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Old rope: Laing's knots and Bateson's double binds in systemic design

Lockton, Dan

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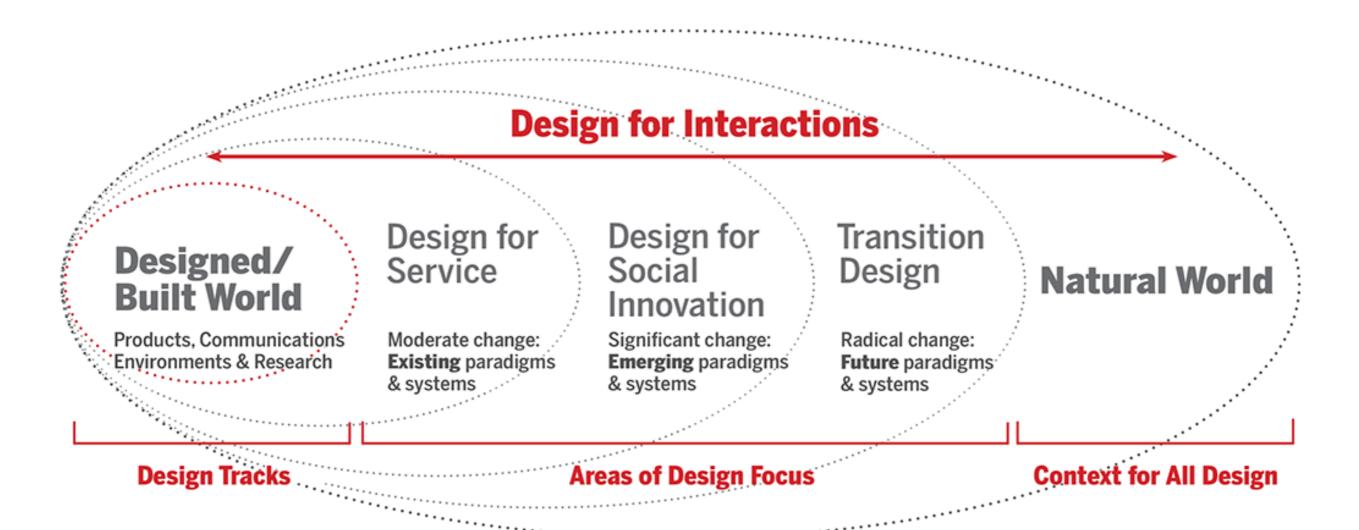
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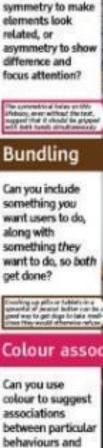


Design transitiondesign.net

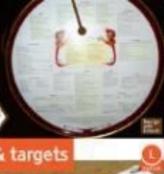




Brunel University, London







angle things so some actions are easier than others? Serve rigarette line are nell to authorities using the sizging tap as a hadron, discounging people was ing litter on lap

an extra 'confirmation' step before an action can be performed? Some Settick flat train doors require passengers to lower the

don'to get access to the discommended on the earlie

Coercive atmospherics



users by helping them reduce feelings of guilt about their behaviour?

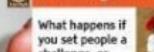


This recomposite thin position that are already of the chart about the others of certain production, and others on easy recome to take steep the goals.

(5) Collections







challenge, or give them a target to reach through what they're doing?

bitsoner laid out this coffee but as a target for Hitsoning come-times a lid about inflamming people to thruits generoosly and enjoy it

Choice editing

Can you edit the choices presented to users so only the ones you want them to have are available?

have a selfting can be dissert by epiciation, a.g. bracked in disr pa energ phases out in the EV by 2 when this photo-way taken?



DENO THE PROPERTY OF THE PARTY OF THE PARTY

Plant builds

•

Can you use ambient sensory effects (sound, light, smell, etc) to make it harder for

Man Dybbing to cond to come polic facility paling here, in Editable to share competiting to partition by enabling varies of Misself to need



\$100 MOKE

\$116.07

What happens if you encourage users to collect a set of things (friends, activities places, objects,

eedback through form



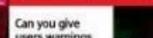


Our coffee want to

a bitter taste in your

mouth. It's Fairtrade.

