

Dr Jason Truscott (Student Learning Services)





### **Contents**

- Quick recap where Student Learning Services can help you
- What is a poster?
  - Academic posters
- Learning from what we know
- Constructing posters
- Questions
- Examples of posters
- Sum up and end of session



# The 'Digital' Writing Café

- Drop in (no booking!)
- 1pm 4pm Mon-Fri (Semester time)
- Via Zoom moving to in person
- Student writing mentors breakout rooms
- English as second language support on specific days.

www.plymouth.ac.uk/learn

Look out for these lanyards







## Where to find additional support

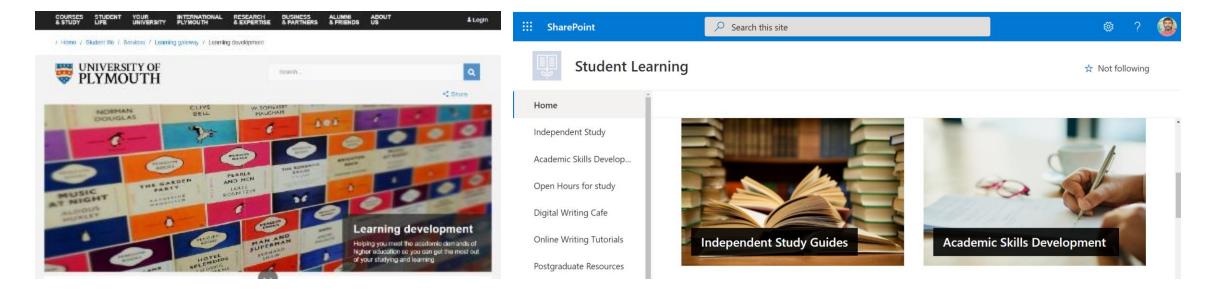
These are available throughout your University experience:

- Speak with an Advisor (Jason)
  - Bookable 30 min session individual or groups
- Study guides and digital resources (e.g. Help videos)
- Email: studentservices@plymouth.ac.uk
  - questions and advice
  - Contact the 01752 587676
  - or go to the Student Services Hub (Charles Seale-Hayne Library)





### Further details here:



<u>www.plymouth.ac.uk/learn</u> – External (anyone) <u>https://liveplymouthac.sharepoint.com/sites/x77</u> – Internal (Your UoP login)

# What is a poster?

Your thoughts



We all have an 'image' of what a poster might look like...

Some might NOT be suitable.



... perhaps it is not always as we imagine an academic poster would be.

Russell, S. (2008) 'Taking Stock of the World's Species [POSTER]', The Plymouth Student Scientist, 1(2), p. 354.





Wouldn't it be great if every animal and plant had an easy-to-read label, telling you to which species it belongs?



#### Introduction

by Samantha Russell

Scientias are recested in a given challegue of life a technologic of a receipt excry species on Earth. This ros or aims to provide an ownersky of DNA bareoding what is if there why is in our reserving.

#### A barcode for biodiversity

- A barando is a maditus readable digital tag that can identify items to a assis love of information 11.
- The internal DNA isotrophing is carried a short DNA sequence from a uniform locality on the genome re-
- Assign unknown individuals to species [2]
- Reward dimential and a necessities.



An apple may, (in addition to a task Indicating what sort of apple reis). have a major classification finals produce', a 'beat before' decramed a propriet code I'll.

The service impries with a be-

#### Short code

The segment of DNA that is rapidly gaining out once for "barracing". animal species is the first 608 DNA units of a sene called cyachrons co while I (0.07). The gate is one of the few that escape the shall it grafpric is material between general ional convent, belongs to the miredwards a, energy-procheing schunin ability all that are relicated solely from the mother



of those importion Based are of change.

COTteps the satisful because

- Basy to amplify:
- Low imagazing or had be

known of beautiful adult years

#### One gene fits all?

the cornel idea to "lea cooling" instands diretion, the east majority of DNA haraoding papers follow this amounts, in that COI, and only COI is used and analyzed through the Neighbour Jonana (N.I.method - whereby simple pairwise distances are interpreted through phenone destraing to produce the cisc term sentiment of species. dustan [3]

For the COI gape above may two have sufficient powers of discrimination for all animal groups; the effectiveness of DNA. baseding for identifying specimens to species tich atopical biotas is miknow i 4l.

