FUTURE DIALOGUES

Whose voice will control the future?

2018

DJCAD, University of Dundee

Gary Gowans, Tommy Perman, Martin Skelly

TODAY

- 1. Introductions
- 2. Project Process
- 3. Forming Teams

- 4. Mozilla Open IoT Studio + The Brief
- 5. Research Brief + Icebreaker Task

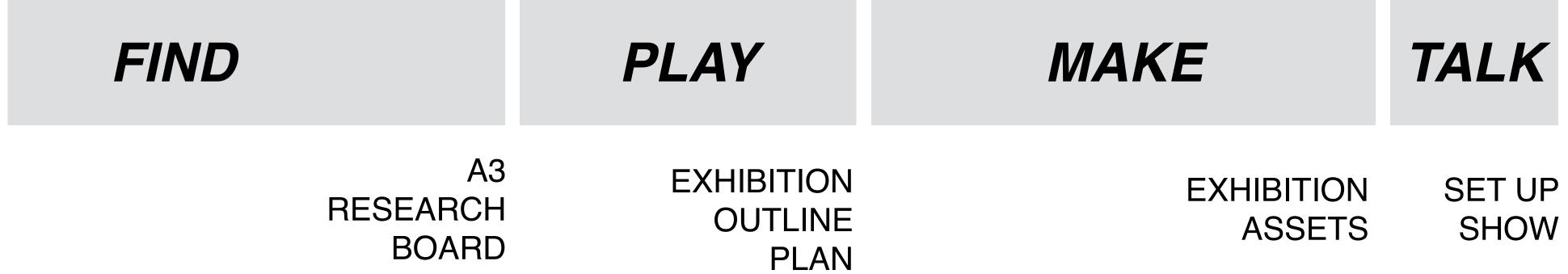






TIMETABLE

WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
w/c 15/01/16	w/c 22/01/16	W/c 29/01/16	w/c 05/02/16	w/c 12/02/16	w/c 19/02/16	w/c 26/02/16	w/c 05/03/16	w/c 12/03/16	w/c 19/03/16	w/c 26/03/16



LECTURE ROOMS

ASSESSMENT

https://learningspaces.dundee.ac.uk/future-dialogues

LAST YEARS WORK

Team Polaroid

Illustration Monica Kurrikoff

Product Design Lewis Milligan

Molly McKinnon Kirsty Merrick

Graphic Design Ryan McKnight



Team Polaroid 2017 - 2017



Photographic Intelligence Nerve

The PIN Camera

The Camera



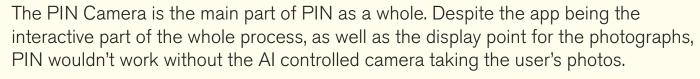












Our concept for the camera started with taking inspiration from organic shapes, this eventually led to the development of our logo, in which we took the final form for PIN. The front is laser cut clear acrylic and 3mm ply, the reason behind the material choice is to ensure the body of the PIN was uniform, whilst allowing us to store all the electrical components inside. We had initially decided to use a micro Arduino and a Neopixel to simulate the notification you would receive from the pin, due to complications this was soon changed to an Arduino uno. Due to us removing the Arduino mini from the pin it allowed us to slim line the pin further than we already had, creating a sleek solid design we were truly proud of.







Packaging



We decided to create packaging for the camera to show how it would potentially be sold. We made a box and charging port for the PIN and we also designed a sleeve to fit around the box which displayed the necessary information to sell the camera as well as some info about the App.









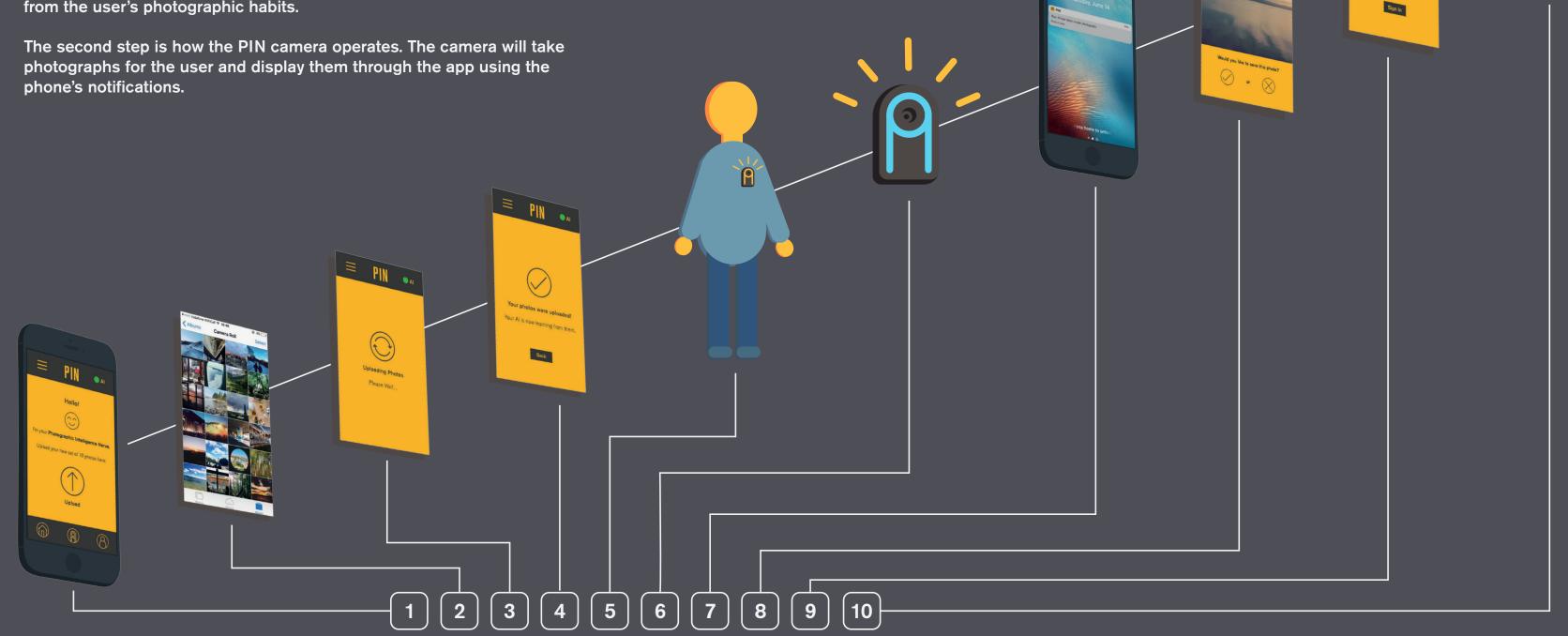


PIN Photographic Intelligence Nerve



There are 2 integral parts of the PIN process. This is because PIN is both an app and a camera. In order to use PIN, the user will require both of these and also a PIN social profile.

The first step is uploading a series of 10 photographs in order for the AI to learn from the user's photographic habits.



- 1. The user will press the upload icon.
- 2. This will then open the phone's camera roll and prompt the user to choose 10 photos to upload.
- 3. The app will then present a loading page as the photos upload.
- 4. The app will finally present an uploaded icon telling the user that the photos have been uploaded for the Al opportunity, it will flash yellow and take a photograph. to learn from.
- 5. As the user walks around, the PIN camera will be looking for photographic opportunities based on what it has learned from the uploaded photos.
- 6. When the PIN camera spots a photographic
- 7. The PIN camera will then flash blue. A notification will then appear on the user's phone, indicating that a new photograph or a series of photographs has been taken, depending on the user's notification settings.
- 8. Pressing the notification will then take the user to the PIN app where they will be prompted to save or delete the new photo.

