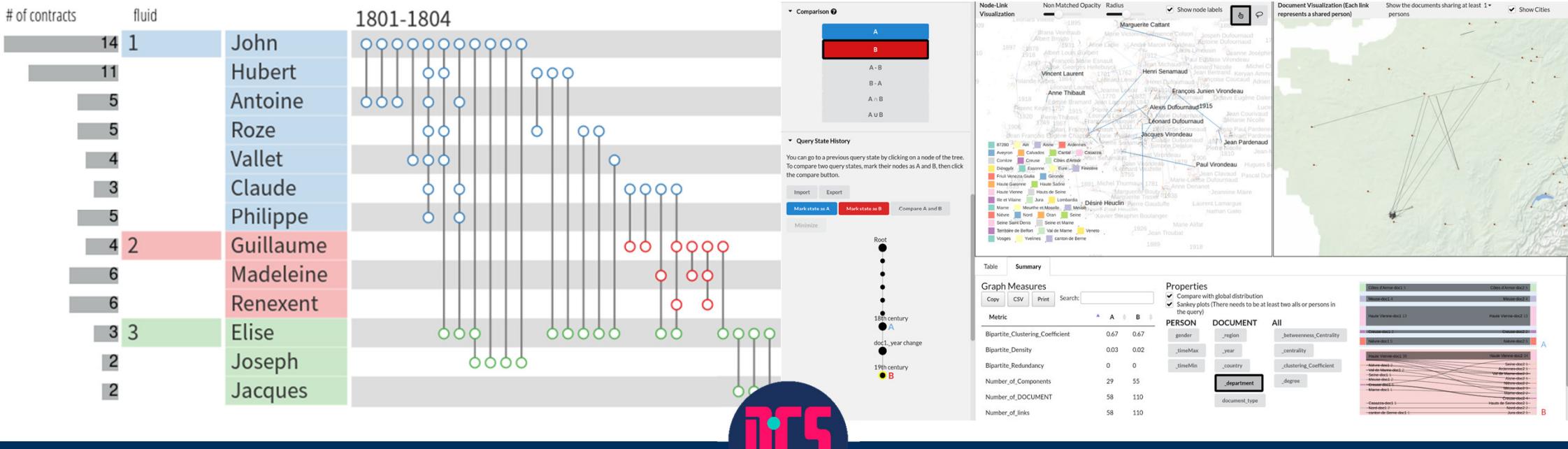
CV

- **Bachelor of biology**, Sorbonne University, Paris, 2014-2016
- **Bio-Informatics and modeling engineer degree**, INSA Lyon, 2016-2019
- **Artificial Intelligence Master 2**, Lyon I University, 2016-2019
- **Data Visualisation PhD**, Paris-Saclay University, Inria, Telecom Paris, 2019-2022

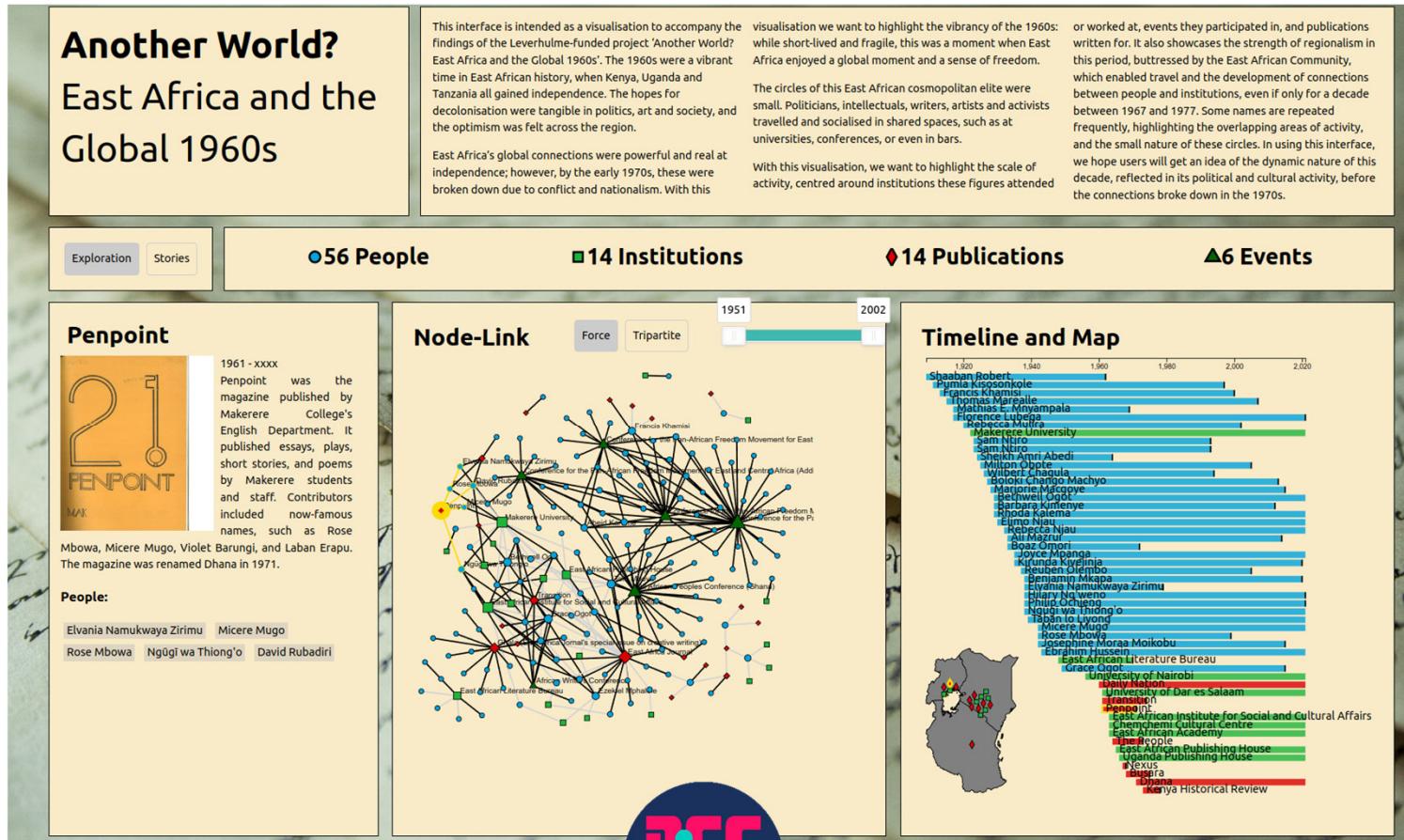


www.cdcslondon.ac.uk

PhD Topic: "Visual Analytics for Historical Social Networks: Traceability, Exploration, and Analysis"



Freelancing



Responsabilities

- **Design and prototyping** of data visualisation research applications
- **Discuss** research goals, contributions, plannification of projects
- Setup the **hosting and deployment** of applications: CI, Docker, deployment, etc.
- Work on **tests, documentation**
- Help PhD students setting up projects



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Typical Project Agenda

- Discussion with researchers about a project
- Discussion on the timeline, design and development, deployment, end of life.
- Design, Development (+tests and documentation)
- Deployment/Hosting
- Research Paper?
- End of Life



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Project initiation document – EFI RTS

To be completed prior to sign-off and project start, and stored in the EFI RTS Sharepoint site.

Project title

ADC Energy Dashboard

Background

Provide a brief overview and background information

ADC Energy is a company analysing data from offshore vessels that are involved in wind-turbine setup. Their data is coming from live sensors at vessel equipment, aimed to surveil these equipments. In the particular case, the company wants to build a dashboard for time series analysis to surveil a heavy wind, e.g., its load, its stress, etc. The project will be 4 months, a I would like to cost in 10% of Alex' time over this time (march-june)

Academic lead: Benjamin Bach

EFI RTS Lead: Alexis Pister

In scope: what are we doing?