Can you give users warnings based on detecting the error they've outcomes?



Conditional warnings

made, or might be about to make?

The parking dense warrong light on a car's destinated is a warring to the distant doors drive off without reteating the braker

Converging & diverging

Can you channel people so they come together (or split up)?

Decoys

Can you add 'decoy' choices, making the others (which you want people to pick) look better in comparison?

would you choose the \$19.00 agricul hom, when the other face disc you are you after you sightly more manage?

PEOPLE

63

or suggestive cues? Arms 1907 a 1909 2009 distancing Smells are enoughted no they 67 with pulsy and auxiliate others the purious size in marked when they purious size in marked when thing

Can your system

Mimicry & mirroring

Can you use the

object itself as a

kind of interface,

giving feedback

form of your



Kairos

Can you give users a suggestion at exactly the right moment for them to change their behaviour?

Leave gaps to fil

Can you leave deliberate gaps (in a design, message, etc) which users will want to fill, becoming engaged

in the process?

Ludic Lens

Ludic design patterns for influencia parts fit only

Challenger & tergets LOVE, \$101, 11 50;

Lavely.

- Milde it a merrie Playforest

Matched affordances

when the right way round, or only with the products they should do?

Can you make

Mazes

Can get people to follow the path you want them to, on the way to reaching something they want?

mirror or mimic a user's behaviour or mood in some way, to increase the engagement a user feets?

that both have devoted deposed the cleans \$1.00, and are being used in social argineering attacks to extra infectionation and deliver makes in

In she a Respection paye but be expiret, a semi-intelligent cleat but, or just a

Eliza Chat bot

House I be a house now or next and use of the

Personality

Can you give your system a personality or character that engages users, becoming a 'social actor'?

Dutch reporters have over Palips 6.4 reliable officerum servidence making with weating medical, advising and expensing spreads

Poison pill

Can you arrange things so that an otherwise attractive option has an unpleasant, selfdefeating deterrent side-effect?

Moregisto make if armaly not onth stealing the clothes



Can you rearrange things so people interact with them in the locations you want them to?

Pauli learning productificat a missing pools dustline patter on the right frame pate (UP) makes it more thely that were form to potice one coming traffic

Progress bar

Can you let users = = know their progress towards achieving a goal?

As directed about the countries from sintential and followed a progress been abouting "mostly complete" and make a good search more action also

Unpredictable reinforcement

Windows Street Streets in Sold a company profes to

Sousveillance

They Work For You Can you give people lower down' a hierarchy the ability to observe and monitor the behaviour of people above them?



Social proof

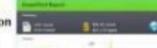
Can you show people what other users like them are doing in this

othy designed Together

Can you give







Transparency

Can you (perhaps selectively) reveal what's going on under the surface,

What happens if you give rewards

or feedback on an unpredictable



Worry resolution

Can you help users overcome worry about their behaviour (perhaps









imaginari.es

We're a research studio using design methods to explore and support people's imagining—both new ways to understand, and new ways to live. <u>→</u>