Sign in

- 9. The delete icon will be displayed
- 8. The saved icon will be displayed if the user decided to save the photo.







Terms & Conditions

PIN Service Agreement

"PIN" stands for Photographic Intelligence Nerve. This includes a small camera which is worn by users. It also includes digital content, software, the PIN app, support and other related services.

"PIN enabled product" means any product or application that enables access to PIN such as the PIN app.

"PIN App" means the companion app provided by PIN. This provides access to PIN settings, PIN related content and other information.

Artificial Intelligence Terms & Conditions



- I am an artificial intelligence here to help you take photographs.
 I cannot recognise facial features so I won't be able to take photographs of human beings.
 Please do not use me for any unlawful/illegal purposes, thanks.
 I do not need to know any private details from you or other PIN users so keep them to yourself.
 I am not responsible for your PIN profile, I am only here to assist you through photography.
 If I catch you bullying your account will be suspended.
 I am the only AI on this application so keep fake/spam accounts at bay.
 Please do not interfere with my services as this will cause problems with our social network.
 You agree to let my app learn from you with the use of my algorithm. I will recognise photographic opportunities based on what I learn from the photos you upload through the PIN app.

Thank you & I hope you enjoy using PIN!



Capture the future.

Branding

The PIN Brand

With our idea being based around Artificial Intelligence, we felt it was necessary to create a brand and a campaign that reflects the future. With the mixture of yellow, being associated with happiness, joy and intellect, and black, a sense of power, elegance and formality, we aimed to design a brand that made itself stand out from the crowd. Our logo is based on a fingerprint with a camera in the centre. This is intended to represent human's and Al as one.

Final Logo Mark





Colour Palette



Brand Exploration





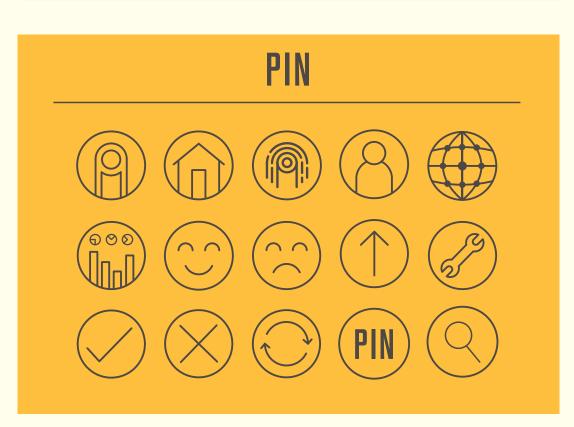






We decided to go with a yellow and black colour palette as we felt it helped us design a colourful and memorable brand. The yellow featured throughout our various campaign pieces mixed with the bold black typography or vice versa helped us create a bold image for PIN. Our main colour duo was the 122 U with the neutral black U, however for some pieces we used alternative pantone colours. In the App we also brought in some greys and lighter black pantones to add a bit of variety.

App Icons



Brand Slogan

Capture the future.

Capture the future.

Capture the future.

Typeface

Akzidenz-Grotesk Pro Light

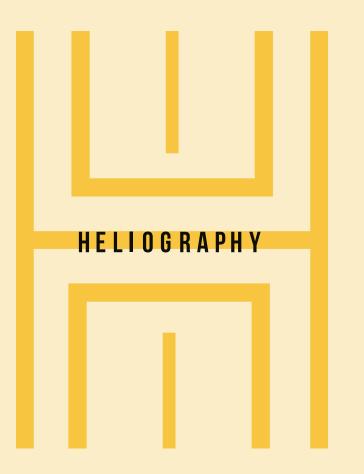
Akzidenz-Grotesk Pro Light Italic

Akzidenz-Grotesk Pro Medium Italic

Akzidenz-Grotesk Pro Condensed Italic

Akzidenz-Grotesk Pro Medium Condensed Italic

PIN

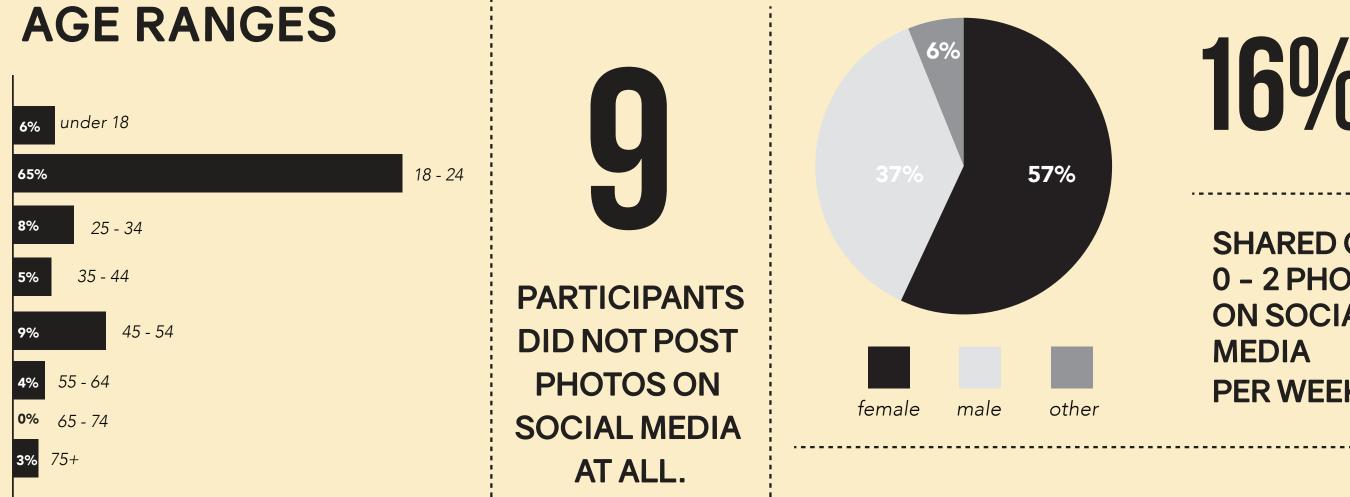


HELIOGRAPHY

fotoctrl for the second second

Survey Stats

participants



OF PARTICIPANTS DID NOT ENFORCE PRIVACY AT ALL. **SHARED ONLY** 0 - 2 PHOTOS **ON SOCIAL** PER WEEK.



WHAT WAS USED TO TAKE PHOTOS?

MOBILE DIGITAL FILM PHONE CAMERA CAMERA

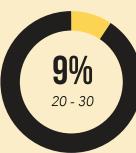
POPULAR PHOTO SUBJECTS

......

LANDSCAPES FRIENDS PETS MEMORIES NATURE HOLIDAYS SPORT PORTRAITURE SELFIES FOOD EVENTS SUNSETS ARTWORK **PROJECT WORK NIGHTS OUT** CITIES **GYM** OCCASSIONS WILDLIFE ARCHITECTURE

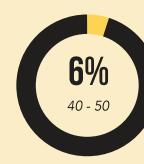
WHICH AGE GROUP WAS THOUGHT TO BE THE LEAST CAUTIOUS ONLINE?

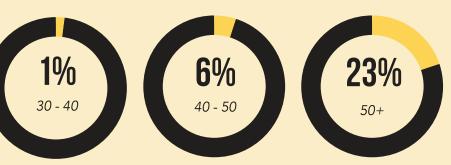






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WHERE ARE PHOTOS STORED?

