not yet invented

design space, ideation and brainstorming



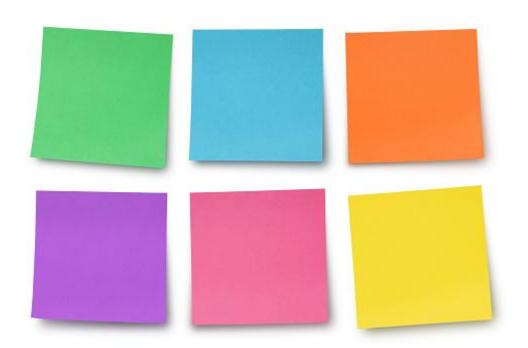




media from the past

think about ancient past, the last century, discarded media





media you use now

think types of media have you used recently, both consume and create



futuristic media

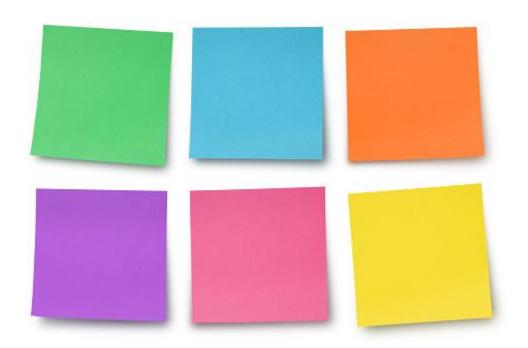
think films, sci-fi, books, comics





unrelated object + place/space

two or more post-it notes, any object ok, any place or space ok!

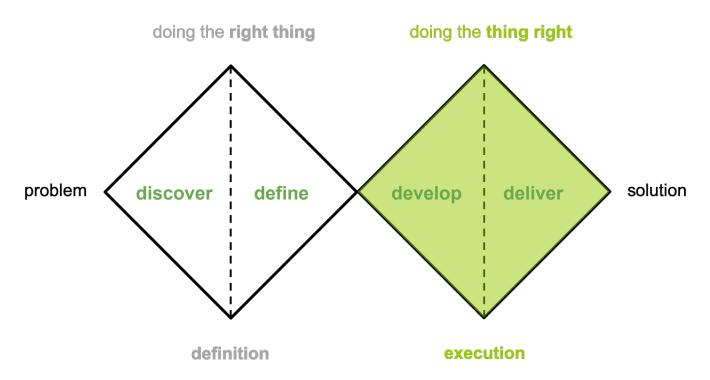


available materials

what do we have in the room to work with?

the plan today

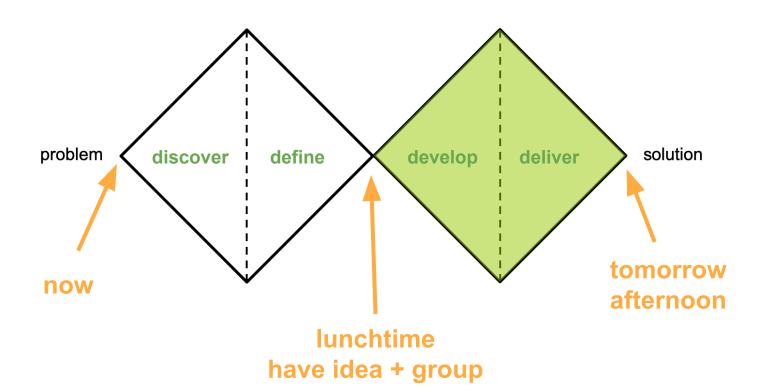
- By lunchtime... think up a new form of computational media!
- It has to fit the brief:
 - That it is interactive
 - That it has sensing / has sensors
 - That it can draw (loosely speaking!)
- A simple task? Or do we need some structure?