#### Promises and pitfalls

Promise: A angle year is sequented for use as the borrode. To be used universally allowing standardization of protectly [5].

PM60 No single gene will work for all taxa. In thowering plants another. approach has been out forward, any the Statt Solot intergence spaces but it as addy, Kikie [5] sings act is finishiply generic local right formers only to account for the common hybridization and polyplaidy events in unguispends [6].

Promise: COI ballo de sequences differmuch more among that within species. Fig. Also rey on North American brok. 7]. revealed that all 200 species had unique CO7 be codes, with differences between species and safe frequents or average 18 tente mont common - tean, hasc.

EXEC Exaptors continuing some approves than diverged very recently. Stalator asilitation Assumpt in page eithe variative in regligible, erus bay beam then incorpositic values.



#### From Set Listping to discover cayput species [9]

Pattati: Cryptic groups identified ions are conjugate upon presentating. understanding of species are therefore not representative of the 90%. unfanown buodiversity [5].

Pomiss. A hand-hold baroder, soch as the one envisioned. here would make two oling thesises, laster and more wortable, providing many hearthy for science and society.

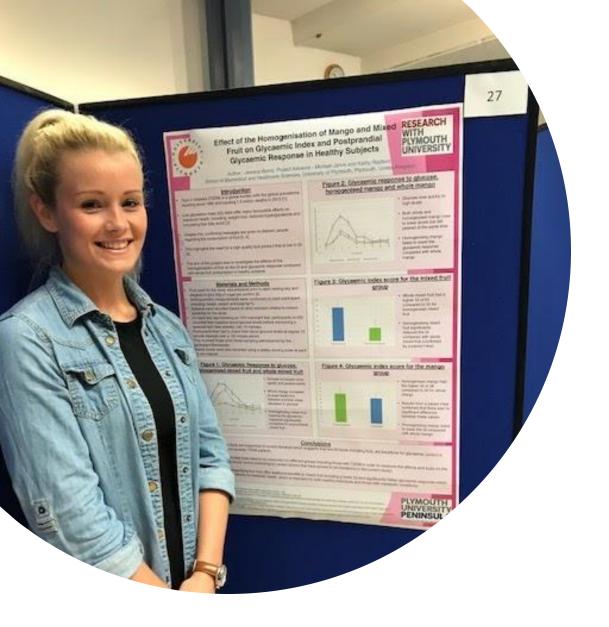
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Impactor's Silve Refer to debold sequences

#### Biodiversity isn't black and white

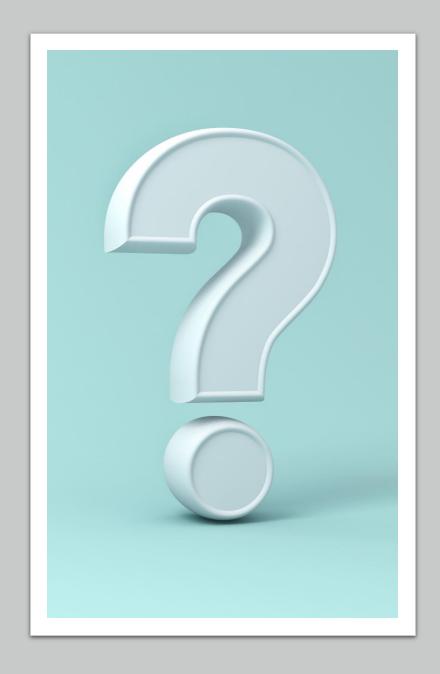
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- Earth is home to an enimited 10 million species of plants and an mais. Many doubt that a single gene can serve to define all species, or substitute for the pains aking such of month dogs and the year of training equius, for

As all and the product of the production of the



### SCIENTIFIC POSTER

- A large poster used to communicate research results at conferences
- Highly visual method of presentation
- Summarises key points briefly on a single page
- Can be used as a tool to initiate conversation or stand alone display
- Usually includes information on methods and outcomes, graphs and figures, are typically referenced.



# 'Abstract' texts are often good model for posters

- Very brief summary of a paper/research
- Usually around 500 words (essentially very short)
- Typically contains:
  - Very brief introduction of topic/aim
  - Most significant findings from the discussion
  - Summary of the 'main' conclusion of the paper



## Academic posters

- Typically, keep it 'visual' with less text
- Puts across the main points
  - Structured contains Introduction, methods, results and discussion
- '...show what we want to tell'

Rowe, N. (2017) *Academic & Scientific Poster Presentation: A Modern Comprehensive Guide*. Springer International Publishing.