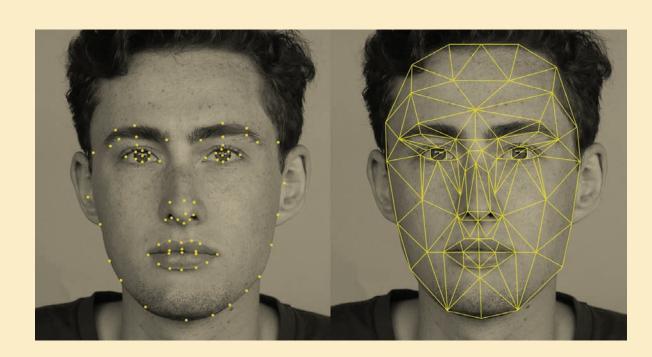
PHONE · CLOUD PRINTED - ALBUMS





Desk Research

A Look at How Snapchat's Powerful Facial Recognition Tech Works



ASSOCIATED PRESS SETTLES COPYRIGHT LAWSUIT AGAINST OBAMA 'HOPE' ARTIST





For our research, we looked into aspects such as how facial recognition works, image copyright cases and the way in which other security apps & services branded themselves.

RESEARCH



name

fotoctrl



fotoctrl



fotoctrl fotoctrl

BRANDING



font: Gravity

Ab

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 2 3 4 5 6 7 8 9 0

Ab

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 2 3 4 5 6 7 8 9 0

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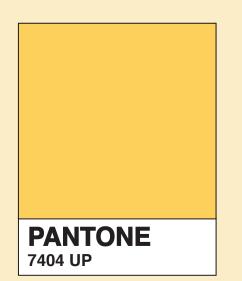
a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

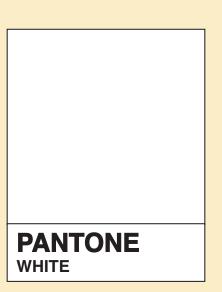
1 2 3 4 5 6 7 8 9 0

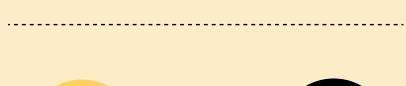
colour

.....









logo

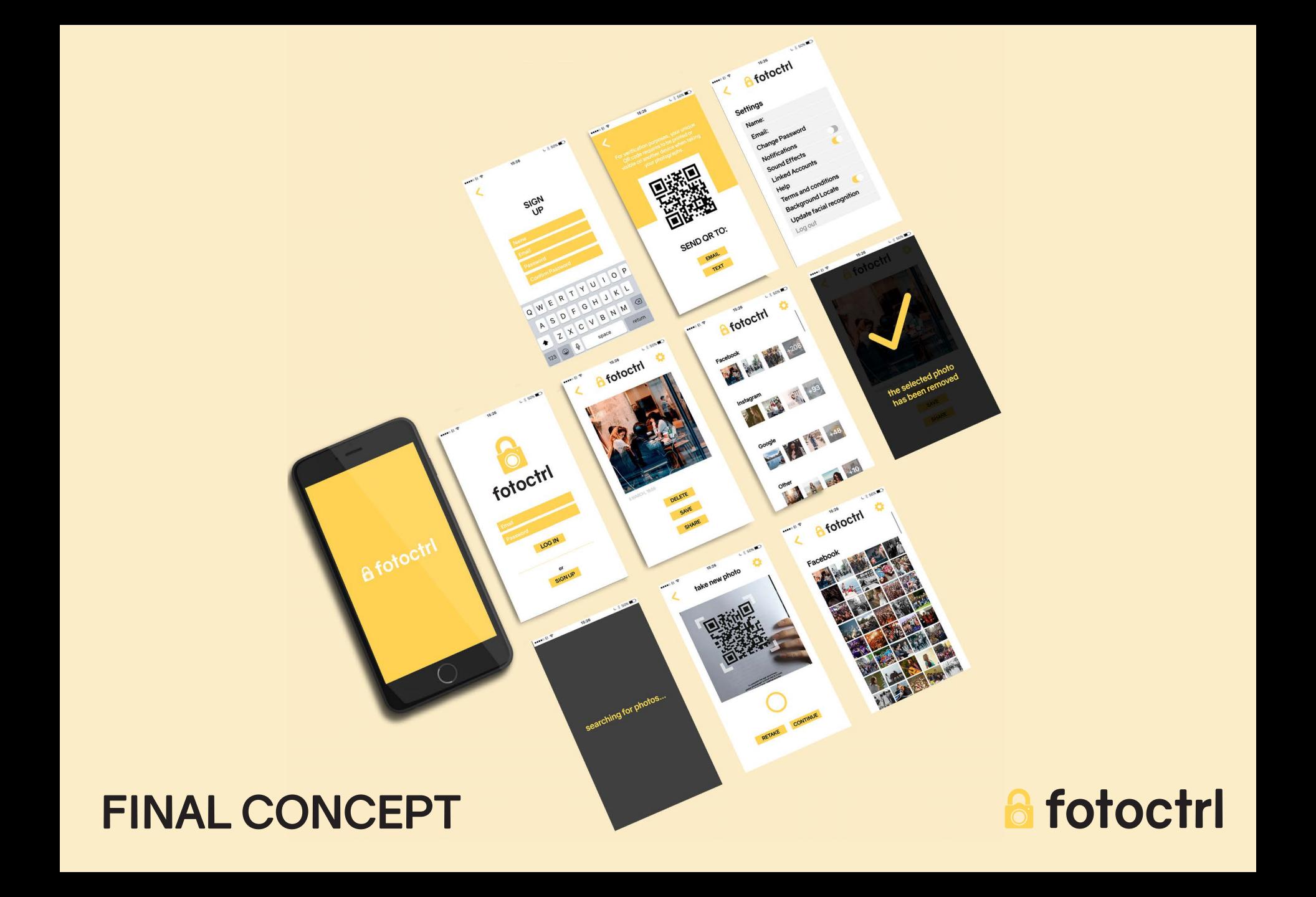




logo B

BRANDING





DAGUERREOTYPE

GRAPHIC DESIGN

Rachael Hastie

Patrick Hughes

ILLUSTRATION

Steven Harper

Lizzy Holden

PRODUCT DEISGN

Lauren Johnson

Ryan Kelly



Latin:

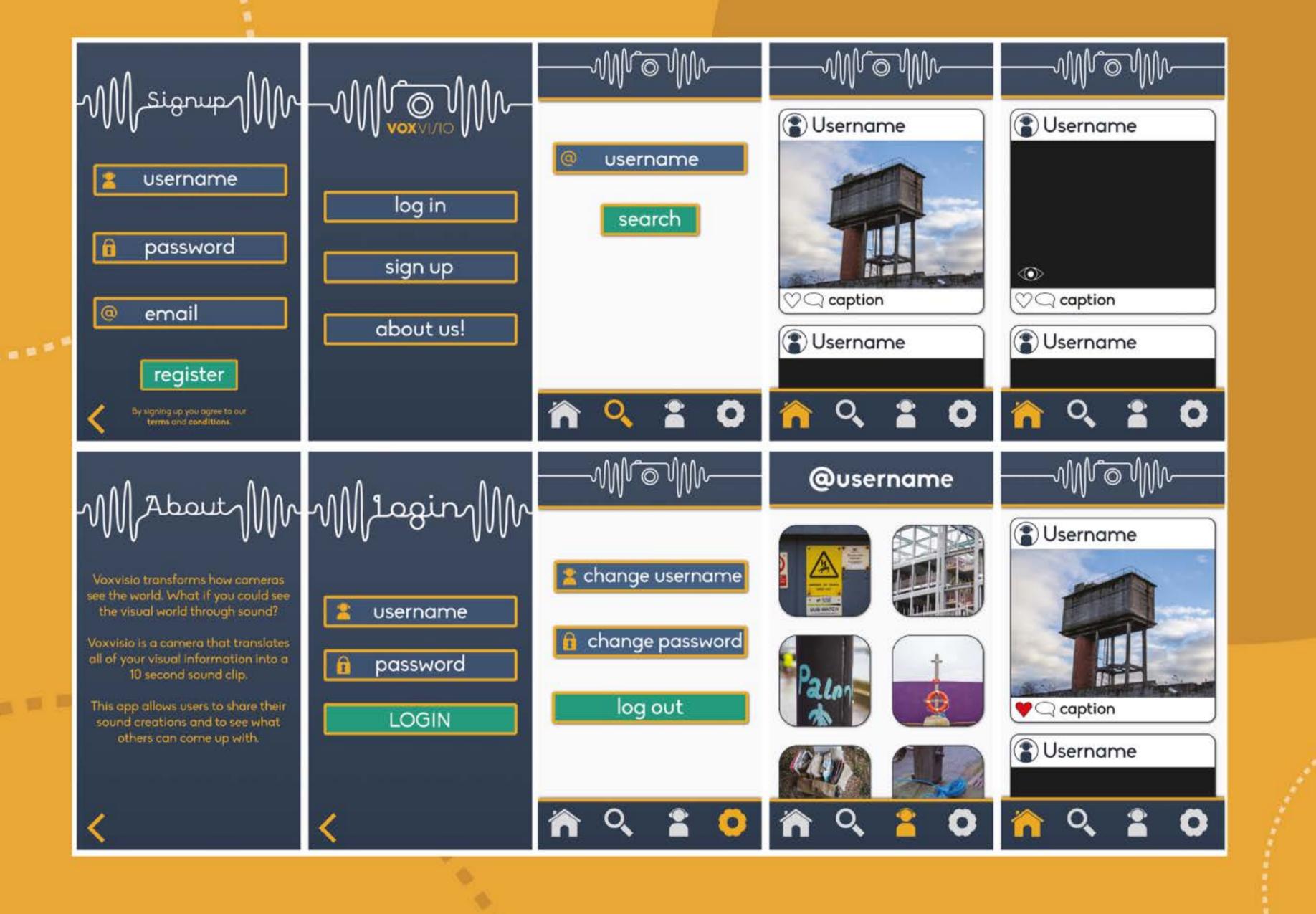
VOX VISION







Final model



Final Product

e.motion

clarity through colour

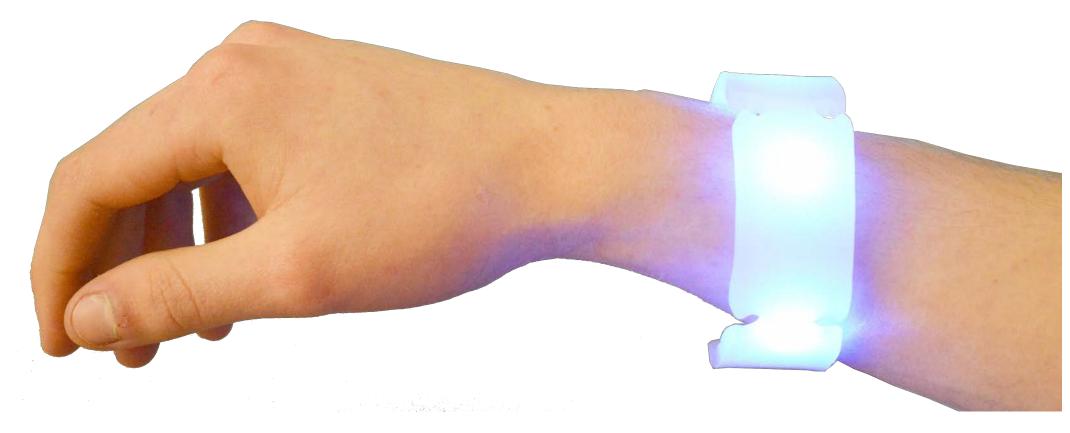






E.motion is a small, clip on camera that detects emotions of those interacting with the user using facial recognition, and translates these emotions into a colour on a wearable device worn by the user. The purpose is to create an aid for those who would otherwise struggle in social situations.

clarity through colour



Research





'The Unselfie', a project by Alec Soth, in which he photographed himself in unusual settings, is less about realism and documentation, and more about image creation and expression.

We also looked at projects that portrayed the false identity that social media (specifically Instagram) creates, and that they're only fragments of a much bigger picture.

The 'Self Reflector' mirror harnesses facial recognition technology we're interested in exploring further, something we can also explore memories. through sites such as how-old.net.

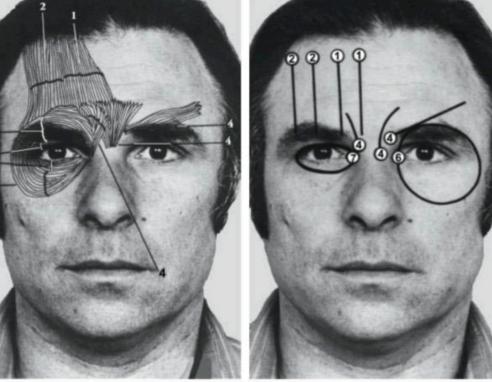
Our targeted market is those who struggle with emotions through facial expressions comes from reading emotions and social situations, such as those on the autism spectrum. We did research into this and found the universal logo for autism is a jigsaw piece, which we incorporated into our design.











We've investigated current products, such as the We're interested in using technology that already Apple Watch, that use technology that gathers signals from your body to determine your current state of being. This technology has also been used in apps, such as Oovoo, a social media app that reads facial expressions to determine emotion, and corporate gain. Vokaturi, which uses voice recognition to similarly detect the user's mood.

We looked briefly at neurodegenerative diseases when considering preserving emotions and

Much of what we currently know about reading the research of Dr. Paul Ekman, an American Psychologist who specialises in research that dictates the specific biological correlations of specific emotions, which demonstrate the universality of human emotion.

Revealed: how facial recognition has invaded shops - and your privacy

etailers are increasingly using facial recognition technology to track your face.

Security Cameras with Facial Recognition: A Game-Changing Technology for Retailers

Retail security systems with facial-recognition technology are becoming more



Almost 30% of retailers use facial recognition technology to track consumers in store