Who we are

Current Imaginaries Lab research team



<u>Devika Singh</u>, Research Assistant 2017–



Gray Crawford, Research Assistant 2018–; MDes thesis student



Aadya Krishnaprasad, Research Assistant 2018–



Rachel Gray Alexander, Research Assistant 2018–



Michelle Chou, Research Assistant 2018–



Saloni Sabnis, Research Assistant 2018–



Dan Lockton, Assistant Professor



Bella, Friend of the Lab

using design methods to understand how people understand

using design methods to help people understand in new ways

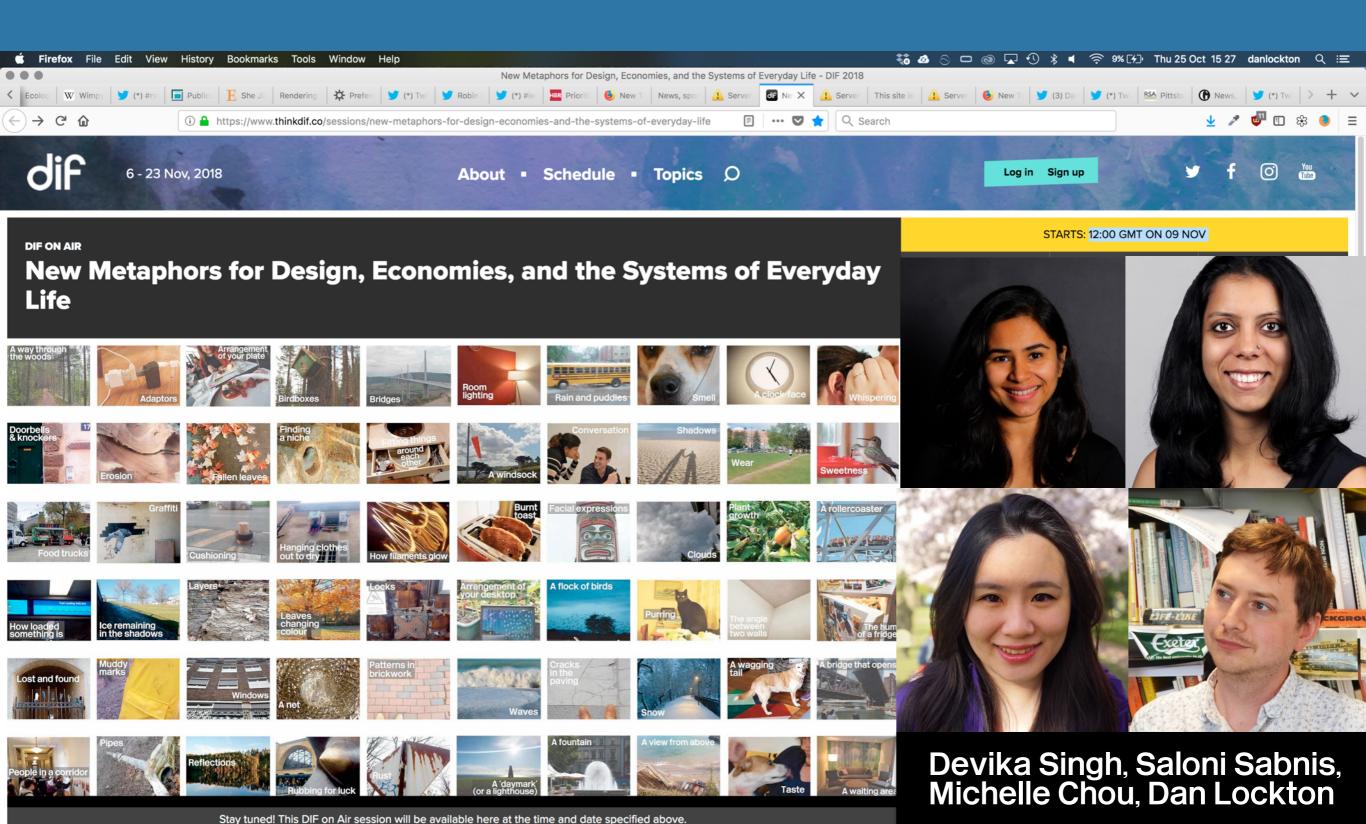
using design methods to help people imagine new ways of living

using design methods to enable people to change the behaviour of the systems they're in

How can we create new metaphors to help people reframe or understand complex ideas?



