

FUTURE DIALOGUES

Whose voice will control the future?

2018

DJCAD, University of Dundee

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TODAY

- Prototyping Everything
- Research presentations (L2 Graphics Studio)
- Next week!

WEEK 3 UPDATES

ANYTHING TO SHARE?

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

PLAYING WITH IDEAS

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

FIND

PLAY

MAKE

TALK

A3
RESEARCH
BOARD

EXHIBITION
OUTLINE
PLAN

EXHIBITION
ASSETS

SET UP
SHOW

PROTOTYPING EVERYTHING

Prototypes are
representations of a
design before a final
artefact exists

**Experience prototypes
allow you to demonstrate
what it will feel like
to use a thing**





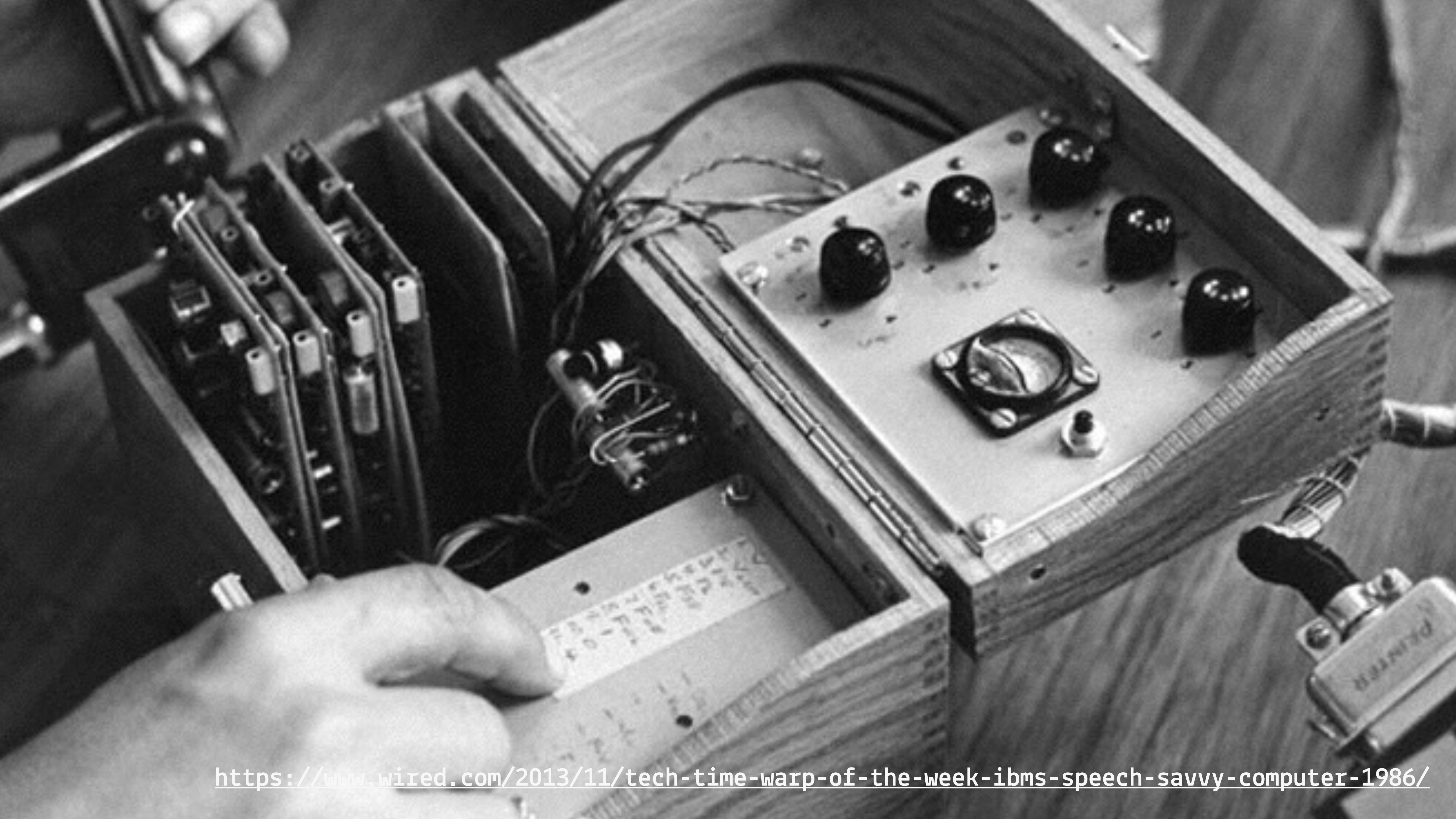
'Pretotyping'

[http://www.pretotyping.org/uploads/1/4/0/9/14099067/
pretotype_it_2nd_pretotype_edition-2.pdf](http://www.pretotyping.org/uploads/1/4/0/9/14099067/pretotype_it_2nd_pretotype_edition-2.pdf)