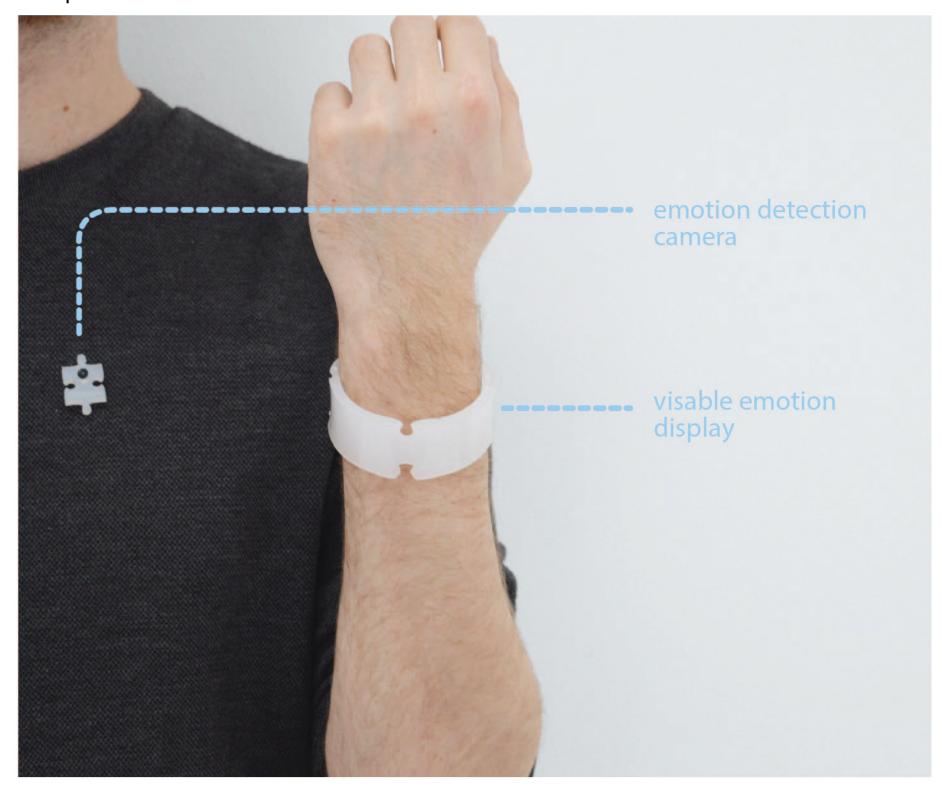
Media & Tech Network Digital business

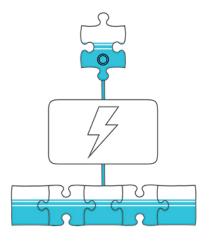
Facial recognition - a powerful ad tool or privacy nightmare?

It may sound like science fiction but tech that identifies VIP shoppers could soon be used for customer loyalty schemes

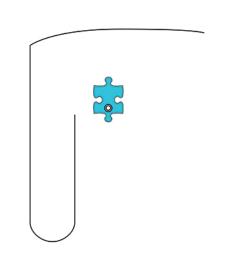
exists. Facial and emotion reading technology is widely used by retailers for market research. We wanted to use this technology for something that could really help people, rather than something for

Exploded View and Process

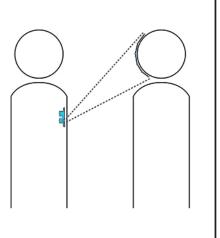




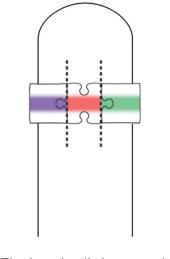
 Ensure both the camera and band are both fully charged before attaching them.



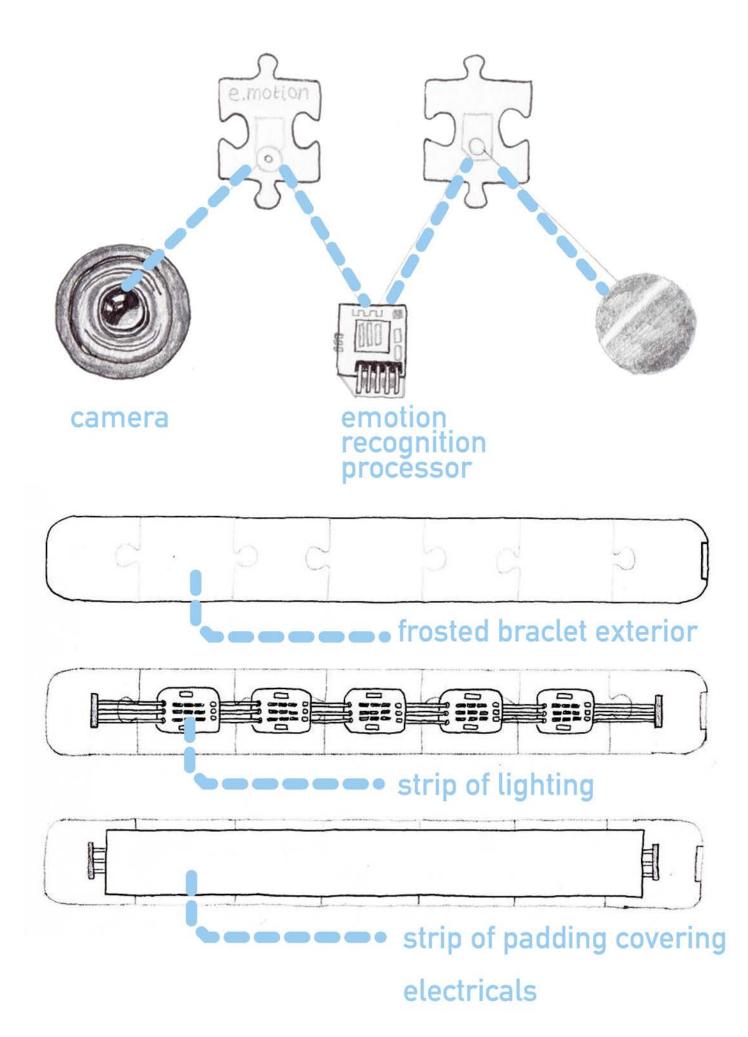
2. Make sure the camera is outward facing and the correct way up.



Allow atleast a few seconds for the camera to properly interpret facial expressions



4. The band will change colour in correspondance to the person opposite's expression



Branding of Concept

We decided on the name E.motion, as we wanted something that described our product well and was straight to the point. We then worked on our advertising campaign, conceptualising where the product would be advertised to the public, for example in medical centres and waiting rooms.

We wanted poster designs that really showcased the coloured light feature of our product, which is the key element of our design. We kept the images clean and simple, while making sure to use eyecatching photography. Though our item is a medial aid, we wanted to show that these types of products can still be exciting and engaging.

Our video uses simple imagery and a clear voiceover describing our product. Keeping the simplicity consistent throughout our campaign and allowing the strength of our design to speak for itself.







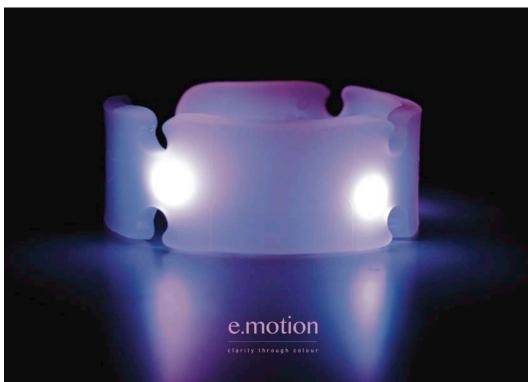


Khemer MN

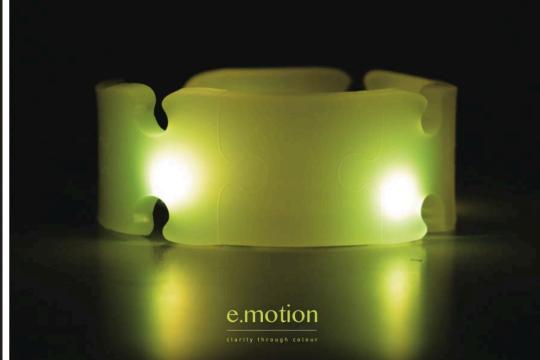
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