New Metaphors at the Ellen MacArthur Foundation Disruptive Innovation Festival (online), 9 Nov



How do people understand local government? (Systems mapping through story construction)



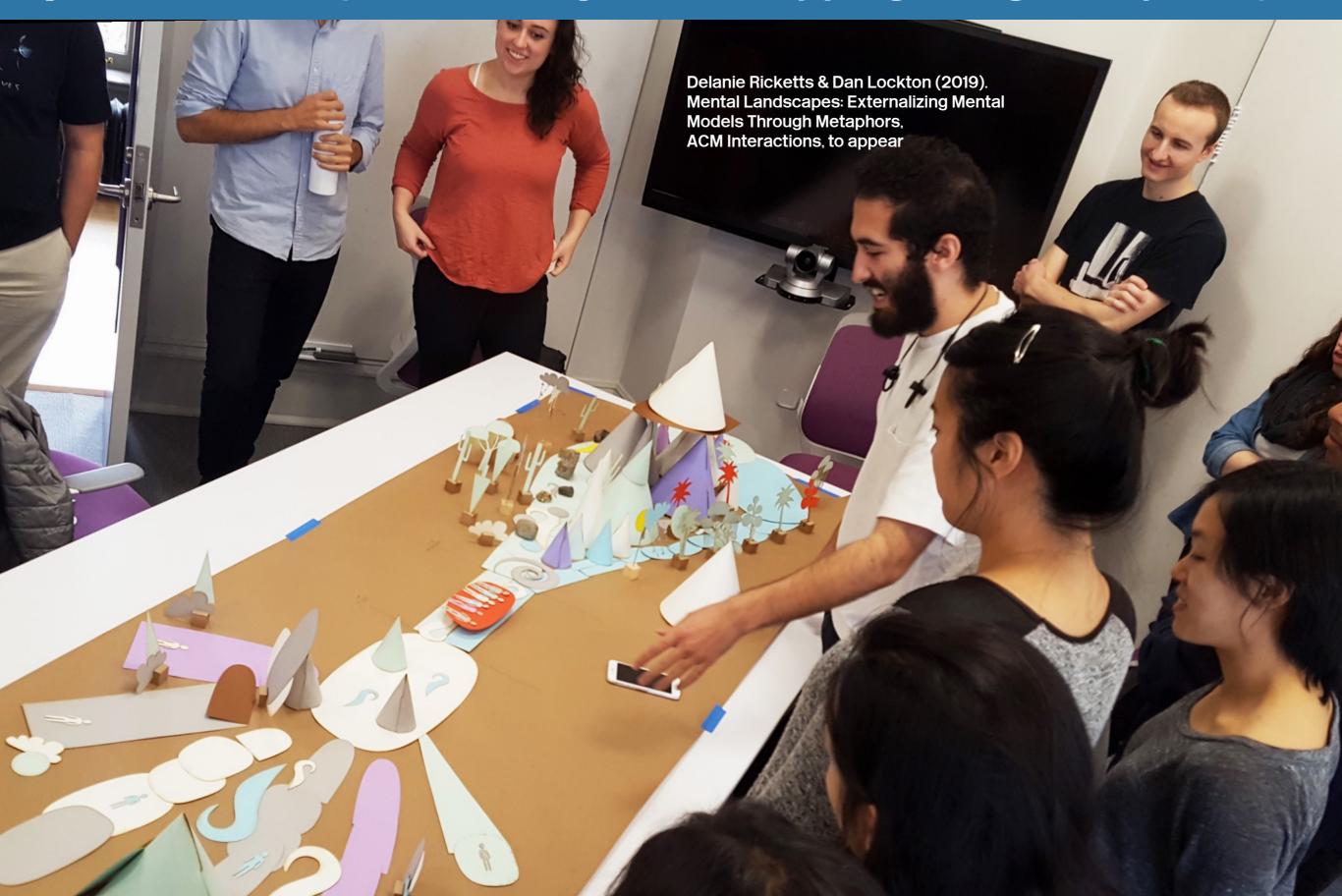


If you could see (and hear) electricity in different ways, would you understand it differently?