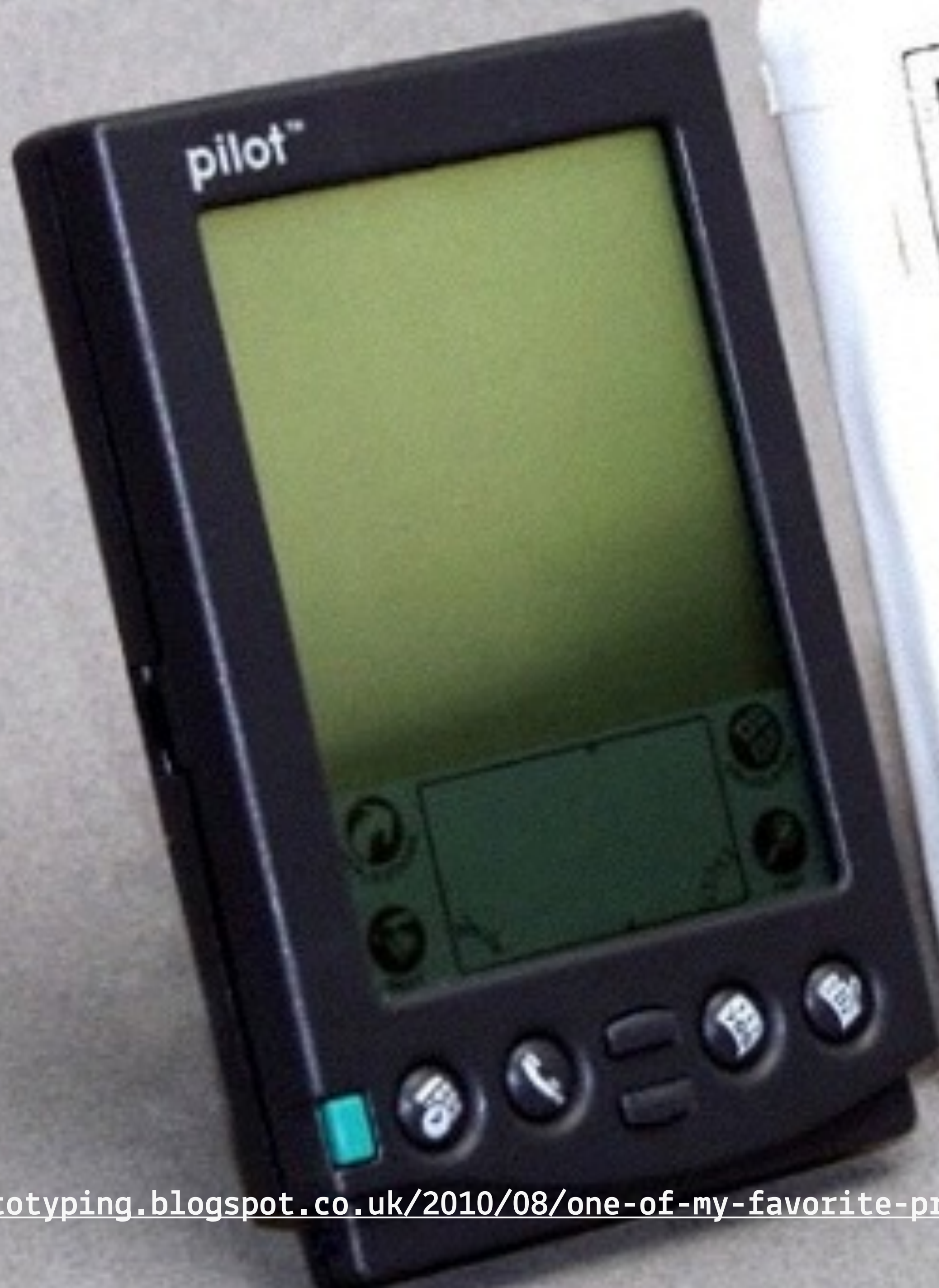
**IBM Speech to text
experiment, 1980's**



<https://www.youtube.com/watch?v=3pNG05ppfQ8>



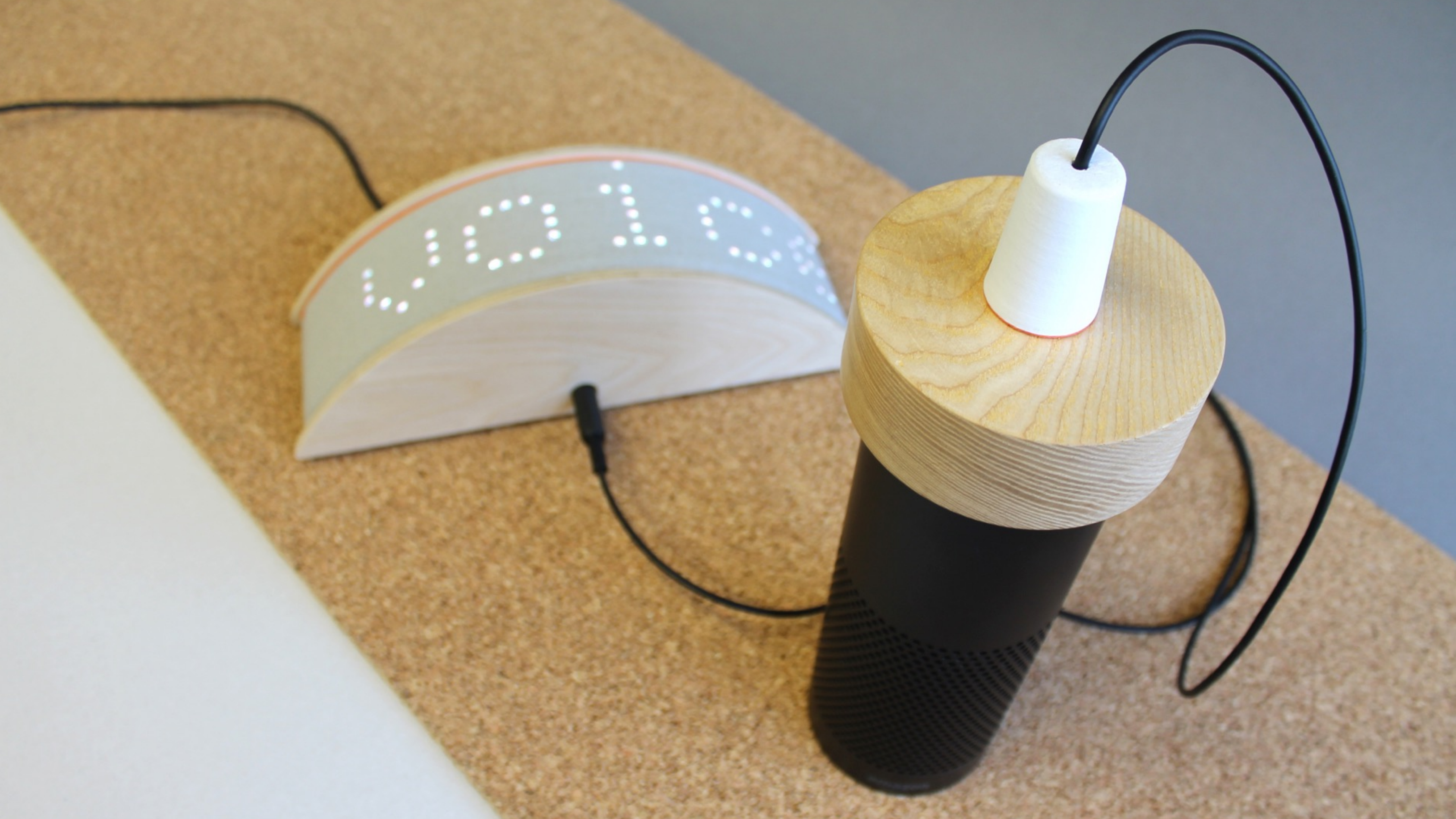
Jeff Hawkins original
Palm Pilot prototype