Double Diamond

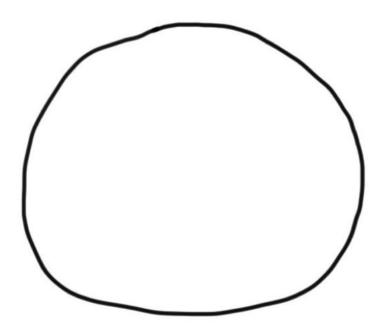
A way to conceptualise the process of design, involving divergent and convergent thinking.

https://www.designcouncil.org.uk/news-opinion/what-framework-innovation-design-councils-evolved-double-diamond

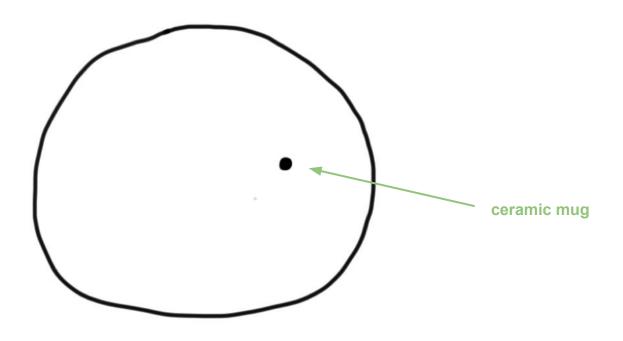


Design Space

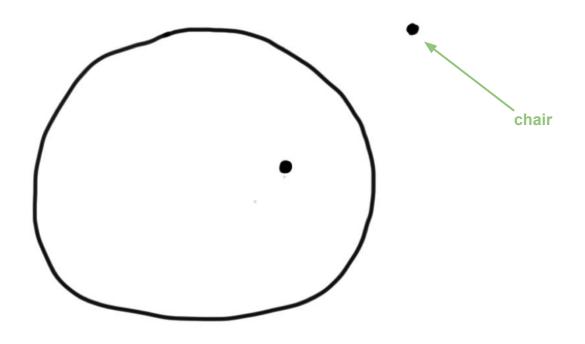
.... how to navigate through endless design possibilities and never get stuck for an idea ever again



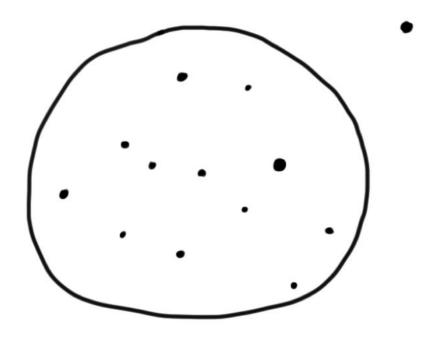
start by setting the brief, say "design a new device for drinking tea" - this is your design space



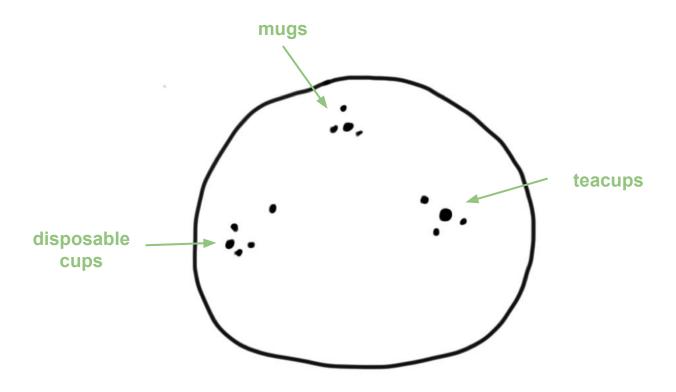
all possible solutions go inside the design space



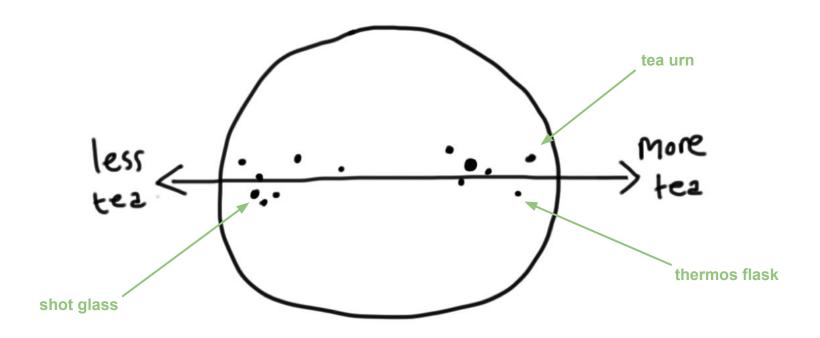
and non-solutions go outside of the design space