# Before we go further

- Not everyone has experience of creating posters
  - Don't panic!
- Consider the 'context'
  - What is the audience and purpose?
  - Are there any specific rules? Assignment brief
- Use the Critical Thinking model
  - Good also for writing approach
- Looking at examples often helps (research)



# Assignment brief

Consider the requirements





## Assignment requirements:

see COMP1004 assignment brief for further details!

Create a poster illustrating the key features of your application and the architecture.

The presentation and poster should be pitched at an audience that is scientifically literate, but non-expert in this particular subject specialism.

#### You should communicate:

- What has been done so for the whole course of the project.
- A summary of project results/discussion





### Assignment requirements:

#### see COMP2003 assignment brief for further details!

You should ensure that the following team created items are complete in your GitHub repo and the poster submitted to the DLE submission point:

- a poster illustrating the key features of your application and the architecture.
- This must be uploaded to the Final Poster (Team) submission point.

#### Note: the poster is digital! JPG?

The poster should be pitched at an audience that is scientifically literate, but non-expert in this particular subject specialism:

#### It should communicate:

- The rationale for the project and the project aims (with any essential background information).
- What has been done over the course of the project.
- A summary of project results/discussion.
- The main project conclusions.





## Assignment requirements summary

- Title something that reflects your project vision
- Your project vision What is it? What is the problem it will solve?
- Provides a glimpse into the technology Why or How it tackles the problem?
- Image format
  - Do you need to convert it to JPG file format



# Let's look at typical poster structure

This will helps you to be, selective, purposeful and critical of texts





# Components of an academic poster

Also good for the basic structure of reports of essays!

**Title**: A typical poster

Your name – might included institution / company etc

Introduction

**Discussion** 

**Conclusions** 

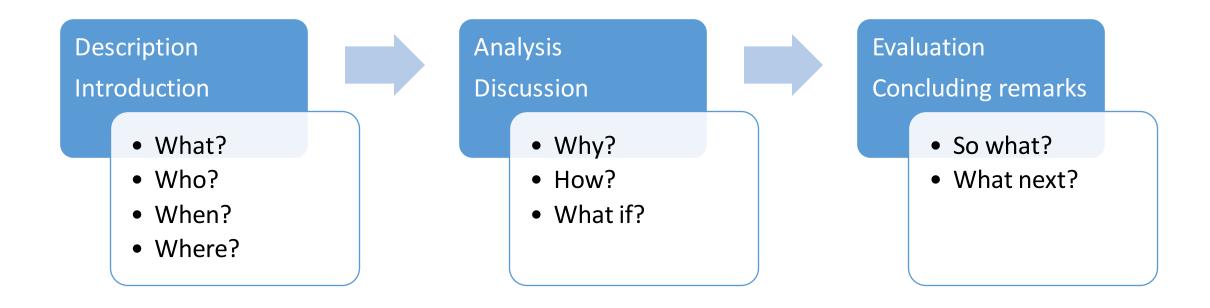
References





# Critical thinking for posters 'Every' main point/argument/claim...

Uses this approach



# Look for key characteristic for posters: description, analysis and evaluation

# Abstract 'Like'

#### Introduction - Description

- Introductory phrases outlines aims of project and or problem/s to solve
- Highlighting and stating facts (might be supported by references)

#### Discussion points - Analysis

- Often referred to as 'critical analysis' (might be supported by references)
- Asking questions
- Compare and contrast how and why it works or is better. How it solves the problem

#### Conclusions – Evaluation (a summary)

- Often referred to as 'critical evaluation' (not typically supported by references)
- Summary of main findings (only after analysis)
- Final remarks
- Concluding remarks
- Future work