Pretotyping is a way to test an idea quickly and inexpensively by creating extremely simplified, mocked or virtual versions of that product to help validate the premise that "If we build it, they will use it."

'fake it until you make it'

How can this
be applied to
your projects?



**A series of provocative
prototypes to raise
awareness, encourage
debate and enable change**

**IoT amplifies major Internet
health issues such as
decentralisation, trust,
privacy and security**

**Voice is a leading
category of connected
devices in peoples homes**

**Approximately 11,000,000*
devices with alexa's ears
are listening right now**

* <http://www.seattletimes.com/business/amazon/amazon-has-sold-more-than-11-million-echo-devices-morgan-stanley-says/>

Always on is becoming the norm, but what do people expect from this new category of product?

1.



2.



3.



4.



1. Cloud Pets data breach:

<https://mccunewright.com/cloudpets-toys-present-latest-iot-data-breach-scandal/>

2. Cayla IoT toy banned as surveillance device in Germany:

<http://www.cso.com.au/article/614555/germany-bans-q-iot-doll-cayla-illegal-spy-device/>

3. Alexa evidence cited in murder trial:

<https://www.wired.com/2017/02/murder-case-tests-alexa-devotion-privacy/>

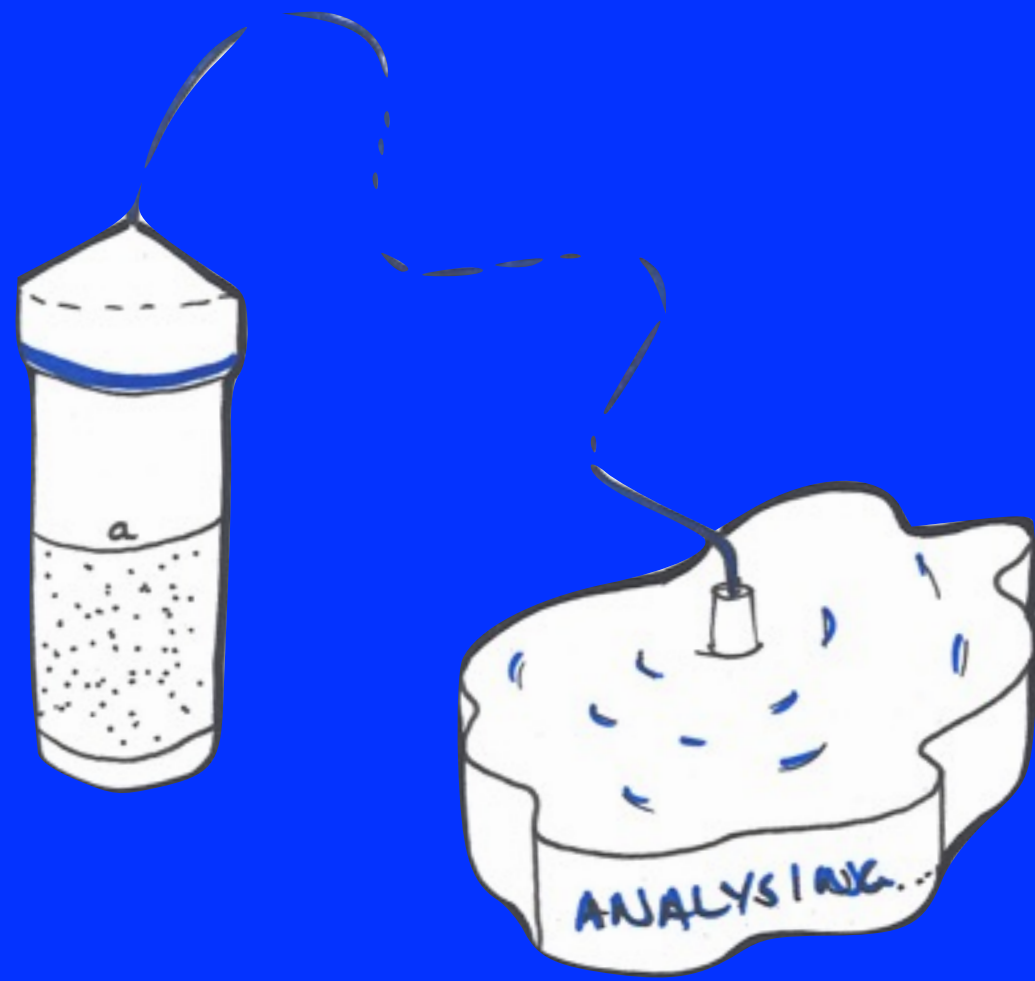
4. Samsung SmartTV Original Privacy Policy compared with 1984 quote:

https://twitter.com/xor/status/564356757007261696/photo/1?ref_src=twsrc%5Etfw

INTRODUCING

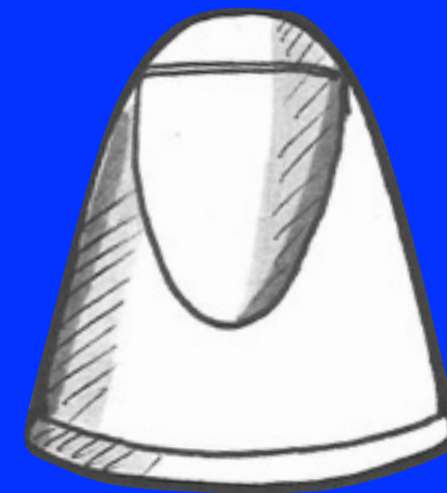
**A collaborative project
that spans Mozilla's
voice research efforts**

**Three provocative
prototypes to raise
awareness, encourage
debate and enable change**



AGENT

Acts as an agent on your behalf to allow open flexibility across several siloed platforms.



ACTOR

Explores listening behaviours and a transparent visual language for listening machines.



ADVISOR

Explains current commercial platforms, the value of voice data and gathers labelled local voice data.

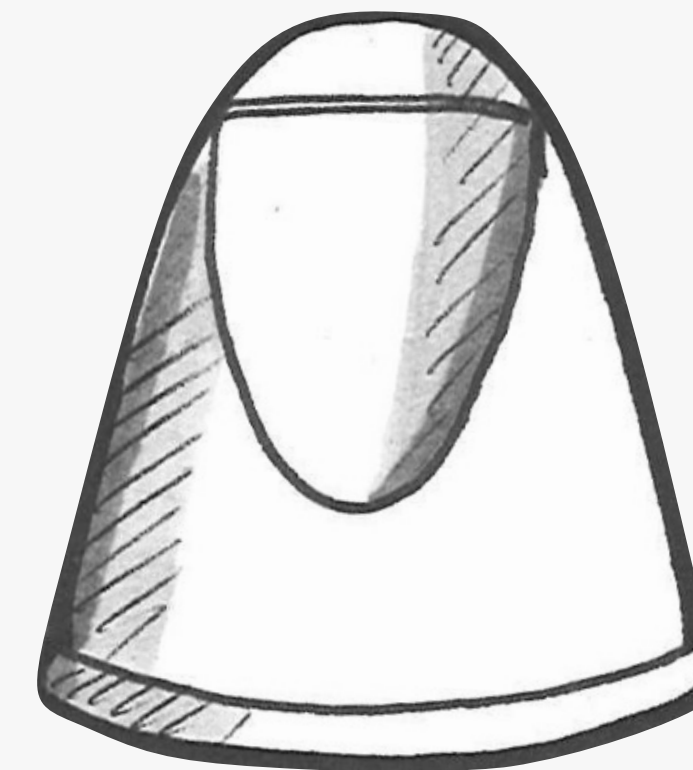
ACTOR

ACTOR

What does listening look like? We all know a good listener, but how can we embody human listening queues in the behaviour of conversational interfaces.

The actor prototype will explore how a products form can shape our experiences when speaking with machines.

A series of directional microphones will be layed out on the plinth, when they detect speech the product will rotate towards you to show active listening. When it hears a keyword, the textile dome lifts up to show active listening.



Aims

- encourage debate around 'always on' listening behaviour that is becoming the norm
- playful / entertaining to bring people over to the three devices with noise and movement