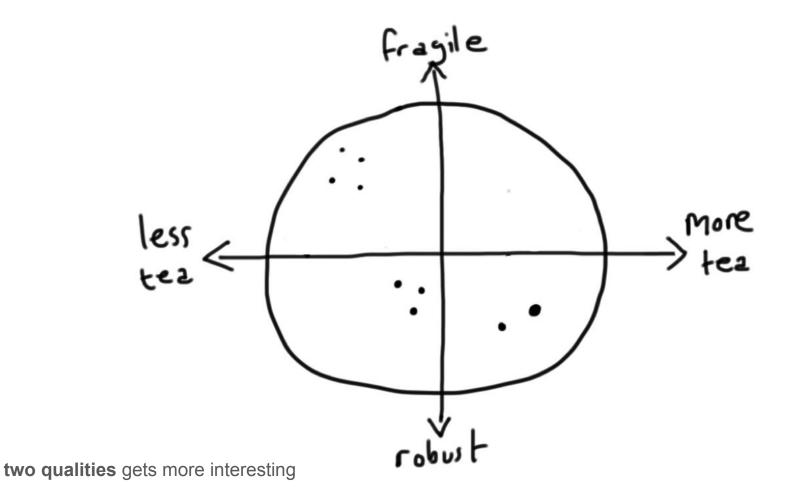
a starting point is to **discover**, **collect and explore** existing solutions (lists / pinboards / lit. survey)