Objectives:

Reference	Description	Priority
O.01	Designing visualisations for vessel equipment monitoring	Must
O.02	Developing a visualisation application with interactions	Must

Project completion document – EFI RTS

Project title

Towards AI-Human Collaboration for Animal Disease Emergency Response

Background

Provide a brief overview and background information

The COVID pandemic has shown the importance of epidemiological models as decision tools that help estimate risk and generate recommendations to inform public and animal health policies. As a proof of concept, our project will develop an automatically curated repository of literature on zoonotic epidemiological modelling, accessible to analysts and decision-makers through interactive visual analytics interface. Model data is stored in a database and made browsable through cutting-edge natural language processing and visualizations that help assess a model's fitness through, e.g., geographic distributions of model applications, types of models, institutional origin, or co-authorship relations. Accessing all this information in a quick and clear manner is crucial for data-driven decision-making. The project gives the benefit of automatization and embedding human's domain knowledge and ethics of epidemiological modelling into ML processes for improved animal disease emergency response.

Academic lead: Benjamin Bach, Chrysoula Lamprinopoulou, Lisa Boden

Contact: c.lamprinopoulou@ed.ac.uk

EFI RTS Lead: Alexis Pister

End of project date: 03/2024

Deliverables

The project led to the design and development of a visual analysis dashboard used to analyse a set of bibliography studying influenza strains. The dashboard integrates several visualisations such as a map, a timeline, and several node-link diagrams that shows the relationships between authors, publications, institutions, disciplines, countries, and strains.

Energy Dashboard

EquipGlance

▼ Demo Controls
Current time: Sun 2021-08-15 12:49:39 RESET TIME
Set speed: PAUSE NORMAL 2x 10x

Load Distribution (last 20min)

Mouse over the chart to view details.
maximum load
latest load
minimum load

Cumulative Ton-Miles

View 2/3 since 2020-08-15

Lifting Wire	Cumulative Ton-Miles
Lifting Wire 1	8,970.8 ton-miles
Lifting Wire 2	7,573.7 ton-miles
Lifting Wire 3	8,774.1 ton-miles
Lifting Wire 4	8,386.7 ton-miles
Lifting Wire 5	8,086.2 ton-miles
Lifting Wire 6	8,555.3 ton-miles

Sensor Data

Time range: 90 DAYS 30 DAYS 7 DAYS **12 HOURS** 15 MIN Live Data Updates

CUSTOM: 2021-08-15 00:55 – 2021-08-15 12:55

Detail: HIGH **MEDIUM** LOW (12h, 686 datapoints, 1min 3s per datapoint)

▼ MAINTENANCE & ACTIVITIES

Maintenance	NO DATA
Activities	NO DATA

LIFTING WIRE LOADS

Rank	Alerts	Load	Variance
1	Alerts	Load	Variance
2	Alerts	Load	Variance
3	Alerts	Load	Variance
4	Alerts	Load	Variance
5	Alerts	Load	Variance
6	Alerts	Load	Variance

Alerts 4

SEVERE FIRST CLEAR ALL

Date	Alert Description	Actions
Wed 2024-04-10 09:15:00	LW Load 2 - 78% increase	DETAILS DISMISS
Wed 2024-04-10 11:23:00	LW Load 1 - 23% increase	DETAILS DISMISS
Wed 2024-04-10 10:15:00	LW Load 1 - 23% increase	DETAILS DISMISS
Wed 2024-04-10 08:15:00	LW Load 1 - 23% increase	DETAILS DISMISS

Docker

docker-compose.yml 1.17 KiB

Blame Edit Replace

```
1 services:
2   web:
3     build: .
4     ports:
5       - "3000:3000"
6     depends_on:
7       - influxdb
8     networks:
9       - equipglance
10
11   influxdb:
12     image: influxdb:2.7.6
13     hostname: influxdb
14     container_name: influxdb
15     volumes:
16       #       - ./db:/var/lib/influxdb2
17       #       - ./db:/etc/influxdb2
18       #       - ./static/data:/data
19       #       - ./static/data:/var/lib/influxdb2
20       - ./db:/var/lib/influxdb2
21       #       - /usr/data:/var/lib/influxdb2
22       - ./config:/etc/influxdb2
23       - ./init-db.sh:/docker-entrypoint-initdb.d/init-db.sh
24       - ./env.production:/docker-entrypoint-initdb.d/.env
25     ports:
26       - "8086:8086"
27     environment:
28       - DOCKER_INFLUXDB_INIT_MODE=setup
29       - DOCKER_INFLUXDB_INIT_USERNAME=user
30       - DOCKER_INFLUXDB_INIT_PASSWORD=password
31       - DOCKER_INFLUXDB_INIT_ORG=ediuni
32       - DOCKER_INFLUXDB_INIT_BUCKET=main
33       - DOCKER_INFLUXDB_INIT_ADMIN_TOKEN=token=
34     networks:
35       - equipglance
36     #     entrypoint:
37     #       - influx write --bucket main --org ediuni --token token= -f /var/lib/influxdb2/ctm-2020.csv --format csv
38     #       - influx write --bucket main --org ediuni --token token= -f /var/lib/influxdb2/ctm-2020.csv --format csv
39
40   networks:
41     equipglance:
```

Continuous Integration

心血 .gitlab-ci.yml 291 B

Blame Edit Replace

```
1 stages:
2   - deploy
3
4 deploy:
5   image: docker:latest
6   stage: deploy
7   script:
8     - docker-compose rm -f
9     - docker-compose -f docker-compose.yml up -d --build
10    #   - docker-compose -f docker-compose.yml up -d --build --force-recreate
11   tags:
12     - production
13   only:
14     refs:
15       - main
```



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Openstack

openstack. ed • vishub ▾ apister ▾

Project API Access Compute Overview Instances

Project / Compute / Instances

Instances

Instance ID	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
equipglance	Ubuntu 2.04	192.168.2.88, 129.215.193.20	m1.medium	equipglance-key	Active	nova	None	Running	1 month, 1 week	Create Snapshot
visactivities-server	Ubuntu 2.04	192.168.2.31, 129.215.193.8	m1.small	visactivities-server-key	Active	nova	None	Running	1 year, 1 month	Create Snapshot
vistorian_testing	Ubuntu 2.04	192.168.2.41, 129.215.193.46	m1.small	JSB Yubikey	Active	nova	None	Running	2 years, 4 months	Create Snapshot
vistorian	Ubuntu 2.04	192.168.2.218, 129.215.193.74	m1.small	JSB Yubikey	Shelved Offloaded		None	Shut Down	2 years, 4 months	Disassociate Floating IP

Images Key Pairs Server Groups Rating Volumes Network Orchestration Object Store Identity