Inspiration

- stage mimes / R2D2

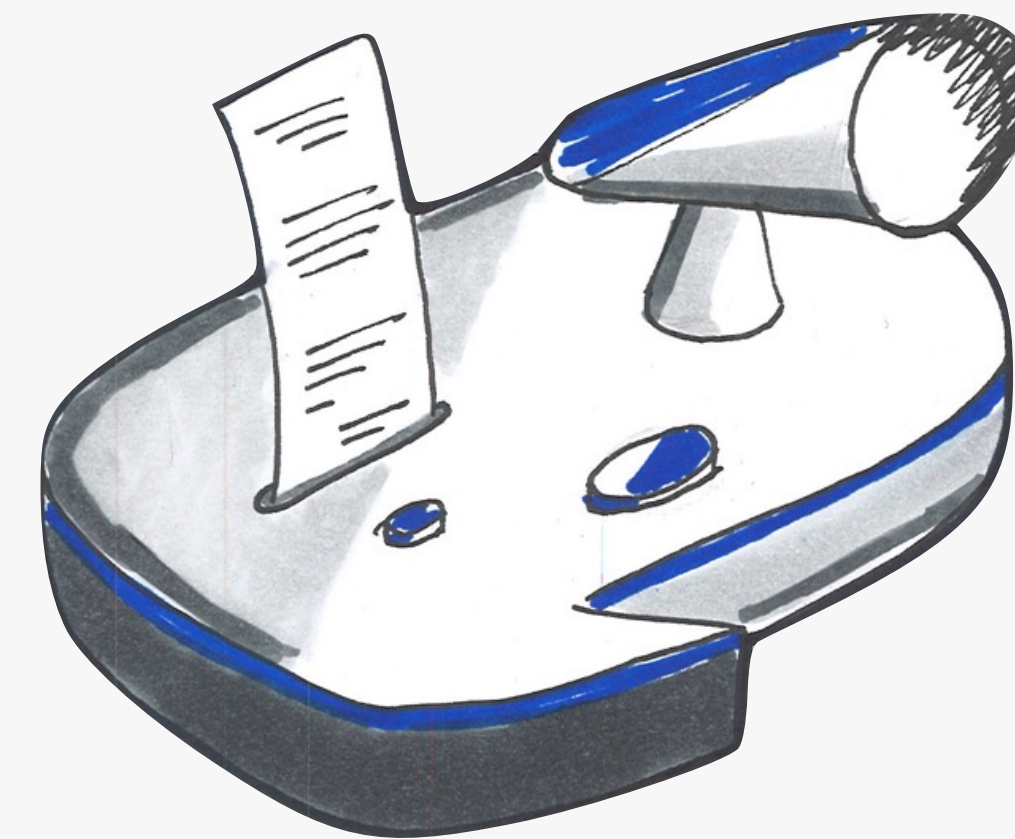
ADVISOR

ADVISOR

Advisor raises questions around ethics / inclusion / localisation & diversity issues within voice and IoT. Advisor encourages visitors to record labelled speech data into the object and displays the percentage accuracy of typical engines and why the data is important to enable accuracy. It also poses ethical questions around voice, and allows users to vote their opinion with push buttons.

When you leave the device you receive a print out with your responses and the average response rate from exhibition visitors to the questions along with a print out explaining where to go to add your voice to deep speech database with link to iPhone app / web form sign ups.

Pre-recorded content and context of questions based on local communities where object is on display, e.g. Dundee & Taipei to explore language / accent / bias etc.



Aims

- Encourage visitors to think deeply about issues
- Provide a call to action / info on how to get involved

Inspiration

- Voting booth / Starlight / accents / localisation

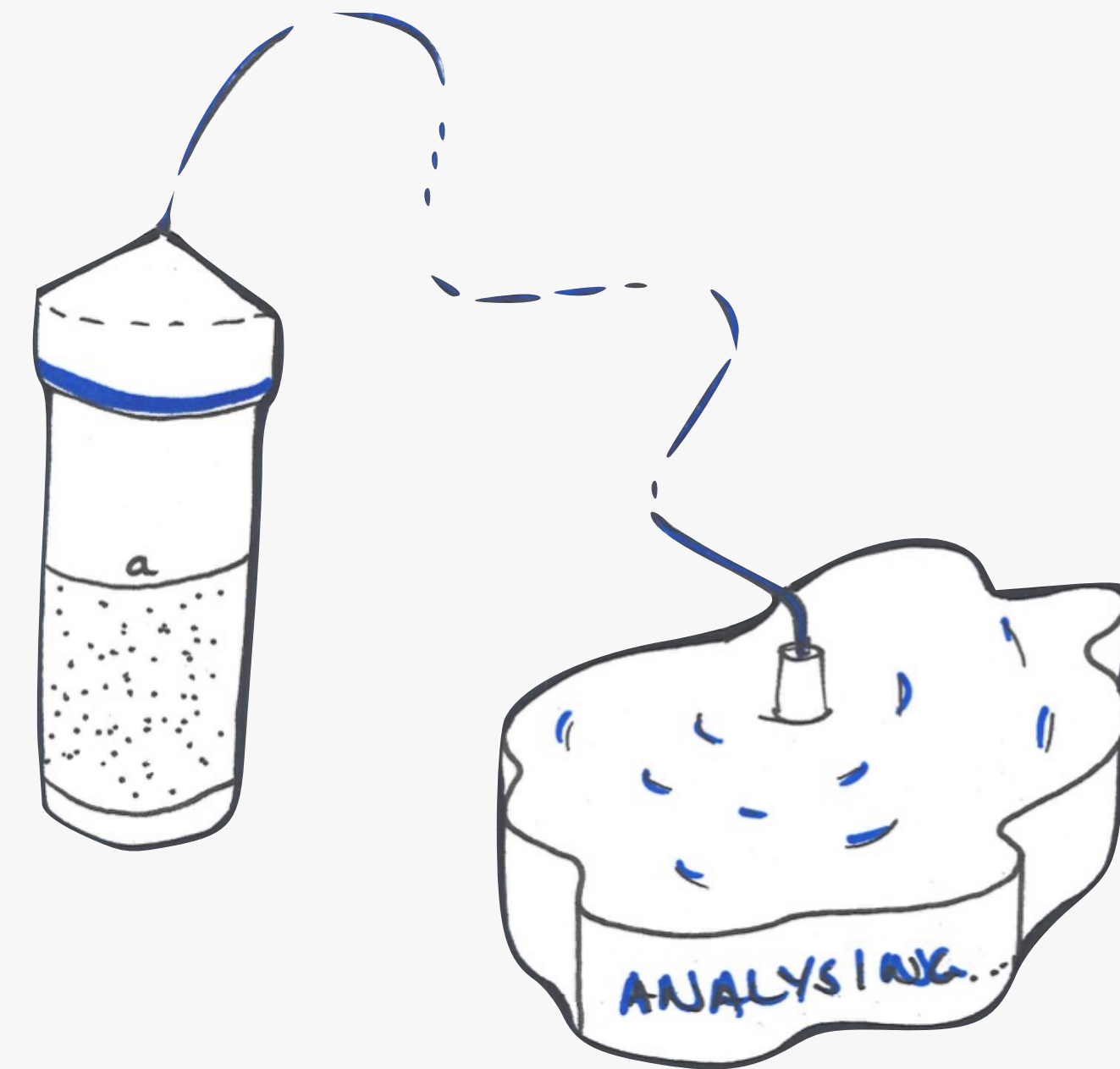
AGENT

AGENT

Agent acts as a translator between a user and different conversational user interface platforms, for example amazon alexa, google home and samsung.

Agent keeps you in control of your own voice data, and the valuable deep learning remains on your local device. Your agent interacts with other companies siloed voice platforms on your behalf.