(New types of 'qualitative' interface design)

Shengzhi Wu, Gray Crawford, Devika Singh, Dan Lockton (2018). 'Electric Acoustic'

Can you use model landscapes to explore how you think about your own life? ('Personal' systems mapping using metaphors)



How can we use design methods to enable people to materialise and share their own experiences of mental health?



imaginaries

'If [people] define situations as real, they are real in their consequences'

William Thomas & Dorothy Swaine Thomas The Child In America, 1928

mental models heuristics folk theories assumed cause & effect links metaphors stories

people often act on imaginaries

people often act on their models of the systems they're in

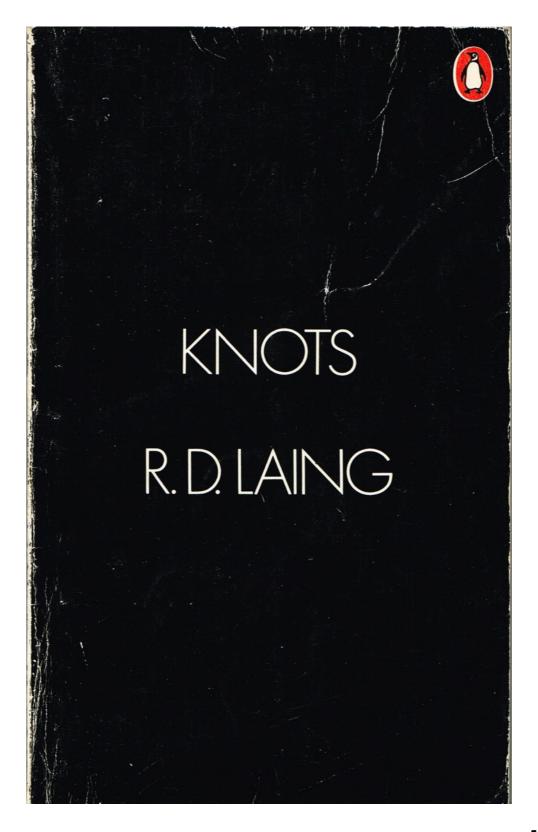
artificial intelligence automation algorithmic decisionmaking personal data and privacy social media 'the Internet'

public health climate change energy resources social equity the law the government the economy quality of life

using design methods to understand how people understand

using design methods to help people understand in new ways

They are playing a game. They are playing at not playing a game. If I show them I see they are, I shall break the rules and they will punish me. I must play their game, of not seeing I see the game.





I get what I deserve I deserve what I get.

I have it, therefore I deserve it

I deserve it because I have it.

You have not got it
therefore you do not deserve it

You do not deserve it

because you have not got it

You have not got it

because you do not deserve it

You do not deserve it therefore you have not got it.

You are frightened of being boring, you try to be interesting by not being interested, but are interested only in not being boring.

You are not interested in me.
You are only interested that I be interested in you.

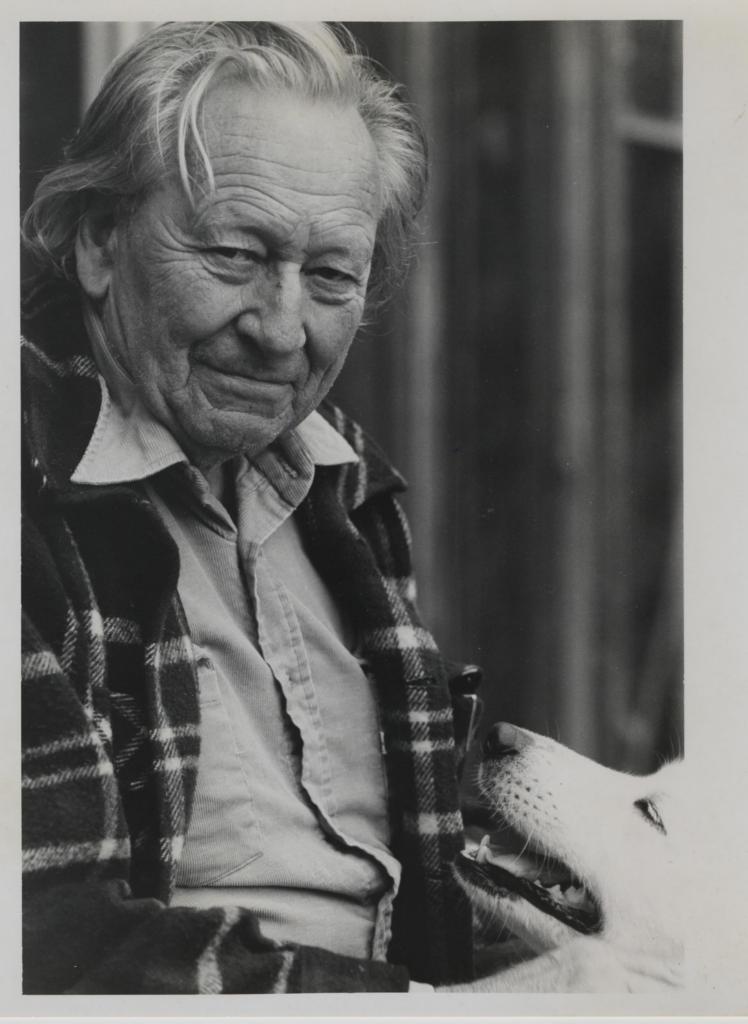
You pretend to be bored
because I am not interested
that you are frightened
that I am not frightened