## Describe, Analyse and Evaluate

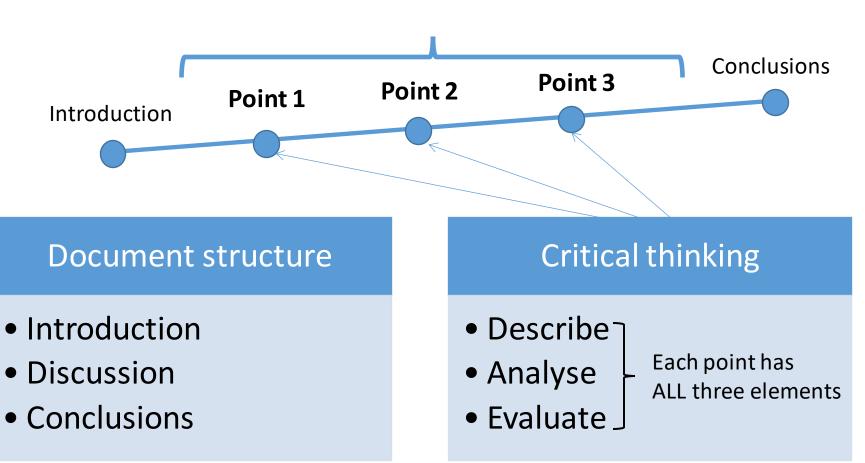
Looking at agile software development processes (ASDP) for any software company,...it is particularly important to consider ... (Peters, 2016). According to Matthew (2015) this should always... Certainly Peters (2016) gives effective approaches for usability improvements... [text removed]

**However**, looking first at...there are concerns that poor ASDP practices can lead to..., therefore...(Harrison, 2016). Certainly, ASDP need proper implementation, to ensure... as also suggest by Adams (2006). Although, **one major drawback** of this approach is that... (Peters, 2016). Therefore, in order to ensure that the outcome is favourable..., a new approach was introduced to counteract these issues... Brian (2016) provides a solution whereby ASDP was are able to... **In contrast** others were not able to implement a new structure, due to the constraints...that Jacobs (2017)...

**Having considered** all the important issues associated with ASDP in..., there is clear evidence that more needs to be done..., particularly... Making these changes would not only improve software usability, but also.... These were clearly proven in a number of cases and situations, particularly... Therefore, it is recommended that...

# Writing structure, flow – visual comparison

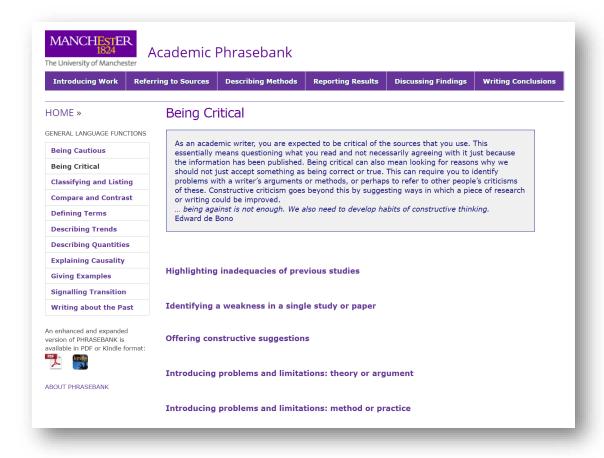
Discussion







# Critical language



The Manchester Phrase Bank:

www.phrasebank.manchester.ac.uk/being-critical/







# Sizes for posters

- A0 841 x 1189 mm
- A1 594 x 841 mm
- A2 420 x 594 mm
- A3 297 x 420 mm
- A4 210 x 297 mm
- A5 148 x 210 mm

Consider sizes
based on
whether you are
printing on paper
and/or digital

- Top two are most commonly used
- Either in landscape or portrait
- A1 is the most common, so consider this as your first option.
- As digital software allows scaling (plus the ratios are the same), it is often easier to create an A0 but print it to A1 or less.
- N.B. A4 to A0 is a bad idea, unless you use vector graphics!!!

# Title: A typical poster

Your name – institution / company etc

Introduction

**Discussion** 

Conclusions

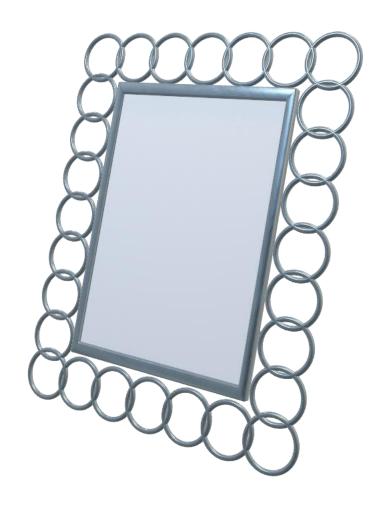
References





# What about images?

- Images for the sake of images?
  - They have to be meaningful
    - Consider the theme of your project
    - How connects ideas?
- Types of images?
- Royalty free images
  - free images = used many times already?
  - unsplash.com
- Consider taking your own photos
  - Screen shots



# Visual impact...

Good posters have visual impact

# Quick look at options

**PowerPoint** 





# Questions so far



# Posters for discussion

Research!