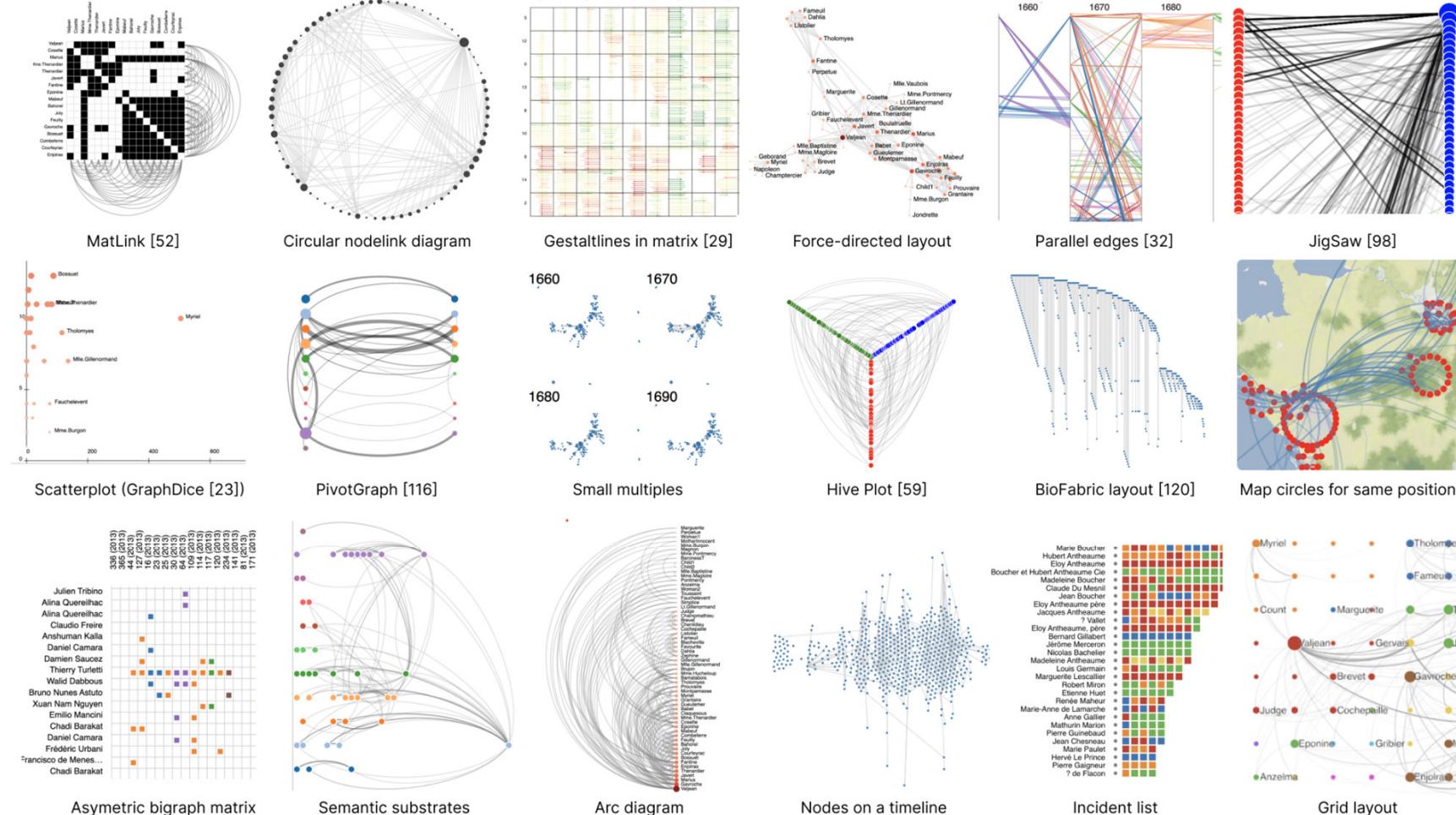
Displaying 4 items

Instance ID = Filter Launch Instance Delete Instances More Actions



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Netpanorama



```
spec := height?, width?, pan?, zoom?, x?, y?, data+, network+,  
grouping*, ordering*, table*, layout*, scale*, vis+, parameter*, map?
```

data := name, (values | url | localStorage), format,
 dataTransform*

network := name, (simpleNetwork | complexNetwork),
 networkTransform*

grouping := name, dataRef, common

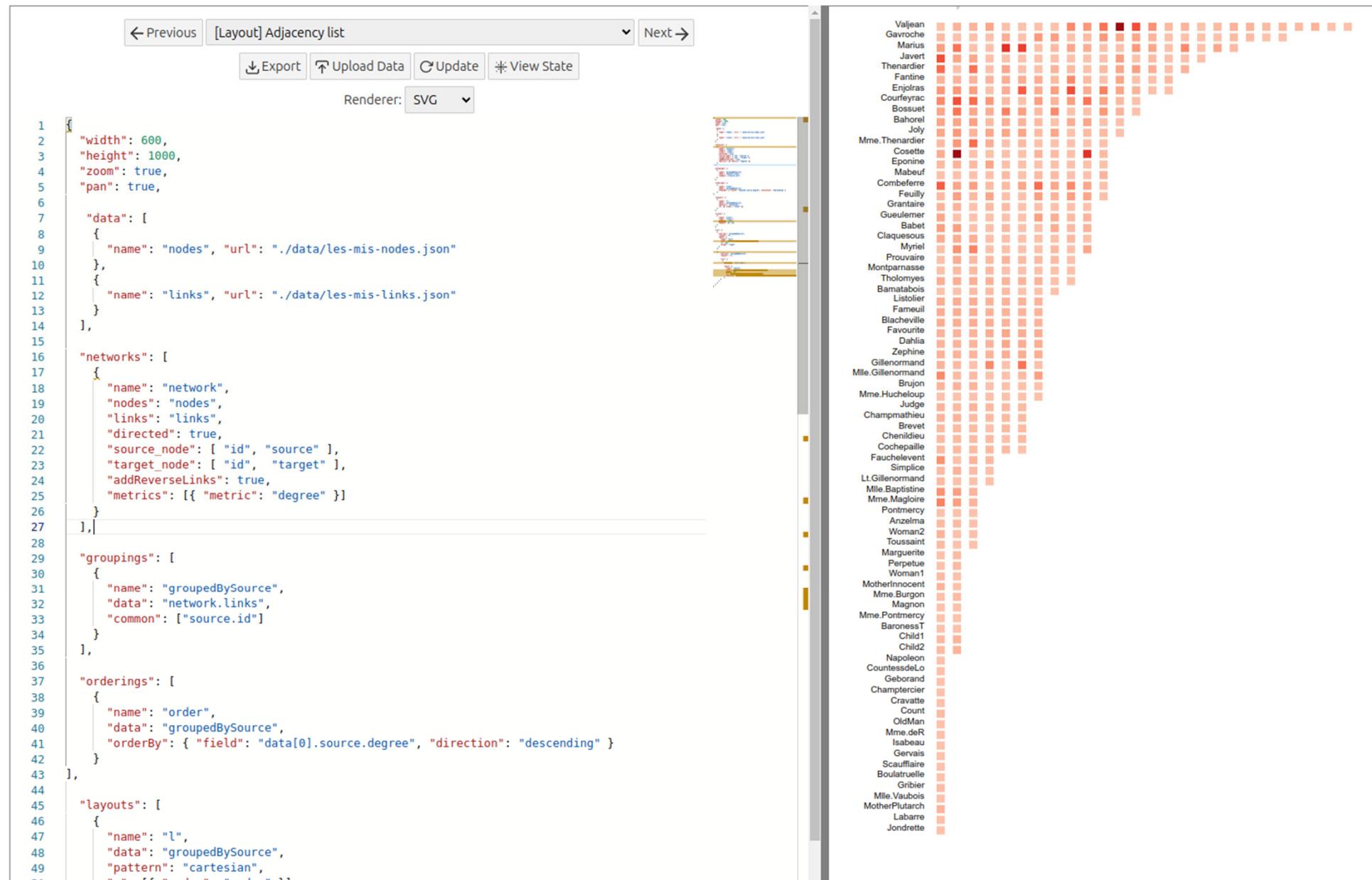
ordering := name, dataRef, allowTies?, orderingCriterion

table := dataRef, rowOrder, colOrder, group?, rowLabels?,
 colLabels?, dragToReorder?, symmetric?

layout := name, dataRef, (attributeLayout | topologicalLayout)
 layoutTransform*

scale := name, domain, range, scheme?, border?, layout?,
 drawAxes, overlapStrategy?

vis := dataRef, mark, vis*, layout*, table*



Documentation

The screenshot shows a web browser displaying the NetPanorama documentation at netpanorama.netlify.app/docs/intro. The page has a light gray header with a back arrow, forward arrow, refresh button, and a search icon. To the right of the address bar are several icons: a star, a green checkmark, a blue up arrow, a blue document, a blue folder, a blue link, a blue gear, and a blue A. A blue button says "New Chrome available". Below the header is a navigation bar with a logo, "NetPanorama", "Tutorial", "Usage", "Examples", "Editor", and a GitHub icon.

The left sidebar contains a tree view of documentation categories under "Intro":

- Grammar
- Concepts
 - The NetPanorama Editor
 - Importing Data
 - Constructing Networks
 - Transforming Networks
- Groupings
- Orderings
- Layouts
- Topological/Procedural Layouts
- Transforming Layouts
- Tables
- Scales
- Expressions
- Visual Encodings
- Interaction
- Maps
- Extensibility & Escape Hatches

At the bottom of the sidebar is a link "Example Exploration Sessions >".

The main content area has a title "Intro" and a sub-section "Example". The text in "Intro" says:

NetPanorama is a declarative language for defining visualizations of network datasets. The easiest way to get started using NetPanorama is to use the [interactive online editor](#). This has auto-completion, and tooltips providing documentation. Specifications are broken down into a series of blocks. The tutorial will discuss each of these in turn.