DIN Alternate Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz















TEAMWORKING

FORMING GROUPS



https://www.mozilla.org/en-US/about/manifesto/



moz://a

Mobile Desktop Extensions Support Blog

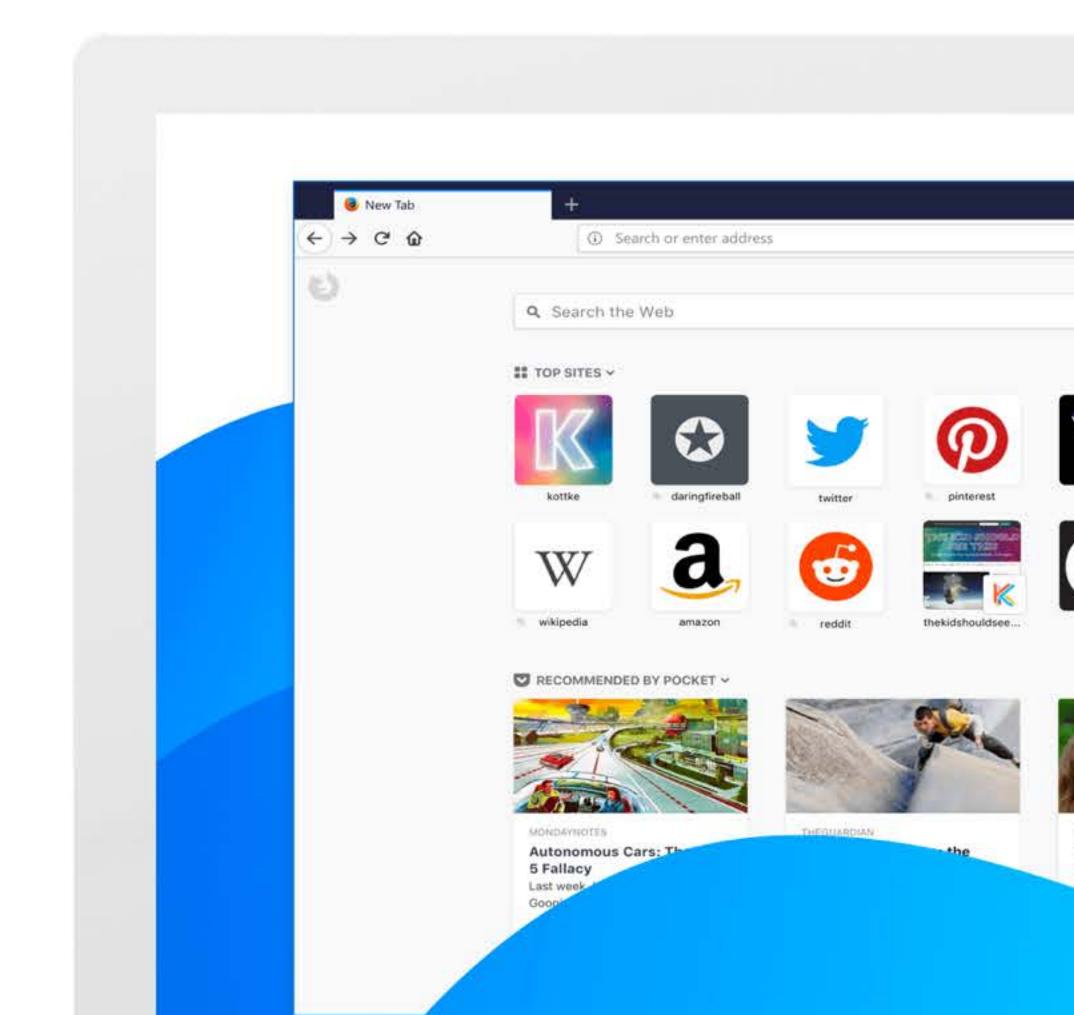


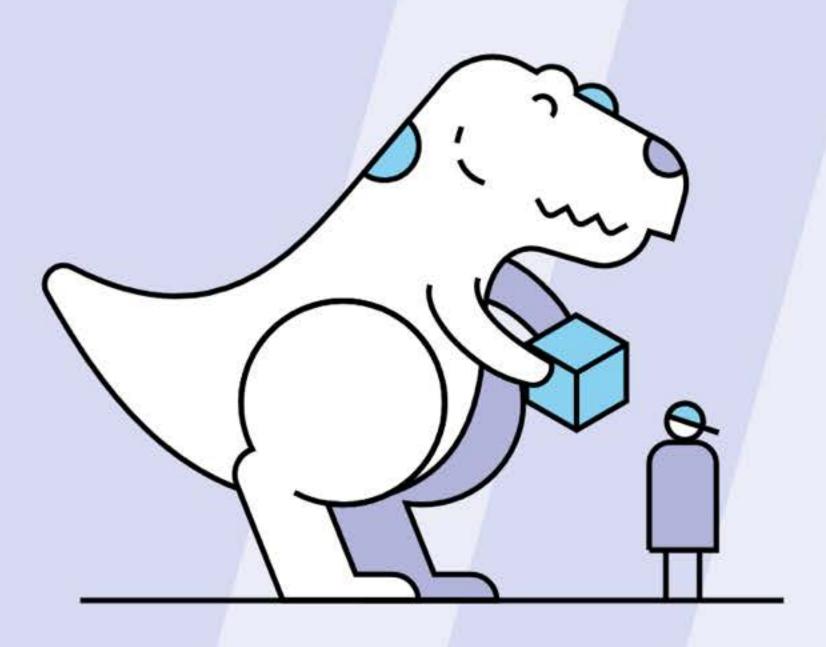
The new Firefox

Meet Firefox Quantum. Fast for good.

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Firefox Privacy Notice





We make the internet safer, healthier and faster for good.

Mozilla is the not-for-profit behind
Firefox, the original alternative browser.
We create products and policy to keep
the internet in service of people, not
profit.

Discover & collaborate on projects for a healthy internet. Learn more.

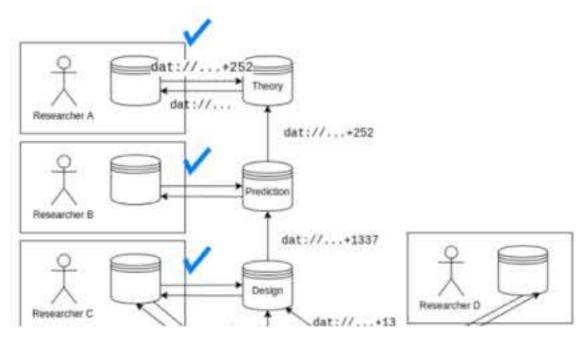


Open Leadership Map white paper

Zannah Marsh, Abigail Cabunoc Mayes, Rizwan Tufail, **Chad Sansing**



Blog: Plugging in on Policy Corinna Zarek



Decentralizing scholarly communication

Jim Pick, Chris Hartgerink



Op-ed: Don't Give Kids Holiday Gifts That Can Spy on Them

Ashley Boyd

https://www.mozillapulse.org/featured/



MozFest 2017: Exposure, Cross-Pollination and Tomorrow's New Internet

Matthew Kopel

Touch, learn and shape the future



A Future Not Made in the EU

Centrum Cyfrowe



11

Technologies that could allow literally billions of everyday objects to communicate with each other over the Internet have enormous potential to change all of our lives.