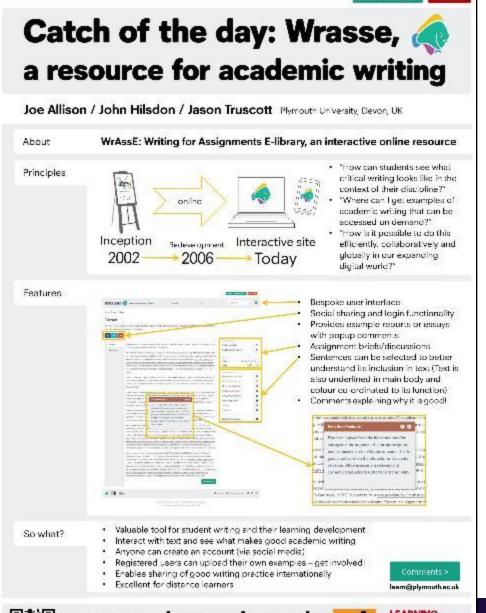
# Critical synopsis\*

- 1. Why am I reading this?
- 2. What are the author trying to achieve?
- 3. What are the author saying that is relevant?
- 4. How convincing is the author?
- 5. Visually stimulating?
- 6. Conclusion, did I learn anything new?
- 7. Does it work as a poster?

<sup>\*</sup>A critical synopsis is a condensed 'critique' of what is known.

### Posters for academia

- Example poster created by me for a conference a few years back.
  - Has a computing theme
  - Highlighting software
  - Reasonable balance of text and imagery?
  - Clearly more focused to marketing the software





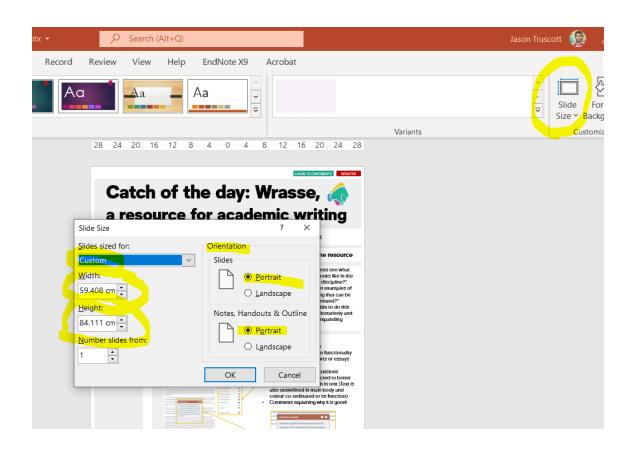








# About Jason's poster construction



- Note in screen capture is set to A1 on my poster:
- A0 841 x 1189 mm
- A1 594 x 841 mm
- Deliberately set as A1 it was the maximum I would ever need.
- Later printed off A3 and A4 handouts. As ratios of the paper are identical!



### Posters for academia

- This is a poster from 2008
- Created by a student
- Hosted on 'The Plymouth Student Scientist Journal' website https://pearl.plymouth.ac.uk/handle /10026.1/13821
- Text rich, but with complimentary imagery

Russell, S. (2008) 'Taking Stock of the World's Species [POSTER]', The Plymouth Student Scientist, 1(2), p. 354.



Wouldn't it be great if every animal and plant had an easy-to-read label, telling you to which species it belongs?



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# Getting a 'sense' of how others view posters

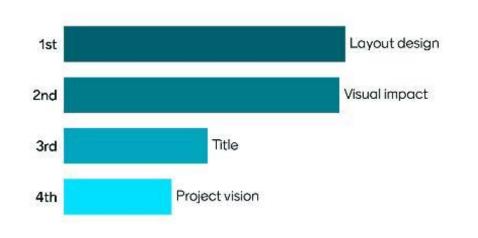
The academic writing/content is VERY important – However poster creation can be 'subjective' and visual impact can also play a part in how effective your poster is to other viewers at a conference





# Example posters from others, with rankings

#### Rank in order - what impressed you - example 1



Consider (from a 'viewers' perspective):

- Layout design
- 2. Visual impact
- 3. Title
- 4. Project vision

• N.B. PLUS keep to your brief!





http://web.socem. plymouth.ac.uk/sec am/public/cgd.php

# Direct link - Priest

http://web.socem.ply mouth.ac.uk/secam/a ssets/posters/105527 87.png

# DEEP SPACE DILEMMA

COOP VIRTUAL REALITY SHOOTER



## GAMEPLAY

STRANDED ON A SPACE STATION CONTROLLED BY HOSTILE ROBOTS YOU MUST WORK WITH YOUR TEAM TO COMPLETE YOU MISSION AND ESCAPE.