Allows incognito mode when speaking to voice platforms, can be used to mask or change your voice when speaking with conversational interfaces to stop them gaining data that you would prefer not to offer.



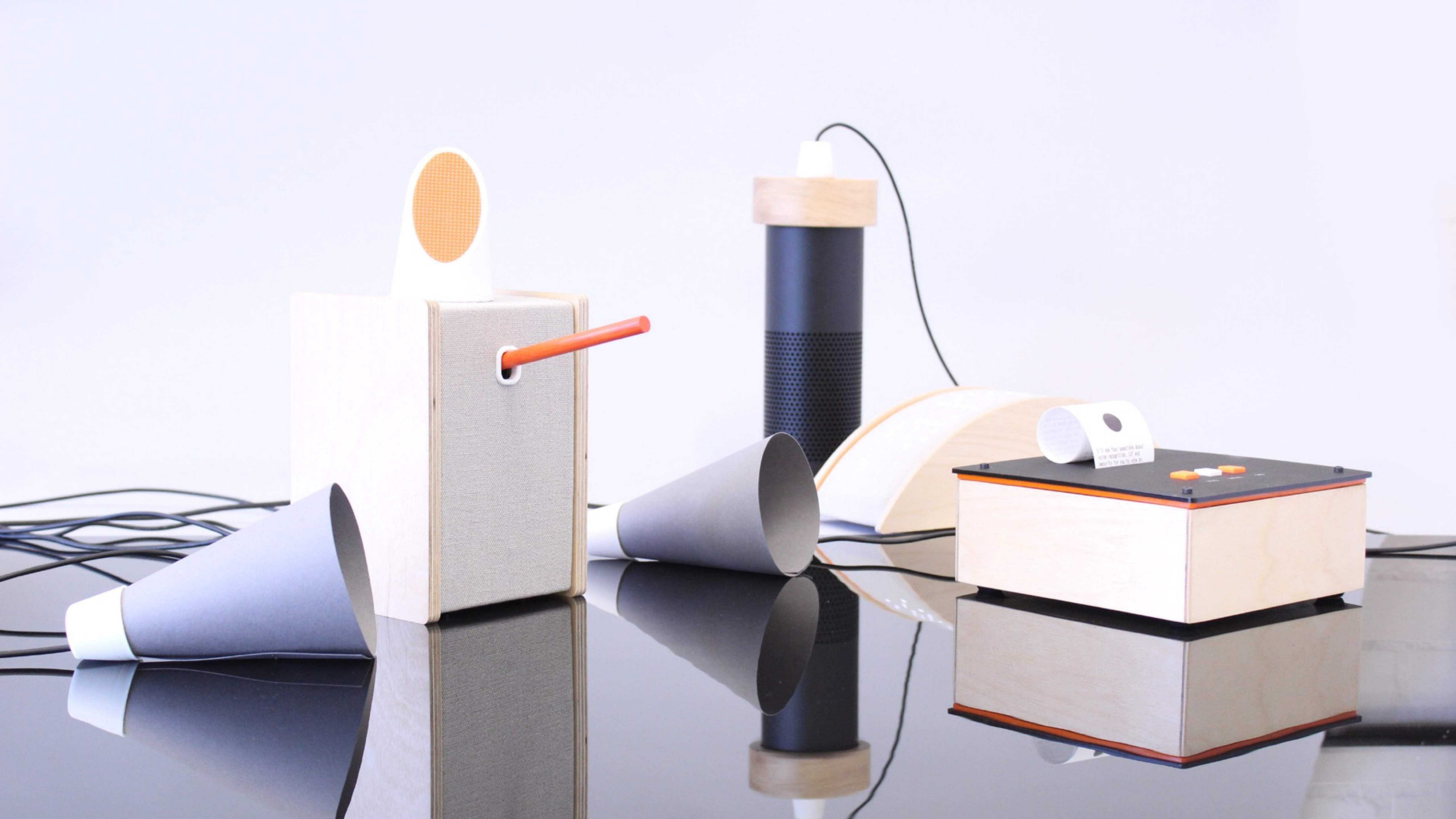
Aims

- explain downside of siloed approach of leading companies in voice, through metaphor of current open web
- educates about value of data and how algorithms are trained using users voice captures and sold on

Inspiration

- metaphor of siloed web

nobody got it...