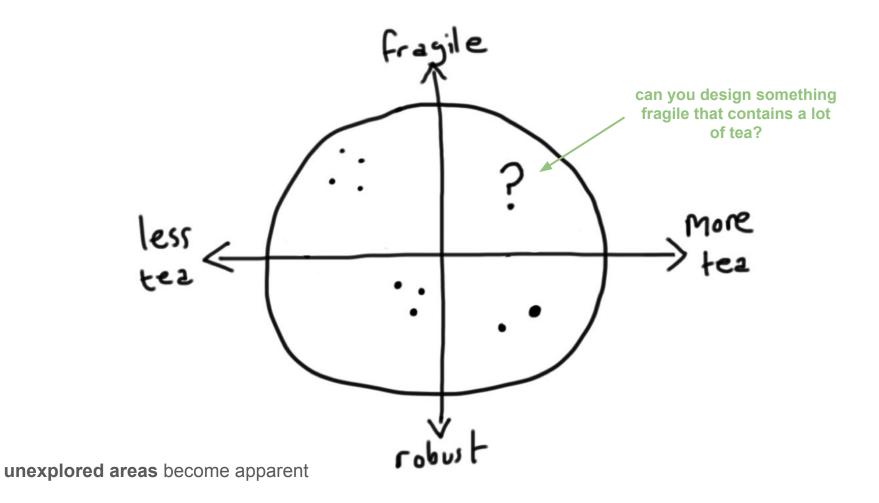


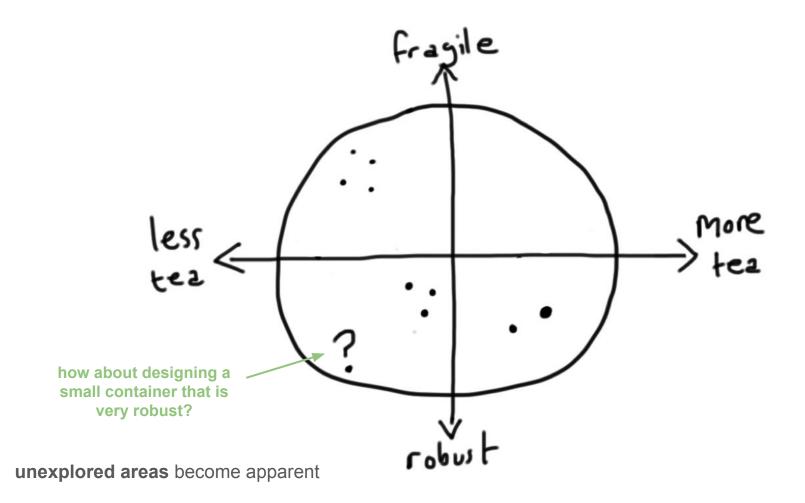
thematically grouping the existing solutions makes things easier to discuss

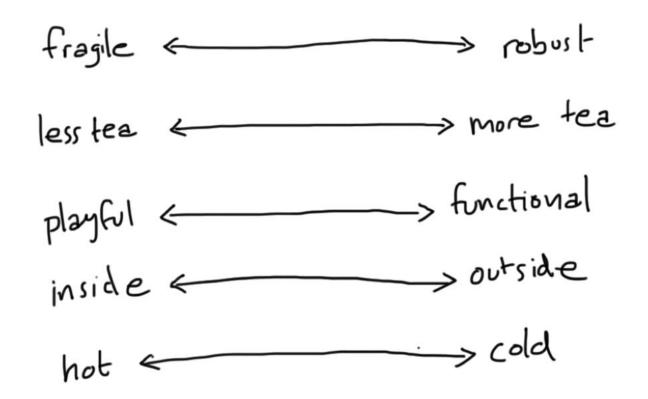


another way to explore design space is by introducing qualities, looking at one aspect of the design





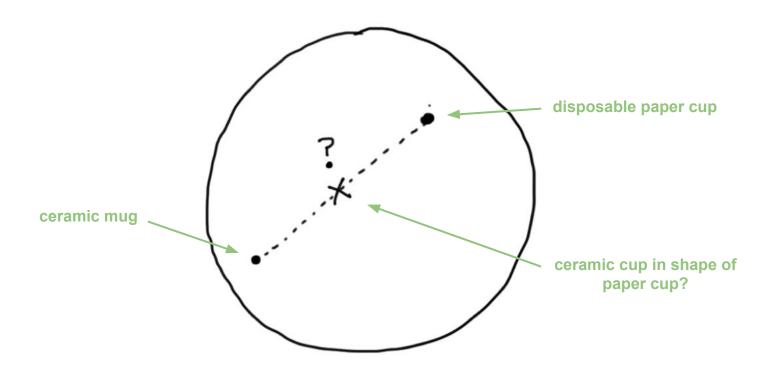




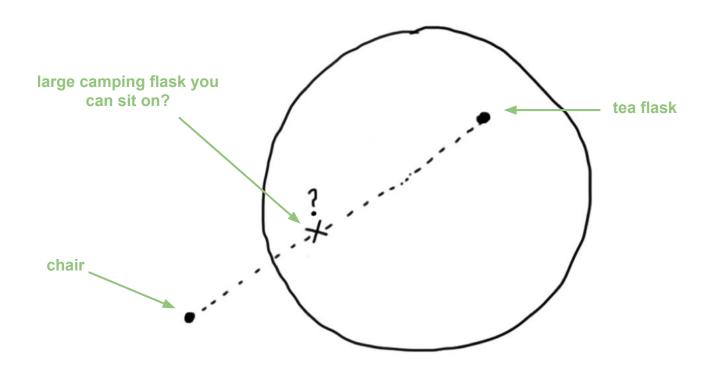
building a vocabulary around your design space

design space techniques

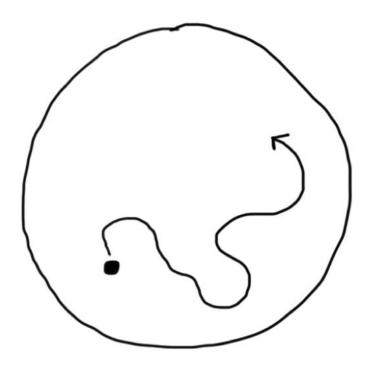
.... but how do I use this to generate new ideas?