The "Example" section has a heading "Example" and a code block:

```
{  
  "data": [  
    {  
      "name": "nodes",  
      "url": "./data/les-mis-nodes.json"  
    },  
    {  
      "name": "links",  
      "url": "./data/les-mis-links.json"  
    }  
  ],  
  "width": 1000,  
  "height": 800  
}
```

Below the code block, a note says "Populate two data arrays by loading JSON files".

Git: Branches, Pull Requests

Clear current search query, filters, and sorts		Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	43 Open ✓ 15 Closed						
<input type="checkbox"/>	Linkpath mark dx, dy					<input type="checkbox"/> 1	
	#127 by AlexisPister was closed on Mar 29						
<input type="checkbox"/>	Rethinking the interactivity/rendering loop				<input type="checkbox"/> 1		
	#115 by AlexisPister was closed on Feb 19						
<input type="checkbox"/>	Projection deletes all nodes in dynamic network					<input type="checkbox"/> 2	
	#93 by AlexisPister was closed on Oct 24, 2023						
<input type="checkbox"/>	Add "click background to clear selection" interaction	enhancement	paxvis-project			<input type="checkbox"/> 1	
	#77 by jamesscottbrown was closed on Jan 31, 2023						
<input type="checkbox"/>	Zooming zooms on point that is not quite the cursor's position	bug					
	#76 by jamesscottbrown was closed on Nov 14, 2023						
<input type="checkbox"/>	Tooltips are glitchy?	bug	paxvis-project			<input type="checkbox"/> 1	
	#69 by jamesscottbrown was closed on Oct 24, 2023						
<input type="checkbox"/>	Fix Setcola examples	bug	examples			<input type="checkbox"/> 1	
	#52 by jamesscottbrown was closed on Dec 1, 2022						
<input type="checkbox"/>	Set default fill for non-text marks						
	#51 by jamesscottbrown was closed on Dec 2, 2022						
<input type="checkbox"/>	Setting scale domains implicitly						
	#50 by jamesscottbrown was closed on Dec 1, 2022						
<input type="checkbox"/>	Drag-to-reorder interaction for tables	enhancement					
	#49 by jamesscottbrown was closed on Dec 2, 2022						
<input type="checkbox"/>	Provide direct comparison to Vega network visualizations	documentation				<input type="checkbox"/> 1	
	#48 by jamesscottbrown was closed on Jan 11, 2023						
<input type="checkbox"/>	Fix examples embedded in docs on notify site					<input type="checkbox"/> 1	

Open-Source Libraries Maintenance

- Working with Git: Branches, Pull Requests, Reviews...
 - Git issues, reviews
- Long-term planning for adding features, debugging
- Tests and documentation are primordial
- Workshops and talks



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Pros and cons

Pros:

- More time for coding and development
- Many collaborations / Diversity on the projects
- Better work/life balance

Cons:

- Less freedom
- Other type of administrative work



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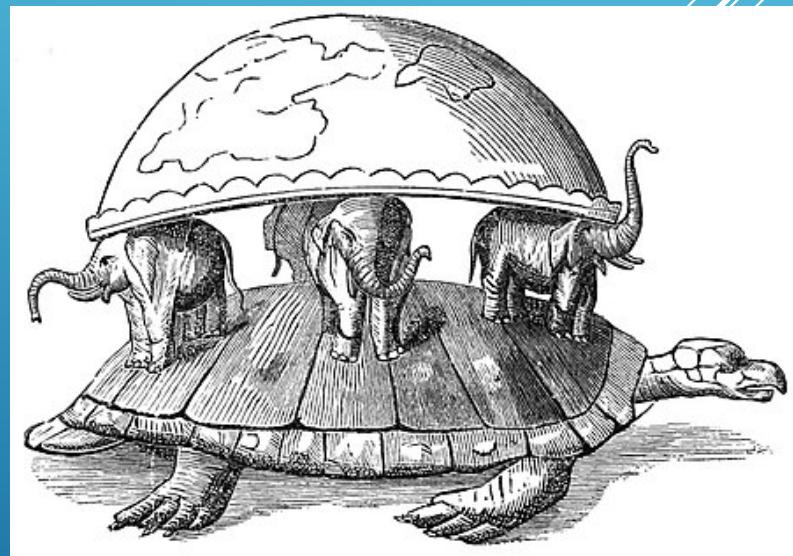
Evan Morgan,
Research Software Engineer, Design Informatics



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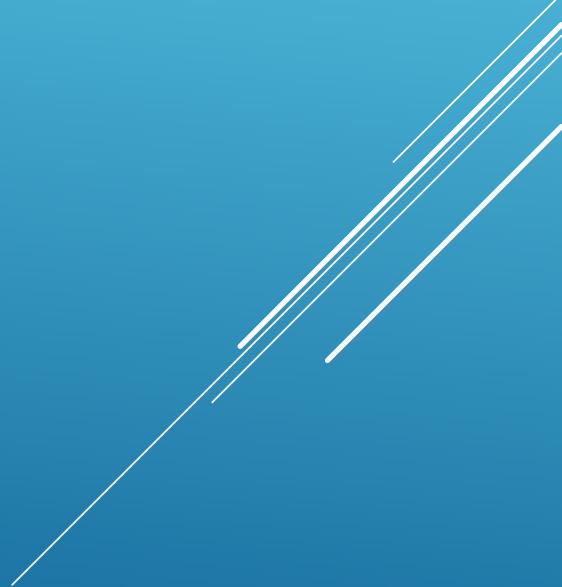
IT'S PORTALS ALL THE WAY DOWN

RSE experiences
Ed Mackenzie 30.6.24



- ▶ Digitised collection of the surviving editions of the “Old Bailey Proceedings” (1674 – 1913) and the “Ordinary of Newgate’s Accounts” (1676 – 1772).
- ▶ Details of 197,000 trials and approximately 150 million words.
- ▶ Project in two tranches ran from 2000 – 2007.
- ▶ Finalist for a British Computing Society Project Excellence award (2008).
- ▶ Winner of the Cybrarian Project Awards (2003)

PROCEEDINGS OF THE OLD BAILEY ONLINE



- ▶ <https://www.oldbaileyonline.org/>
- ▶ Radio
<https://www.bbc.co.uk/programmes/b012stwb/episodes/player>
- ▶ TV <https://www.bbc.co.uk/programmes/b01rdp8t>
- ▶ Newspapers and magazines
<https://www.newscientist.com/article/dn25724-crime-mining-hidden-history-emerges-from-court-data/>
<https://www.theguardian.com/law/2012/feb/22/charles-dickens-abel-magwitch-transportation>

PROCEEDINGS OF THE OLD BAILEY ONLINE

- ▶ Around 2004 – 10, the publishing industry was facing some issues.
- ▶ Technological shock: Namely the internet and arrival of Amazon.com in the book market (and the GFC from 2008 – 9)

The Version Museum
<https://www.versionmuseum.com/history-of/amazon-website>)



SEGUE: PUBLISHING INDUSTRY CIRCA 2004 – 14

- ▶ Collapse of the Independent Bookshops.
- ▶ Restructuring of the Publishing industry into digital content providers.
- ▶ New production model based around digital text.
- ▶ It was very familiar!

THE AFTERMATH



- ▶ Why am I at Edinburgh?
- ▶ EPCC and EIDF.
- ▶ Great potential.

FINAL WORDS



► Enjoy your visit!