Fight your way through the game with up to 4 other players as your team works to recover the central databank. Along the way, you will be faced with a series of tasks which must be completed in order to reach your goal. A range of weaponry is available to help battle the droids.

You will need to work tegether if you want to succeed but beware, one of you may not be who they seem - a saboteur!

Inspired by games such as Battlestar Galactica board game, Werewolf, Among Us and Trouble in Terrorist Town.



## **IMMERSION**

FOCUSING ON IMMERSION, DEEP SPACE DILEMMA WILL NOT DISTANCE YOU FROM THE ENVIRONMENT WITH THE USE OF A CUSTOM MENU MADE FOR VR.

Using a unique menu and lobby map to reduce the usage of menus, players remain immersed even while waiting for others to join. Using the menu map, locate your friends in your adventure or find a group using the matchmaker facility.

As you navigate your way through the derelist space station, your tasks will require you to interact with your surroundings so be sure to keep an eye out for important items.



## **TECHNOLOGY**

BUILT FROM THE GROUND UP TO ENSURE THAT THE IMMERSION IS NEVER BROKEN

Created using the Unity game engine and using its XR toolkit to provide VR tracking and controls which allow the player to navigate and interact with the space station.

Utilizing Photon Unity Network to create the multiplayer network including matchmaking and synchronising the players to each other. By using Photon, players can join specific games using uniquely generated codes as well as random games through the usage of the custom consules found within the game.

Connor Priest

Connor.Priest@objectivecomplete.net www.objectivecomplete.net BSc(hons) Computing & Games Development 2020





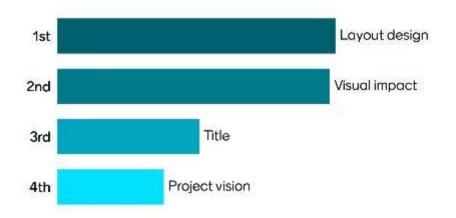


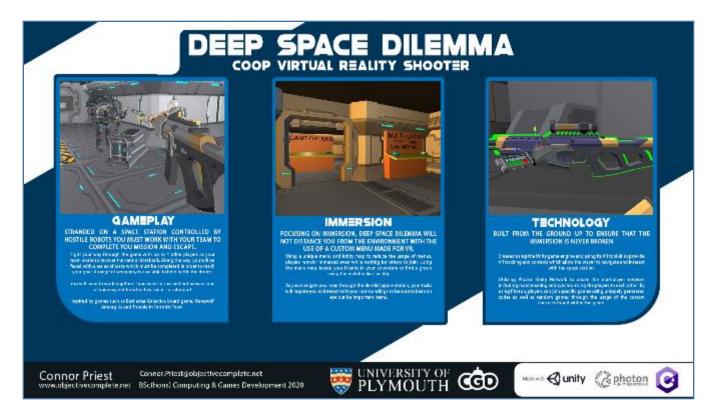




# How did it rank? Results from students

# Rank in order - what impressed you - example 1









http://web.socem.plymouth.ac.u k/secam/public/compsci.php

# <u>Direct link - Broughton</u>

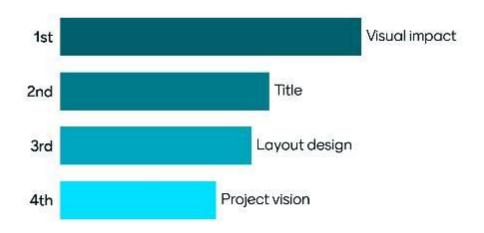
http://web.socem.plym outh.ac.uk/secam/asset s/posters/10548629.pdf





# How did it rank? Results from students

Rank in order - what impressed you - example 2





Stay connected on a night out



http://web.soc em.plymouth.a c.uk/secam/pu blic/cis.php

# <u>Direct link -</u> Carthew

http://web.soce m.plymouth.ac. uk/secam/asset s/posters/10552 471.jpg



# FaceLock

# Facial recognition door locking system

Alexander Carthew alexander.carthew@students.plymouth.ac.uk BSc Computer and Information Security