IoT: the Second Digital Revolution

<u>IoT Review</u>

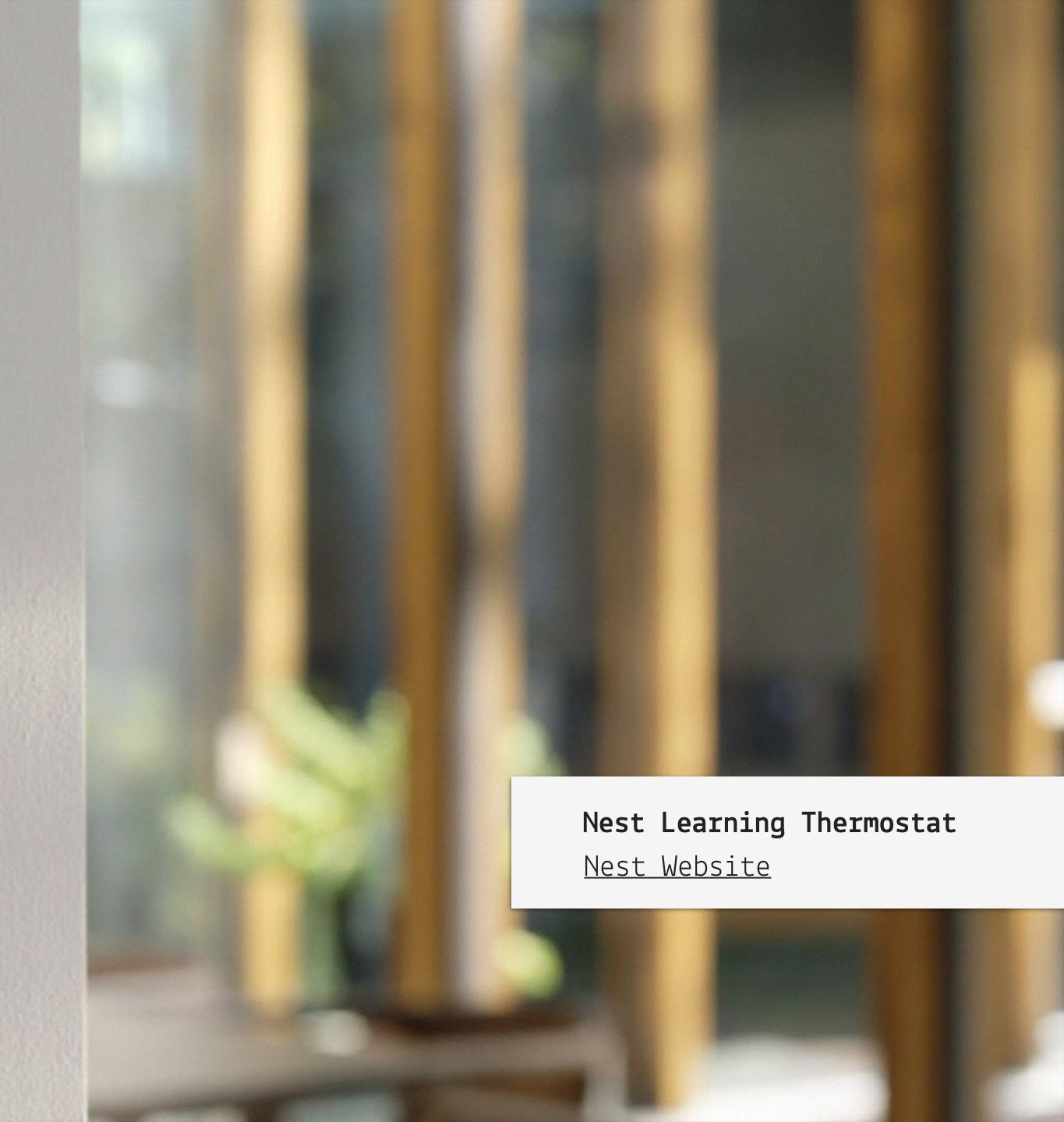
"Mozilla's Open IoT Studio seeks to advance responsible open IoT through professional practices and a network of IoT practitioners who conduct research, make prototypes and build meaningful collaborations.





What does IoT look like?



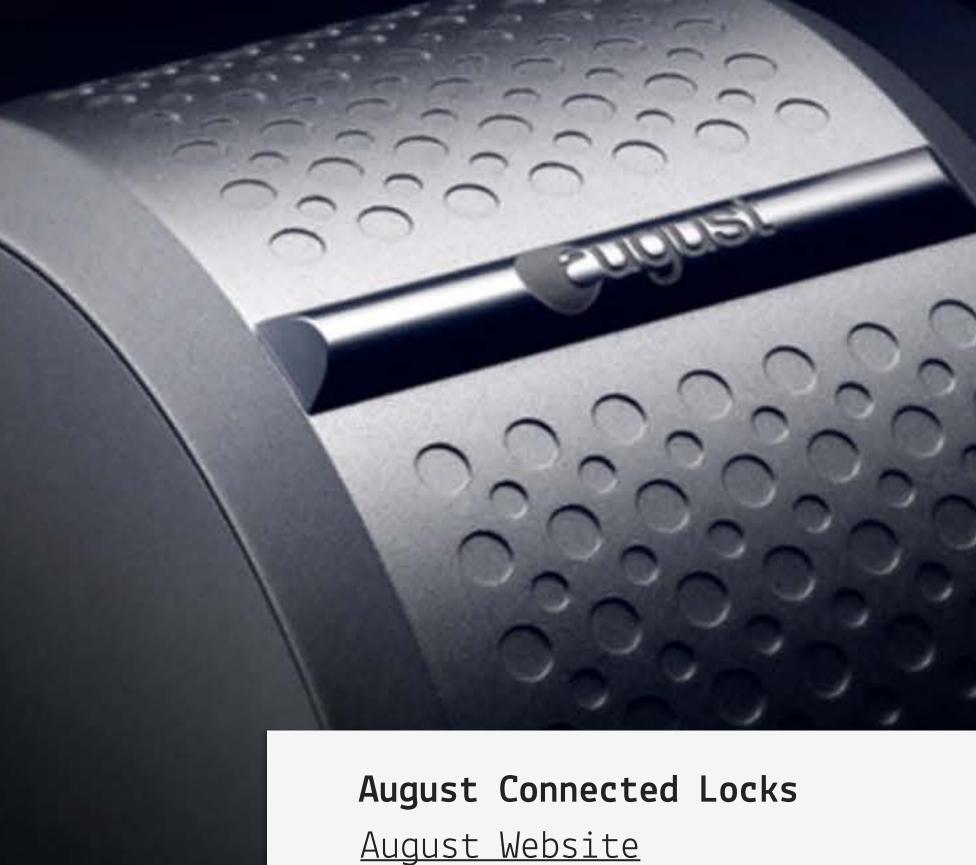




Editors' Choice Award

August Smart Lock HomeKit Enabled

LEARN MORE







Roll over image to zoom in

Amazon Echo / Alexa

<u>Wired Article - Real Challenge</u>

Amazon Echo, Black

Save an extra 10% with Amazon Student*

by Amazon



3,725 customer reviews

1000+ answered questions

#1 Best Seller in Hi-Fi Speakers

Price: £149.99 & FREE Delivery in the UK. Details

In stock.

Want it delivered by tomorrow, 20 Jan.? Order within 2 hrs 16 mins and choose One-Day Delivery at checkout. Details

Dispatched from and sold by Amazon EU Sarl. Gift-wrap available.