FIN



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Centre for Data, Culture & Society

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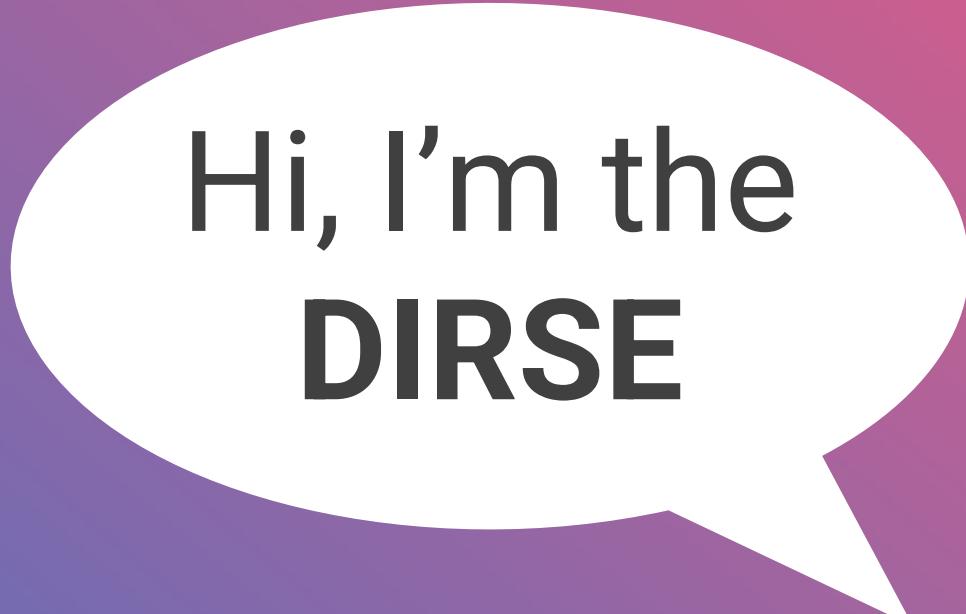
Ed MacKenzie,
Research Technologist, Edinburgh Future Institute

Evan Morgan,
Research Software Engineer, Design Informatics



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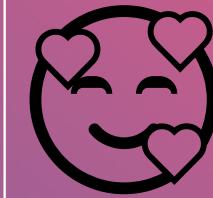