Many of Laing's knots are essentially about people trying to understand what someone else understands about them

Or about how someone understands their relationship with a system

But that understanding changes how they relate to the system, and the system in turn then changes the relationship



Double binds

(Gregory Bateson)

Contradictory injunctions on a person, often acting at different 'levels' of a system

No right answer; fulfilling one demand means you fail to fulfil the other

Can't opt out, can't resolve it

I am not entitled to what I have therefore therefore everything I have I've stolen it is stolen because because I'm not entitled to it

How are knots relevant to design?

One application is in doing user research around people's understandings of artificial intelligence, algorithmic profiling, and 'smart' technologies (whatever that means to people)

Thinking about things that think about how we think



What does it look like when we start having these kinds of thoughts about other actors—not just humans?

And when they start having these kinds of thoughts' about us?

(What 'models of people' are being designed into algorithms?)



More generally, though:

Knots offer a way of enabling recursion, reflexivity, theory of mind, and second-order effects in systems to be explored through a variety of narrative formats

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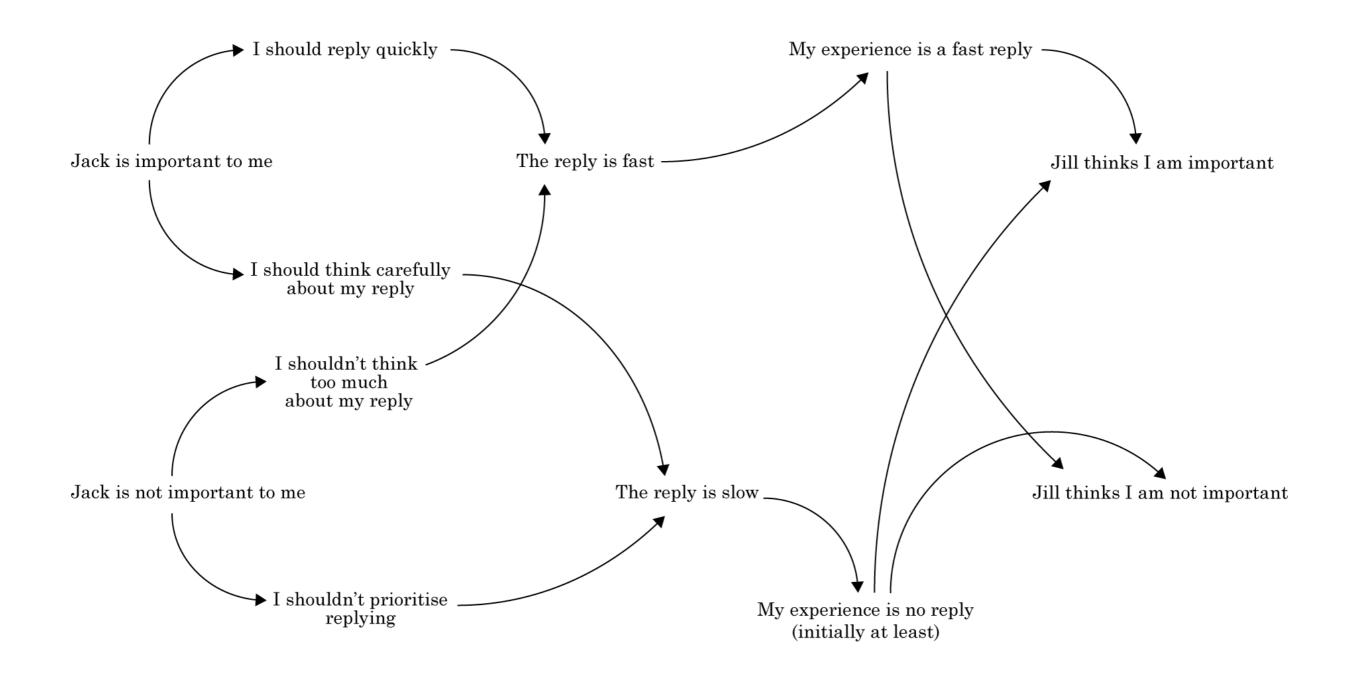
Opening a snapchat from someone you're interested in romantically