Note: This item is eligible for click and collect. Details

Colour Name: Black





- Plays all your music from Amazon Music, Spotify, TuneIn and more using just your voice
- Fills the room with immersive, 360° omni-directional audio
- Allows hands-free convenience with voice control
- Hears you from across the room with far-field voice recognition, even in noisy environments or while playing music
- Answers questions, reads audiobooks, reports news, traffic and weather, provides sports scores and schedules, and more using the Alexa Voice Service
- Controls lights, switches, thermostats and more with compatible connected devices from WeMo, Philips Hue, Hive, Netatmo, Nest, tado ° and others

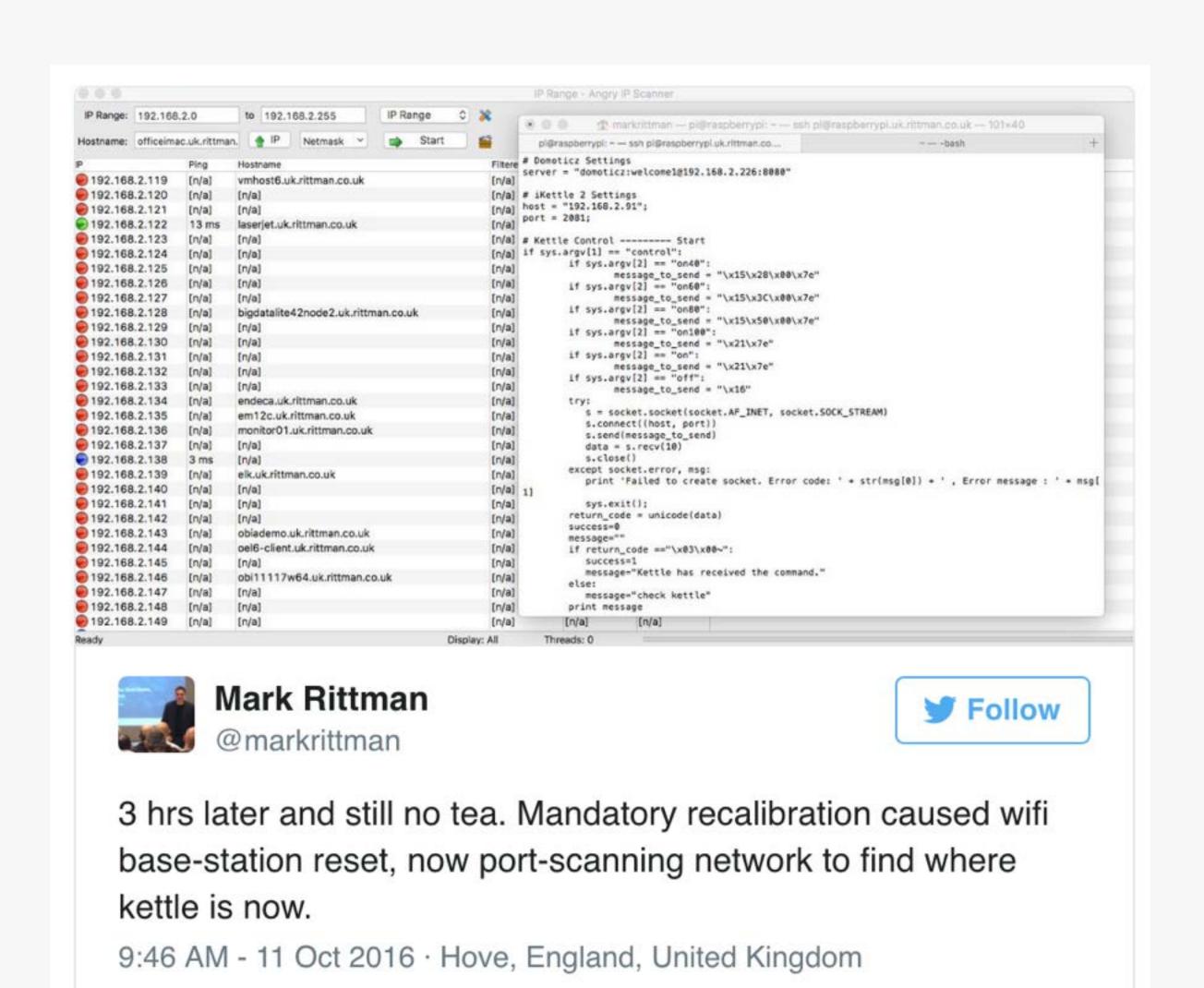


Y	Add to Basket
	Turn on 1-Click ordering
☐ This is	a gift. Why is this important?
	Add Accessories
Amazo £19.99	on Voice Remote (not included)
	Wemo Smart Switch: Switch - £40.11
LIECTOR OF THE	Hue White & Colour Lighting ther Colours - E27 Starter Kit
2/3	no Smart Thermostat: Stand £104.99
Dispatch t	to:
Martin Ske	elly- Bathgate - EH48 🔻
Add to L	ist \$

11

Well the kettle is back online and responding to voice control, but now we're eating dinner in dark while lights download a firmware update...

Mark Rittman, 12 hours for a cup of tea Guardian Article



◆ **1** 285 **2** 475

Recognition features to you. In addition, Samsung may collect and your device may capture voice commands and associated texts so that we can provide you with Voice Recognition features and evaluate and improve the features. Please be aware that if your spoken words include personal or other sensitive information, that information will be among the data captured and transmitted to a third party through your use of Voice Recognition.

If you do not enable Voice Recognition, you will not be able to use interactive voice recognition features, although you may be able to control your TV using certain predefined voice commands. While Samsung will not collect your spoken word, Samsung may still collect associated texts and other usage data so that

Behind Winston's back the voice from the telescreen was still babbling away about pig-iron and the overfulfilment of the Ninth Three-Year Plan. The telescreen received and transmitted simultaneously. Any sound that Winston made, above the level of a very low whisper, would be picked up by it, moreover, so long as he remained within the field of vision which the metal plaque commanded, he could be seen as well as heard. There was of course no way of knowing whether you were being watched at any given moment. How often, or on what system, the Thought Police plugged in on any individual wire was guesswork. It was even conceivable that they watched everybody all the time. But at any rate they could plug in your wire whenever they wanted to. You had to live-did live, from habit that became instinct--in the assumption that every sound you made was overheard, and, except in darkness, every movement scrutinized.







Left: Samsung SmartTV privacy policy, warning users not to discuss personal info in front of their TV

Right: 1984

9:35 AM - 8 Feb 2015



★ 27 31,848 **9** 17,449



11

...there are the rampant security issues with the internet of things that allow hackers - whether they are criminal, government or something in between - to access loads of data without any court order...

> IoT Surveillance <u>Guardian Article</u>

Voice

siri has

2,000,000,000

siri has

2,000,000,000

conversations every week

Nearly 40,000,000 'Smart Speakers' were sold globally in 2017

Predicted 70% rise year on year until 2020

What happens in 2018?

Whose voice Will Control the future?

Yours...

RESEARCH BRIEF

Find out something interesting about voice interactions to inform your creative process...

Think qualitative!

surveys, focus groups, interview friends and family, desk research, experiment with platforms, be inquisitive...

ANY QUESTIONS?

TODAY

- Find a space in assigned studios
- Get to know each other (discuss previous projects, areas of interest)
- Discuss the brief, discuss interests and where to begin research
- Come up with a team name + think about your brand

TEXT TO SPEECH DEMO

ICEBREAKER

- As a group, create an image and a 20 second digital voice audio recording introducing your team name and research direction to the class
- Send the mp3 + single image to <u>m.skelly@dundee.ac.uk</u> by 4.30pm
- We will share next week on the blog

Download the processing sketch at: https://github.com/mskell/processing-tts

This isn't a technology test, if you have any problems with the file - don't worry - you can create a similar mp3 on http://www.fromtexttospeech.com/

ANY QUESTIONS?