## Background and Motivation

- The door look market is currently very small and largely based on traditional look and key methods
- With the ever increasing Internet of Things market FaceLock takes a different approach.
- We use facial recognition to help make unlocking your door a seamless process, while implementing other security measures such as logging on a front end web page.
- Whether used domestically or commercially there is an aspect of FaceLock that will improve your day to day life

## Front End

- FaceLock uses an Angular front and to produce a sleek easy to navigate wab page that displays statistics about who and when your door has been accessed.
- FaceLook takes full advantage of bootstrap to produce a scalable application that will function efficiently on many different devices such as:
- iPad:
- iPhone
- Desktop
- · Android
- The deahboard tab provides you with a cuick overview of your system and showe you a graph of how many times each user has accessed your door.
- The Users fab shows you a table of the current users other than yourself that you allow access to your door. From this page you are able to add a new user or delete a current user meaning they will no longer have access to the door.
- The livestream tab shows the live view from your door. This is perfect for seeing who is at your door when you might be out of the house.
- The twitter tab shows a timeline of FaceLocks twitter page.
- The upload tab allows the user to upload an image of themselves that the facial recognition system will use to recognise your face



Users can add or remove access privileges from this page.



Dashboard page showing users statistics and lags.



The facial recognition system recognising me as a user



This page shows a livestream of the users door

## Back End

## Web Page

The FaceLock webpage uses a MEAN stack, therefore incorporates a Mongoose database, express server and Node.js

- MongoDB a no SQL database program that uses JSCN-like documents and is used for storing the information about users and their logs.
- Express a modular web application framework for node, is that is used to host the database and allow external connections
- Node.js the application runtime that the MEAN stack runs on

## Door Lock

The Door Looking system runs on a separate Linux machine which for demonstration purposes is my leptop. This Linux machine uses a wrote range of technologies to perform the door looks functions.

- Python This is used to perform the majority of the functionality. Using the Face\_recognition library to perform the facial recognition and the pymongo library to perform database sections.
- PHP This is used to accept incoming httprequests from the web page in this case receiving the images to be used in the facial recognition.
- WebRTC I use this technology to provide the web page with a live feed from the webcam on my landon

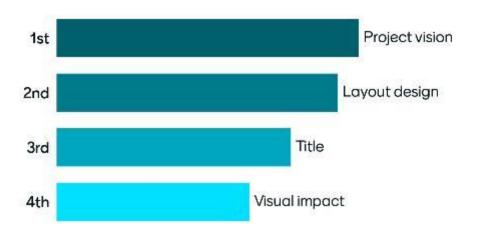
### Conclusio

I am thrilled with how FaceLock turned out.
While currently only offering some of the features I know are possible, with some more time and work I could make this into a commercially available door locking system, that could have further logging and batter security measures.



# How did it rank? Results from students

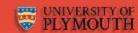
# Rank in order - what impressed you - example 3



## FaceLock

## Facial recognition door locking system

Alexander Carthew – alexander carthew@students.plyanouth.co.ul. 58c Computer and Information Security



## Bacaground and Mutivation

- The char lock market is currently very small and argety based on traditional lock and key methods
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## Front 3nd

- Facet occurres an <u>Angular</u> front and to produce a size clearly to randgate web page that displays statistics about who and when your door has been expressed.
- FaceLock takes full advantage of conferracito produce a sea able application that will function altogeths on many different peaces, auctions
- IPad
- iPronu
   Heektop
- Antimid
- The deshoot of lab provides you with a quick overties or your replient end states, you is graph of bow many times each user has accessed your door.
- The Using fab shows you a label of the coment users other than you'relf that you allow access to you note. From the page you are able to add a now user or oblete a current user meaning they will no temper have access to the otter.
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Dans can add in remove access divideges from this sage.



Daschoord page showing users statistics and logs.



The fact the contraction are not as a second



This tage at own a literature to of the linear date.