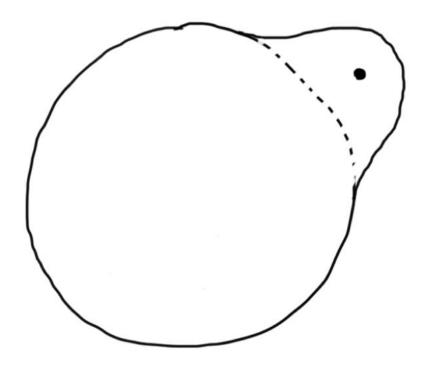
juxtaposition - take two unrelated ideas and see what is in between, slide closer to one, then the other



you can even **juxtapose** with something that is not even a solution

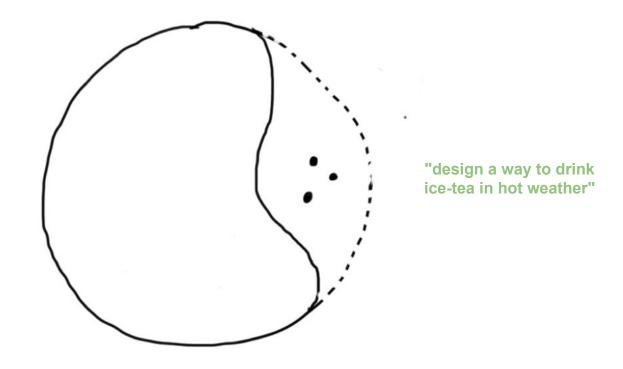


iterate on only one idea - stick with it and see where you end up

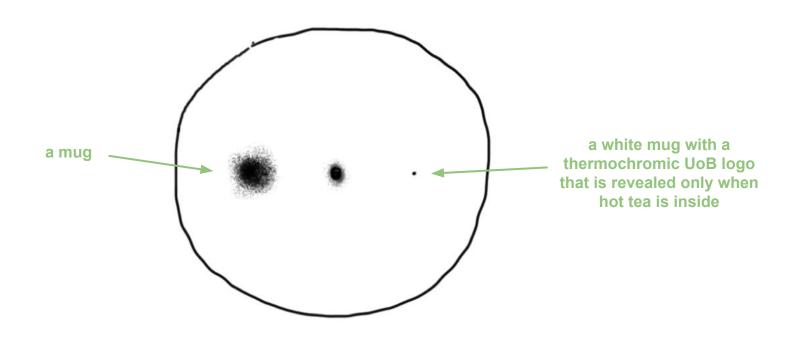


"design a whole range of tableware for a cafe"

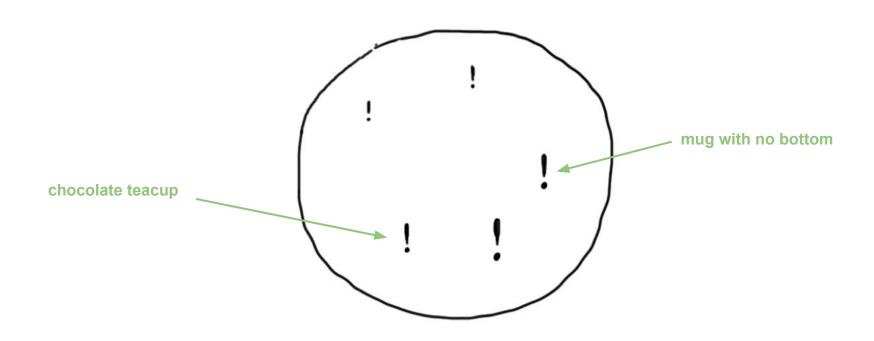
remember - you can **redefine** your question or brief



I would recommend redefining your brief to make it more specific



is your idea ambiguous or very specific? ...pay attention and don't get stuck at one level



map out **all the bad ideas** your team can think of, this way you know what to avoid!