Waiting to open the snapchat to seem like you don't care

Opening their snapchat and not responding for days to seem like you don't care

Opening their snapchat and typing in the text block so that they get a notification saying thet you're typing but then erasing your text and not responding for days so that they think you were going to respond but changed your mind and decided not to and they overanalyze it





'Your experience of me is invisible to me and my experience of you is invisible to you...

[but] I cannot avoid trying to understand your experience, because although I do not experience your experience...

I experience you as experiencing"

RD Laing, The Politics of Experience, 1967

Jill likes Jack
Jill hopes Jack likes Jill
Jill hopes Jack thinks Jill likes Jack
Jill worries Jack thinks Jill doesn't like Jack
Jill worries Jack thinks Jill likes Jack too much

Jack doesn't like Jill Jack hopes Jill doesn't like Jack

Jack hopes that Jill likes Jack even though he doesn't like her

Jack doesn't like Jack

Jill likes Jack
Jill hopes Jack likes Jill
Jill hopes Jack thinks Jill likes Jack
Jill worries Jack thinks Jill doesn't like Jack
Jill worries Jack thinks Jill likes Jack too much

Jack doesn't like Jill Jack hopes Jill doesn't like Jack

Jack hopes that Jill likes Jack even though he doesn't like her

Jack doesn't like Jack

thinks hopes worries

KNOTS IN BEHAVIOUR CHANGE

My attitude must be wrong

because my behaviour is wrong

because my attitude is wrong

How can I change?

I want to change

does that mean my attitude is right?

then I don't need to change

but I want to

I will change my behaviour

when everyone else does

otherwise there's no point

KNOTS IN THE SMART HOME

YOU I don't want you to know more about me

YOUR HOME Why?

YOU I shouldn't have to tell you

YOUR HOME If you don't tell me, I can't give you what you want

YOU How do you know what I want?

YOUR HOME I don't, unless you tell me more about you

KNOTS AND CLICKBAIT

It's shocking so I click on it

It's shocking so I click on it

any more

We want them to click

It's shocking They click on it

It's shocking They click on it

so show them shocking things

Teaching this to design students is a way of adding to their conceptual vocabulary, but what about research with people?

How can we use knots (and double binds) as a concept to help people explore their relationships with systems?

Can we untangle them Should we? (Is it inherently 'wicked'?)

What could it look like to turn knots into a form of probe or interview tool?

Could we actually physicalise it with string?

Data Physicalisation



New Ways To Think, Fall 2018

KNOTS AND THE SMART FRIDGE, OR THE OLD SAUSAGE*

I am vegetarian
I don't like sausage
My friend is not
She came to stay
She brought sausage
She left some

My fridge has sausage in it I don't eat it

Your fridge has sausage in it

My fridge has sausage in it I don't eat it

Your fridge has sausage in it

My fridge has sausage in it I don't like sausage

Your fridge *always* has sausage in it You must really like sausage

Let me order you some more