Our Friends Electric



Eddi

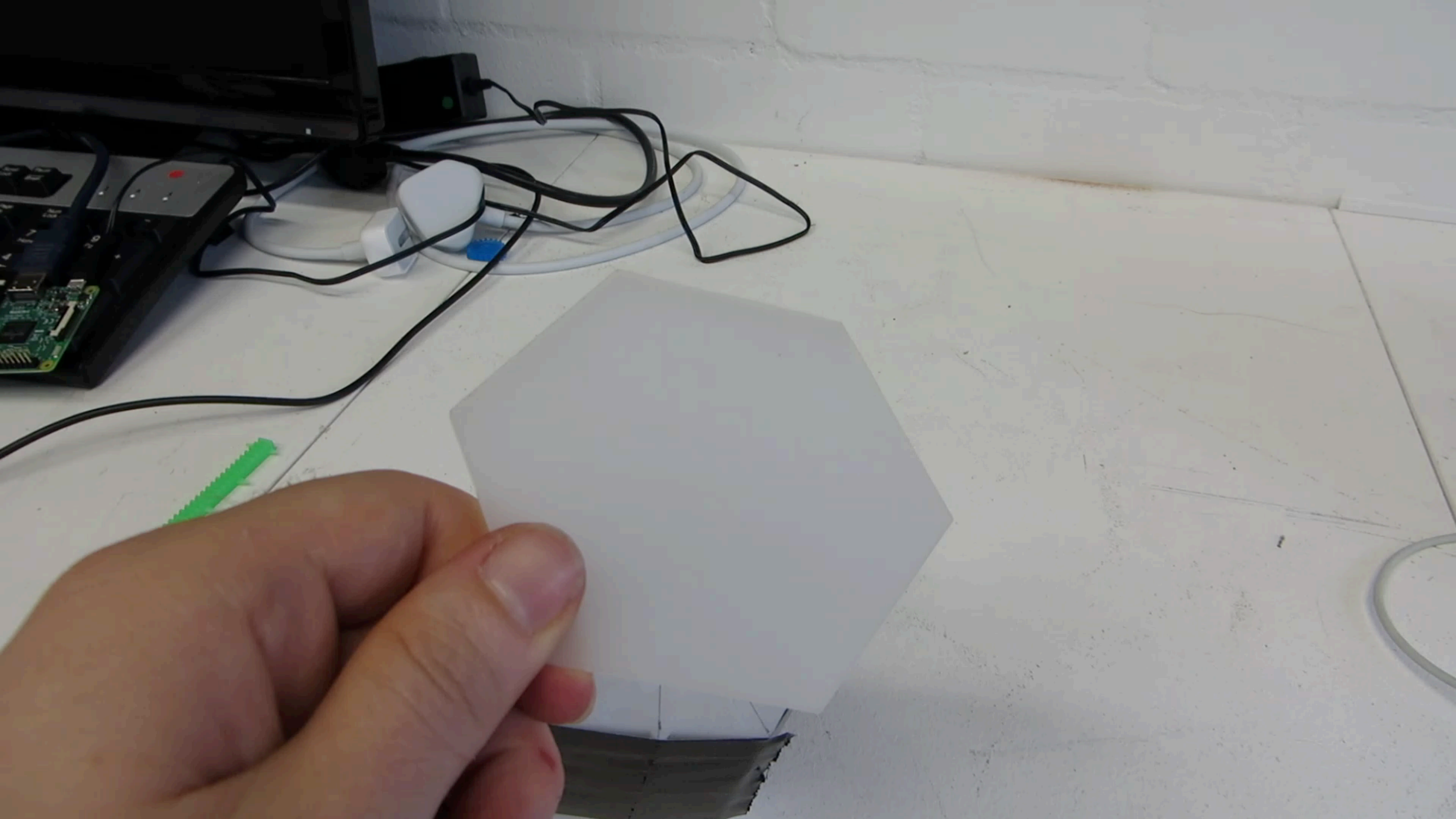
Growing with you

Karma

Your voice as you want it

Sig

Your programmable companion



PROTOTYPING FUTURES

“Design today is concerned primarily with commercial and marketing activities but it could operate on a more intellectual level.

It could place new technological developments within imaginary but believable everyday situations that would allow us to debate the implications of different technological futures before they happen.”