Hi, I'm the
DIRSE

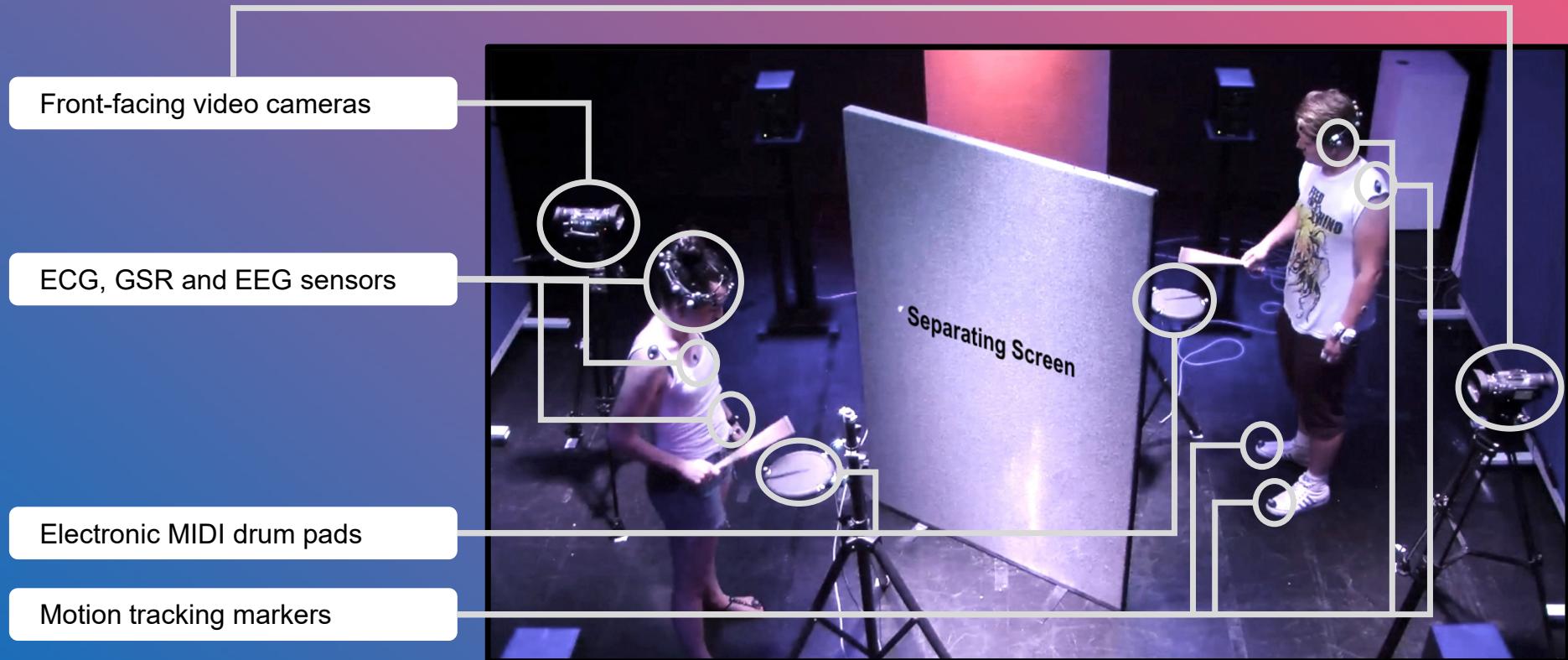
design
informatics

Evan Morgan
e.morgan@ed.ac.uk
designinformatics.org



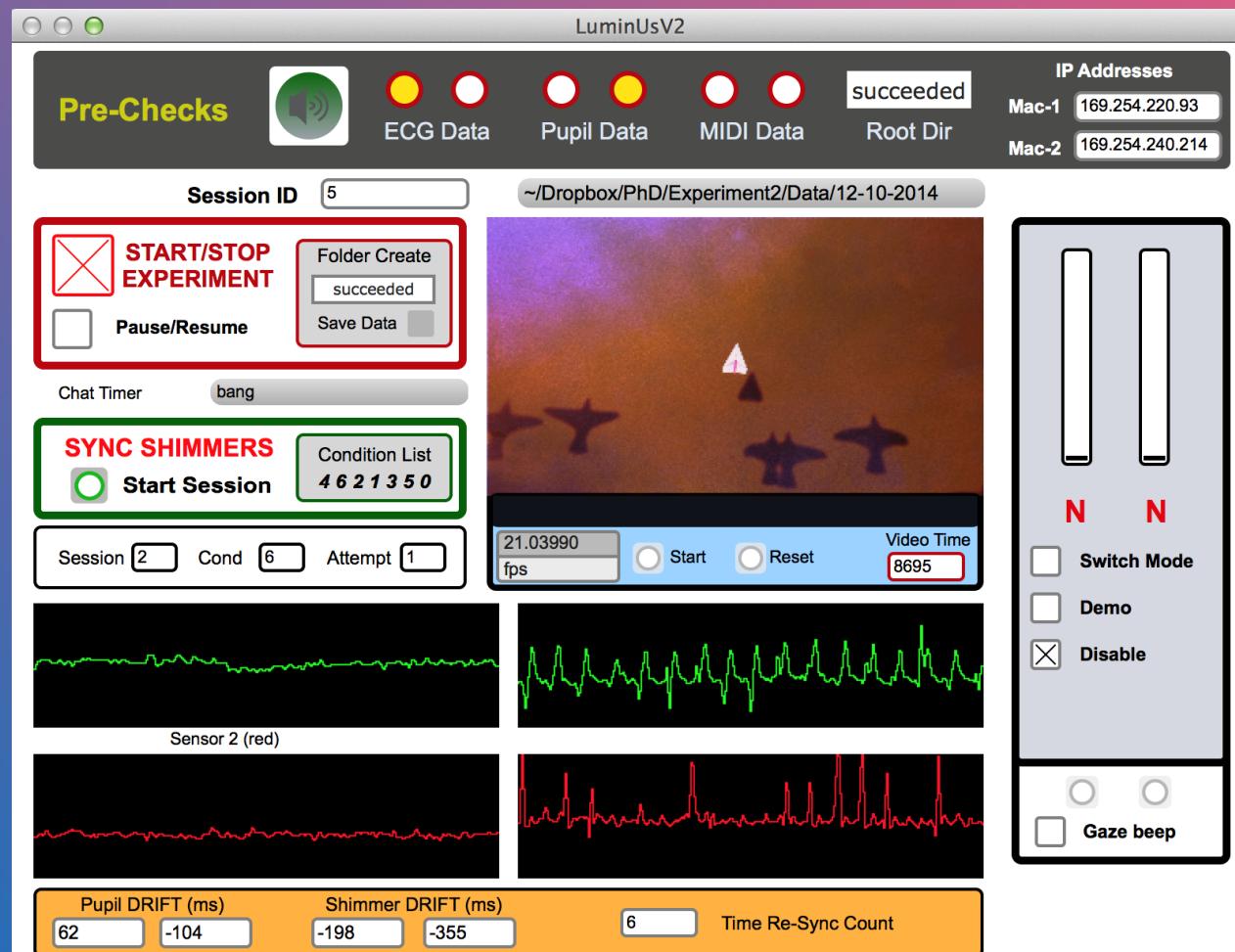


PhD: Media and Arts Technology



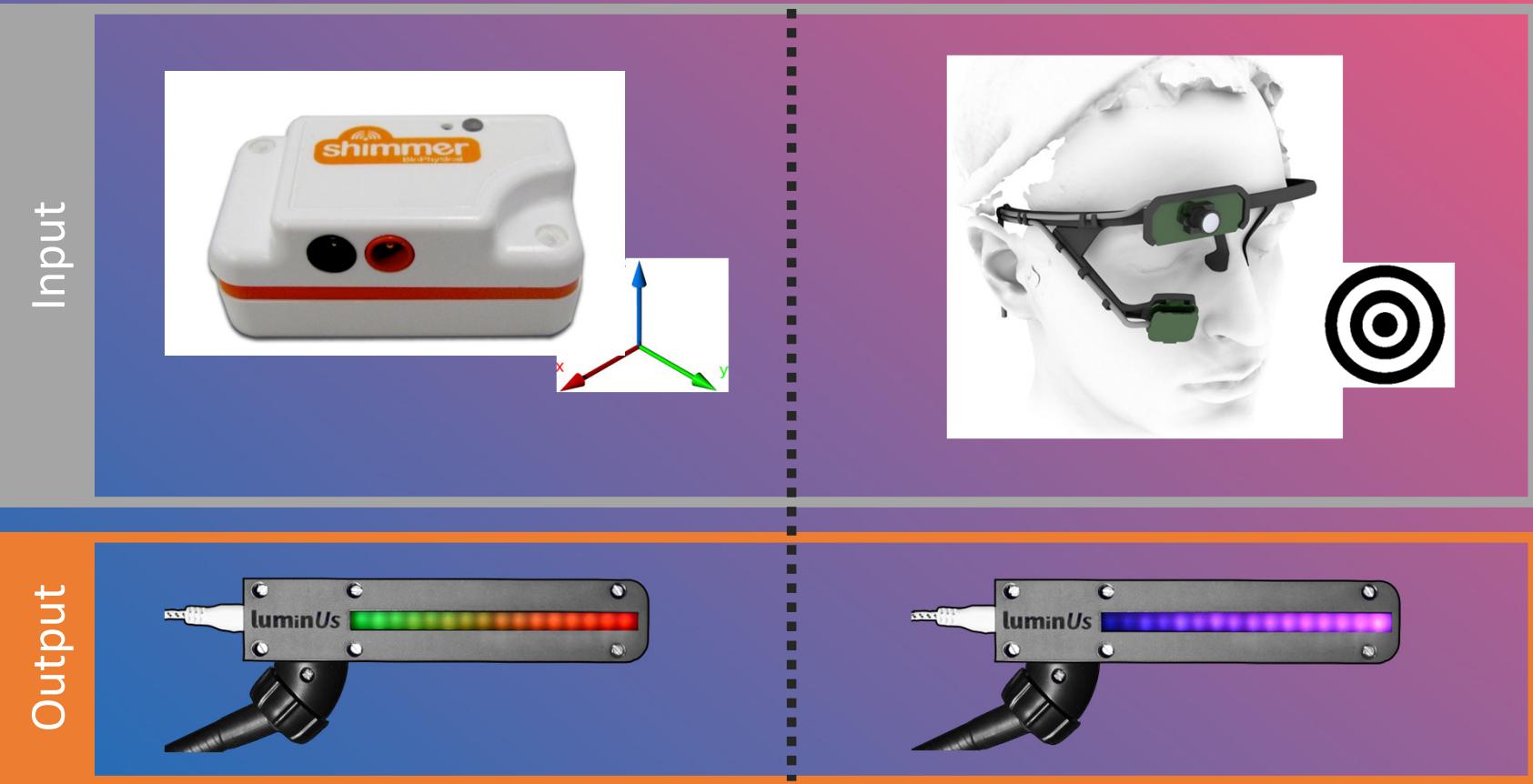


PhD: Media and Arts Technology



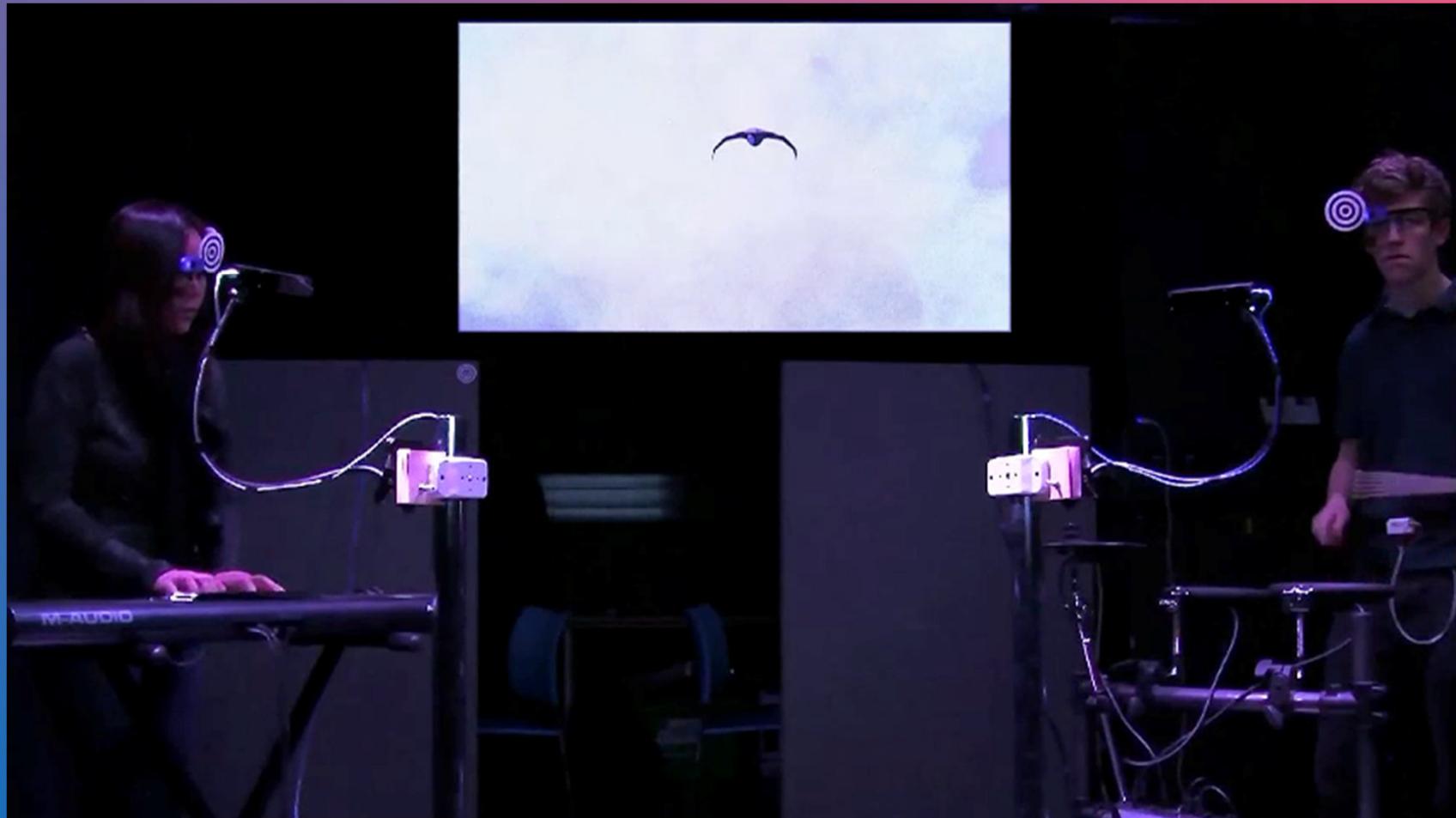


PhD: Media and Arts Technology



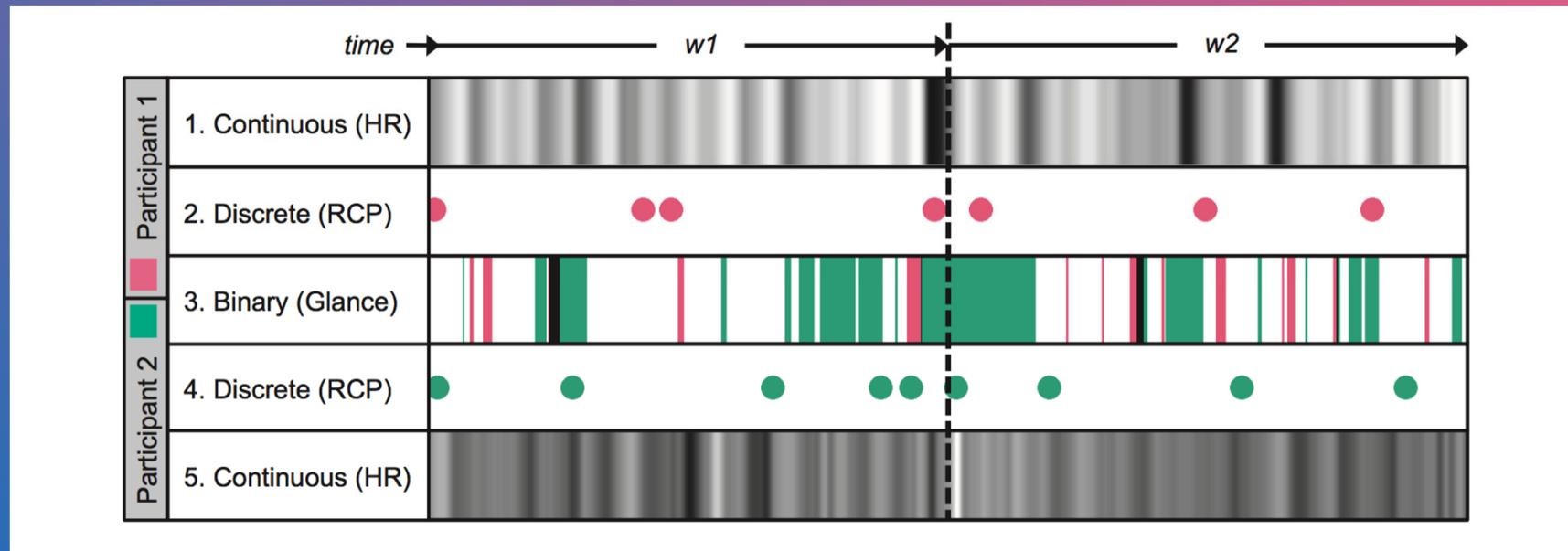


PhD: Media and Arts Technology





PhD: Media and Arts Technology





Postdoctoral Research



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ENERGY Report

This is your customised energy report for the Conference event you held at the Assembly Rooms on 04/03/2020. The Assembly Rooms holds a Gold Green Tourism award, and strives to be a leader in sustainability. Our event energy reports are one of the results of a two year collaboration with researchers at the University of Edinburgh, investigating how data can be used to encourage sustainable behaviours.

Your event ran from 08:00 to 18:00. During this time the venue used 2664 kWh of energy. A breakdown of this use is given below.

00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 00:00

ELECTRIC

During your event:

584 kWh (163 kg CO₂)

Average daily use*:

472 kWh (132 kg CO₂)



GAS

During your event:

2081 kWh (382 kg CO₂)

Average daily use*:

2992 kWh (549 kg CO₂)



* Based on the last 30 days of data.



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Enhance • EDINBURGH •
THE CITY OF EDINBURGH COUNCIL



Postdoctoral Research



THE UNIVERSITY
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Design Informatics



THE UNIVERSITY
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The screenshot shows the homepage of the Design Informatics website (designinformatics.org). The header features the university crest and the text "THE UNIVERSITY of EDINBURGH". Below the header is a navigation bar with links for RESEARCH, PUBLICATIONS, INDUSTRY, NEWS, EVENTS, POSTGRADUATE, and PEOPLE, along with a SEARCH bar. The main content area includes a "HIGHLIGHTS" section with a "Load More →" button, a "CREATIVE INFORMATICS" thumbnail showing people in a creative setting, a large central banner for "BRAID Bridging Responsible AI Divides" with research details, and a "DUCK" thumbnail.



Design Informatics



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of EDINBURGH

System design and development, management and maintenance.

Planning and project management.

Solution design and documentation.

Test/deploy/demonstrate.

Design Informatics



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The screenshot shows a web browser window with the URL git.ecdf.ed.ac.uk in the address bar. The page title is "Design Informatics". On the left, there is a sidebar with various project management links: Group (Design Informatics), Issues (107), Merge requests (4), Manage, Plan, Code, Build, Deploy, Operate, Settings, and Help. The main content area displays a list of subgroups and projects under the heading "Subgroups and projects". The list includes:

- A ARCHIVE (Owner) Archived projects, no longer in development or linked to live projects.
- B BOILERPLATES (Owner) Useful boilerplate/template projects.
- D DECaDE (Owner) website - Exploring the potential for decentralised platforms to disrupt the Digital Economy - .
- D DI Development Board (Owner) A bespoke development board for Design Informatics students.
- D DI Publications (Owner) Tools for managing/displaying DI publications.