## Back End

### Web Pa

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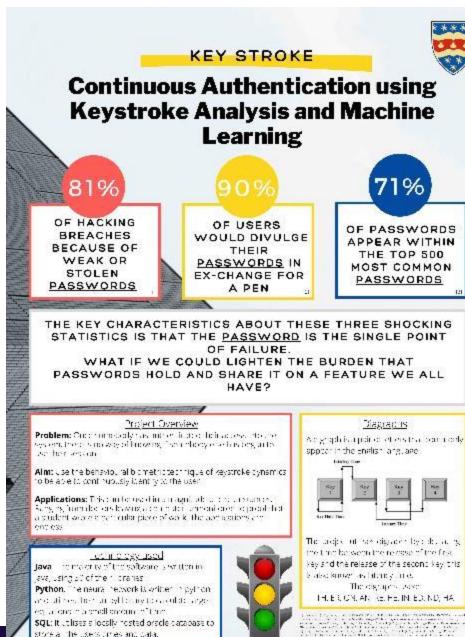
am Indied with flow Facabook surred out.
White contently only offering some of the leafness I know are possible, with some more dire and work I could make this into a commercially available door techniques vaction, that could have further tagging and baller security measures.



http://web.socem.plymouth.ac.uk
/secam/public/cis.php

Direct link - Walters

http://web.socem.plym outh.ac.uk/secam/asset s/posters/10579652.jpg

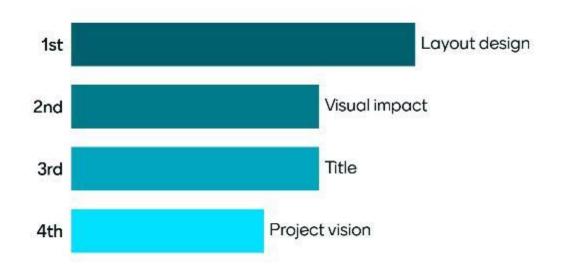






# How did it rank? Results from students

Rank in order - what impressed you - example 4





# Continuous Authentication using Keystroke Analysis and Machine Learning

81%

OF HACKING BREACHES BECAUSE OF WEAK OR STOLEN PASSWORDS 90%

OF USERS
WOULD DIVULGE
THEIR
PASSWORDS IN
EX-CHANGE FOR
A PEN

71%

OF PASSWORDS APPEAR WITHIN THE TOP 500 MOST COMMON PASSWORDS

THE KEY CHARACTERISTICS ABOUT THESE THREE SHOCKING STATISTICS IS THAT THE <u>PASSWORD</u> IS THE SINGLE POINT OF FAILURE.

WHAT IF WE COULD LIGHTEN THE BURDEN THAT PASSWORDS HOLD AND SHARE IT ON A FEATURE WE ALL HAVE?

## Project Overview

**Problem:** Once composedly risk into emit about heir across into the seasons there is no way of browing. Example by each his long articles they season.

Almouse the behavioural bid metric technique of keystroke dynamics to be able to continuously identify to the user.

**Applications:** Prists in torus d in a magnitude of the anstainer. Sanying from for cashswing a to under turn annual coefficies of product a student was a sense of reular piece of work, the populations of the confessions.

# Ad graph is a point of the strategraph and special cody appear in the english language. See that the strategraph and see the

Diagraphs

The project of the edge acre by edge, acre, the time between the release of the first key and the release of the second key this brakes known as bilding an e.

The digraphs used: THLER CN, AND RELIES INCEDING, HA

Joseph C. C. Control of the Control

## ethic egy used

**Java** The moler tylef the software is written in lava, using 50 of the niteraines.

**Python.** The neutral necessitis written in python and utilines, because yill be my to calculate larger equations of a small amount of time.

**SQL**: it utilises a locally nosted practe datapase to store at the users times and data.











# Summing up





# Suggestions to develop good posters

- Do some research look at examples from others
  - What really stood out for you?
- Plan your content
  - Ensure you keep to the criteria of the assignment brief
  - Keep the posters simple and easy on the eye
- Ask others their opinion
  - Also ask others, to give constructive feedback!
    - Perhaps visit the Writing Café or book to see me for a chat!
  - Just saying "I don't like it" is not constructive
    - Offer 'suggestions' for improvements

Putting your poster to the test - can anybody understand:
What your project is about?
How you are putting your software together?





# PLUS 'Win a prize feedback' for Jason's session

• The **Student Services** feedback form:

bit.ly/3mQO9ox

Select option: 'Learning Development'



Every response – we send a donation to the 'War Child charity'
PLUS you get entered into a prize draw (you need to provide your email address for the draw).





# Feedback on Jason's workshop

tell us what you think...

bit.ly/394fLnG

Enter in Web browser



Questions?