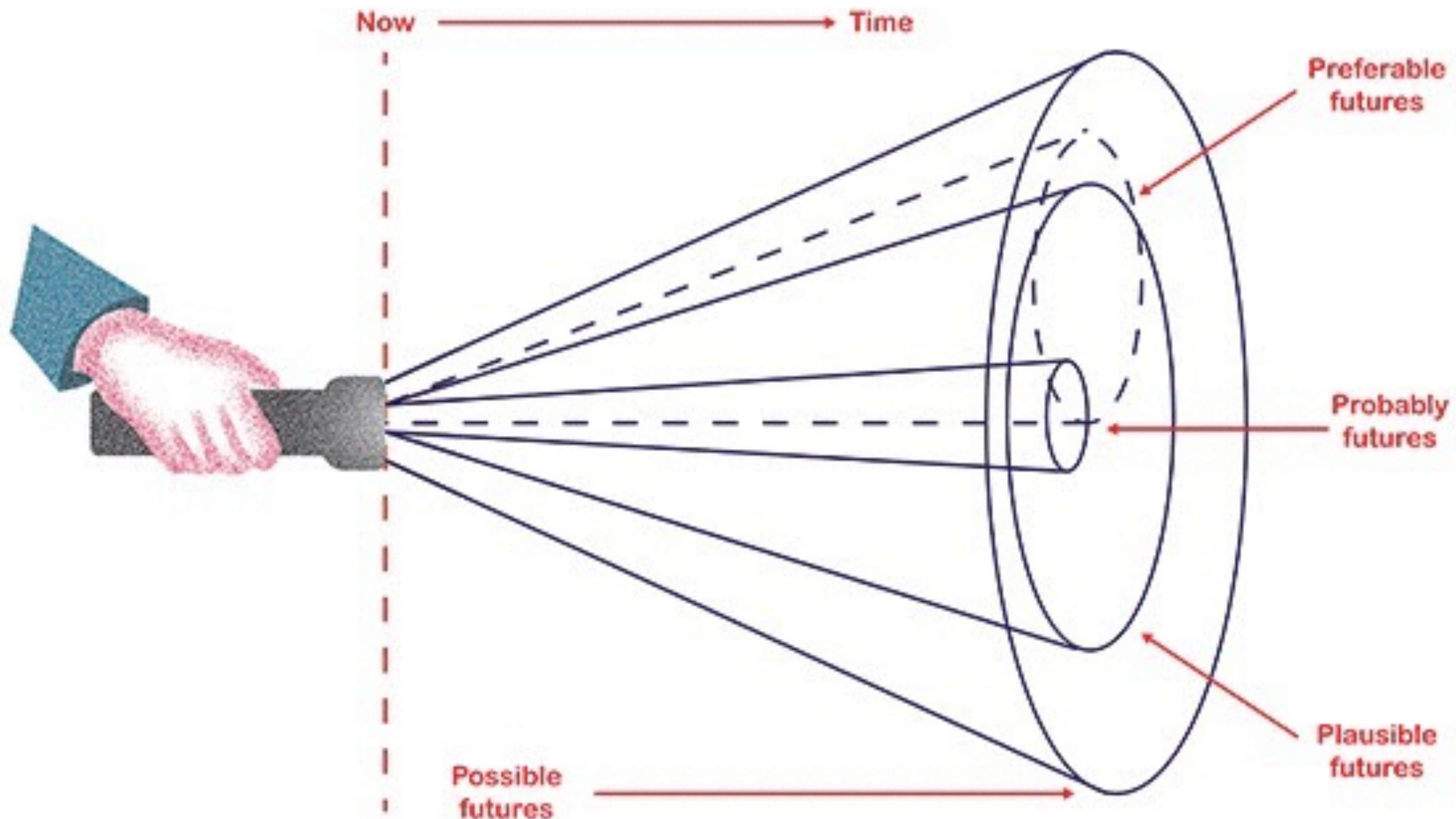
- Anthony Dunne and Fiona Raby

What if?

“By creating scenarios around these “what if” questions with tangible and realistic objects, designers can fabricate an experience of that possible future.”

- Isa Kolehmainen

<https://www.nesta.org.uk/blog/speculative-design-design-niche-or-new-tool-government-innovation>



PROVOCATIONS

Do teams make prototypes or
do prototypes make teams?

**How can you prototype a
service or an experience?**

How can making inform your
idea generation process?

**Taking forward more than
one concept until the end
of the play stage allows
you to experiment**

Everything is a prototype

FURTHER INSPIRATION

Experience Prototyping Paper

by Marion Buchenau, Jane Fulton Suri.

<https://hci.stanford.edu/dschool/resources/prototyping/SuriExperiencePrototyping.pdf>

Sketching User Experiences: The Workbook

*by Saul Greenberg, Sheelagh Carpendale, Nicolai Marquardt
and Bill Buxton.*

Pretotype It

[http://www.pretotyping.org/uploads/1/4/0/9/14099067/
pretotype_it_2nd_pretotype_edition-2.pdf](http://www.pretotyping.org/uploads/1/4/0/9/14099067/pretotype_it_2nd_pretotype_edition-2.pdf)

Sketch Modelling at Bang & Olufsen

<http://journal.beoplay.com/journal/2015/10/14/the-man-and-the-cardboard-model>

ANY QUESTIONS?

NEXT WEEKS LECTURES

(Week 4)

Friday 9th Feb - Dalhousie 2G11 Lecture Theatre 4

09.15 - 10.15 - Tommy

Storytelling through interdisciplinary practice

10.30 - 11.30 - Gary

Grids in Practice

TO THE STUDIOS!

Future Dialogues Tutorials

Graphic Design Level 3 Seminar Space, Friday 2 February

Morning Start	Afternoon Start	Time Blocks
10:30 am	2:00 pm	15m

Time	Slot	Team Name						
10:30 am	1	Moon Jelly	Ferns Mairi	Park Rachel	Knibb Lola	Webster Olivia	Weepers Lorena	Malavet Kevin
10:45 am	2	Tiki	Coull Lewis	Beckett Zoe	Joseph Crispin	Johnston Harriet	Hill Saskia	Gardiner Ewan
11:00 am	3	Wave	Dewar Taylor	Gaylor Bradley	Smith Rebecca	Matthew Justine	Devlin Ciara	Maccallum Max
11:15 am	4	Chroops	Brier Jordan	Cunningham Millie	Sadowska Jagoda	Hutchison Ines	Mcdonald Ewan	
11:30 am	5	Curiously Cinnamon	Hirst Samuel	Freeman Anna	Vettraino Arianna	Hill Sarah Jane	Burton Jamie	
11:45 am	6	Dominators	McGovern David	Wilson Lily	Prentice Alice	Shaw Niamh	Shankland Erin	Johnstone Charles
12:00 pm	7	Blah	Cruz-Costa Renato	Wilkinson Megan	Dalgleish Sophie	Flynn Euan	Gilruth Cherie	Shaw Calum
12:15 pm	8	Miyagi Dolphins	Laird Callum	Walker Rachel	Reid Robbie	Fleming Kerry	Heath Alice	Twene Kish
12:30 pm	Lunch							
2:00 pm	9	K9	O'Neill Callum	Hall Jade	Wheelan Jamie	Spence Alana	Kennedy Lewis	
2:15 pm	10	Freeman	French Iona	Connor Neil	Tolland Sorcha	Mcindoe Greg	Bachelet Tiffany	Wood Ruaridh
2:30 pm	11	Resonance	Shek Karen	Snood Aaron	Smith Iain	Thomson Rebecca	Hirst Rachel	Morris Ben
2:45 pm	12	Six Pack	Lindsay Helena	Christoforou Stephe	Smith Jess	Docherty Graeme	Burke Kim	Urquhart Lewis
3:00 pm	13	Oreamno	Delatousche Jessie	Mcgreevy Elle	Rooney Cara	Turbitt Emma	Thomson Hannah	Langley Alex
3:15 pm	Break							
3:30 pm	14	Òraid	Chestnutt Ellen	Shankland Lauryn	Tinney Marion	Mclaughlin Nicole	Black Douglas	Mclaren Nathan
3:45 pm	15	Onsei	Merchant Catriona	Cohan Rebecca	Elder Louise	Bowman Lucy	Benjamin Iman	Walsh Hal
4:00 pm	16	Turtle Interpretation	Farrar James	Mccreadie Beth	Bastow Andrew	Cameron Leah	Gilmour Laura	Turner Ross
4:15 pm	17	Phoni	Andreoglou Ioannis	Rathie Greg	Hunter Iain	Swann Zoe	Cairns Naomi	Robertson Peter