- E ELEANOR (Owner) Configuration code for Eleanor Research Cloud resources.
- F FIRE (Owner)
- F Fruitmarket Night Walk (Owner) website - GPS and time restricted video player app and associated code for the Fruitmarket Night Walk.
- F FTML (Owner) Financial Transactions Markup Language - experimental demo.

Each item in the list has a small icon, a name, an owner status, a description, and a set of statistics (8, 11, 18, 1, 0, 2, 1, 2, 3, 4, 0, 2, 2, 1, 1, 1, 2, 2, 0, 2, 2, 1, 0, 1, 2, 2, 0, 1, 1, 2, 2).

Design Informatics



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openstack. ed • ECA_DesignInformatics_sandbox emorgan

Instances

Project API Access Compute Overview Instances Images

Instance ID = ▾ Filter More Actions ▾

Launch Instance Delete Instances

Key Pairs	Instance Name	Image Name	IP Address ▾	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
Server Groups	oragen-server	Ubuntu 2 2.04		m1.xlarge	oragen-server-key	Active	nova	None	Running	7 months, 3 weeks	Create Snapshot ▾
	nairs-server	Ubuntu 2 2.04		m1.small	nairs-server-key	Active	nova	None	Running	1 month, 3 weeks	Create Snapshot ▾
Rating	ripple-web-server	Ubuntu 2 2.04		m1.small	ripple-web-server-key	Active	nova	None	Running	1 year, 6 months	Create Snapshot ▾
	ticket-designer-server	Ubuntu 2 0.04		m1.medium	mykey	Active	nova	None	Running	2 years, 11 months	Create Snapshot ▾
Volumes	token-gesture-oxbat-server	Ubuntu 2 2.04		m1.medium	my-key	Active	nova	None	Running	1 year, 10 months	Create Snapshot ▾
	token-gesture-production	Ubuntu 2 0.04		m1.xlarge	mykey	Active	nova	None	Running	2 years, 3 months	Create Snapshot ▾
Network	fire-consumer-app-server	Ubuntu 2 2.04		m1.small	fire-consumer-app-server-key	Active	nova	None	Running	1 year, 6 months	Create Snapshot ▾
	vizblocks-server	Ubuntu 2 2.04		m1.medium	mykey	Active	nova	None	Running	1 year, 7 months	Create Snapshot ▾

Design Informatics



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The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with icons for back, forward, refresh, and search, followed by the URL 'portal.azure.com'. On the right of the bar are account information and a profile picture for 'emorgan@ed.ac.uk UNIVERSITY OF EDINBURGH (UO...)'. Below the bar, the title 'Microsoft Azure' is displayed next to a search bar containing 'Search resources, services, and docs (G+/-)'. A large 'Azure services' section follows, containing ten items with icons: 'Create a resource' (plus sign), 'Subscriptions' (key icon), 'All resources' (grid icon), 'App registrations' (cube icon), 'Resource groups' (two cubes icon), 'Microsoft Entra ID' (blue hexagon icon), 'App Services' (soccer ball icon), 'Quickstart Center' (rocket icon), 'Azure AI services' (cloud with brain icon), and 'More services' (arrow icon). Below this is a 'Resources' section with a 'Recent' tab selected. It lists various Azure resources with their names, types, and last viewed times:

Name	Type	Last Viewed
app-geocoin-prod-001	App Service	6 days ago
app-vistool-prod-001	App Service	5 months ago
app-toiletroll-prod-001	App Service	5 months ago
psql-vistool-prod	Azure Database for PostgreSQL single server	a year ago
rg-vistool-prod-001	Resource group	a year ago
sub-eca-geocoin	Subscription	2 years ago
sub-eca-vistool	Subscription	2 years ago
sub-eca-troll	Subscription	2 years ago
uoe-asc-export	Resource group	2 years ago
DST-MSVD-Production	Subscription	2 years ago

At the bottom left of the resources section, there's a link 'See all'.



Design Informatics



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GEO
PACT

SMART CONTRACTS
IN ACTION

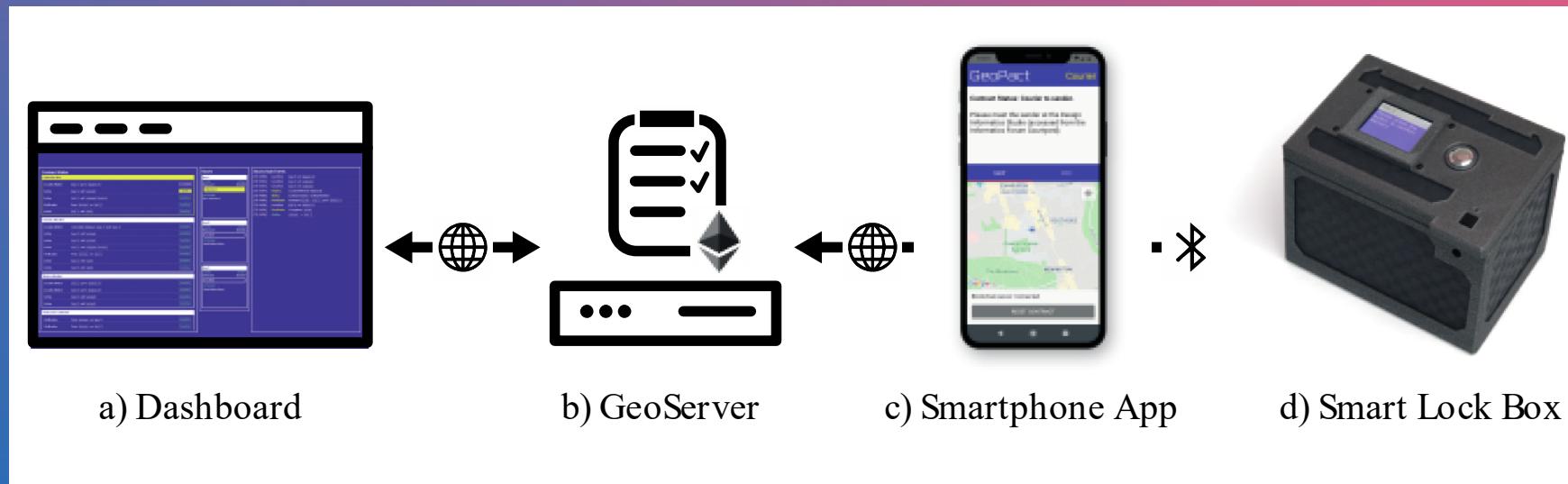
Dave Murray-Rust, Ella Tallyn, Joe Revans,
Eleonora Muller, Evan Morgan



Design Informatics



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ticket designer_{beta}

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Welcome!

Ticket designer is a tool for exploring the future of ticketing.

next



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ticket-designer.designinformatics.org



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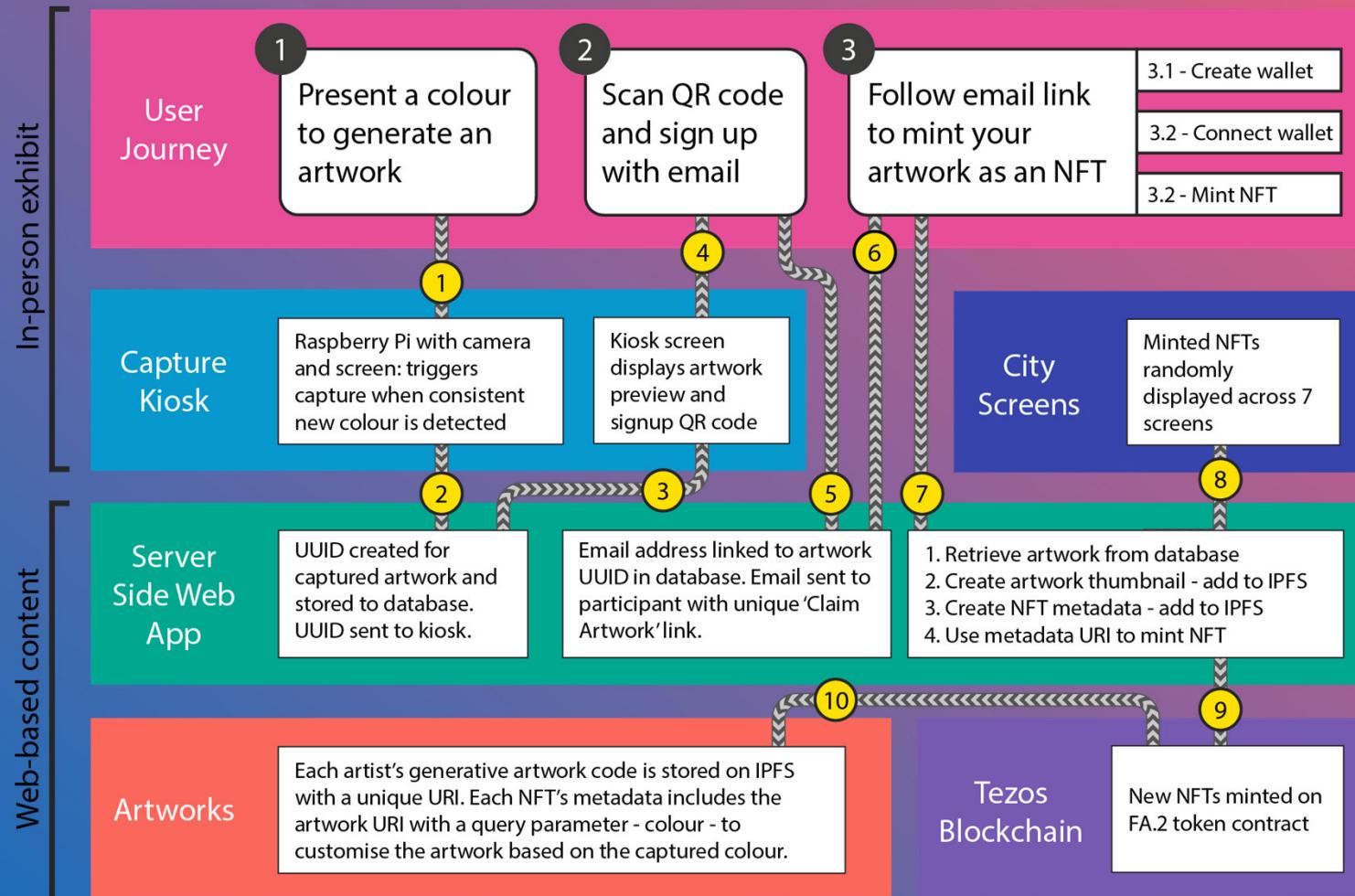
A Token Gesture

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Design Informatics





- Variety
- Autonomy
- Creativity
- Learning
- Making stuff
- Proximity to research



- Project dependent
- Flying solo
- Responsive vs responsible
- Master of none
- Career progression??
- AI



Thanks!

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