humour is also a great aid to creative thinking, irreverent and humorous suggestions are essential

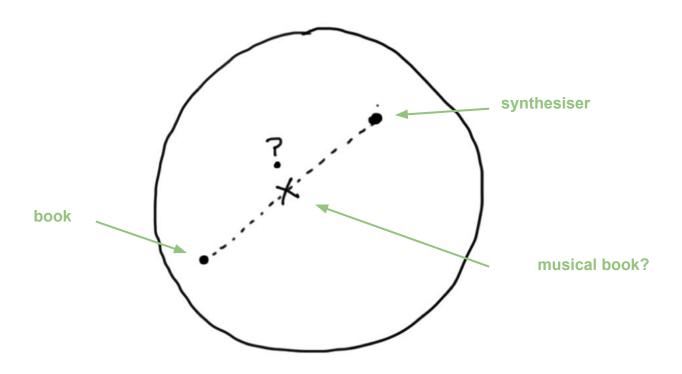


come up with your **own ways to navigate** design space!

the main thing to do is think about how you are thinking ... be reflective about process

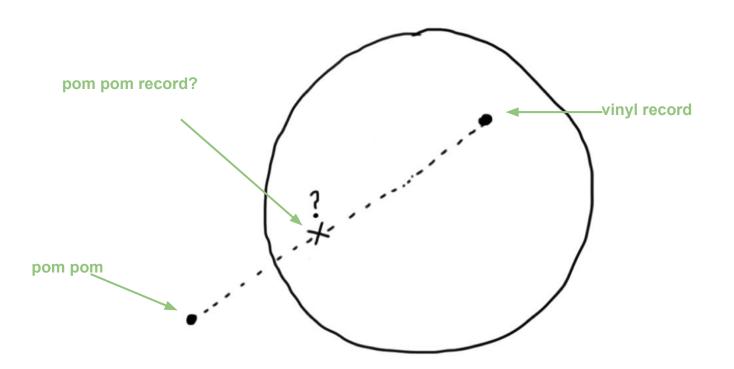
time to generate new ideas!





take two post-its and create an idea in-between



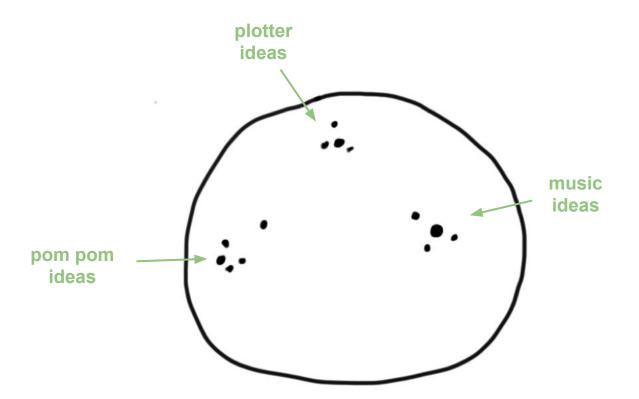


merge a random object with a type of media

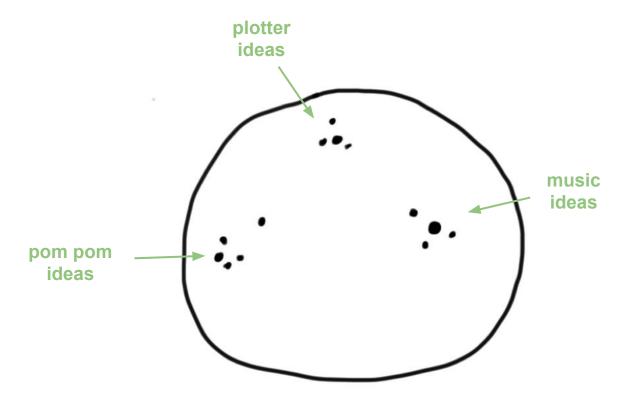


- loudon < fragile < -> more tea less tea < -> functional playful < -> outside inside < \rightarrow cold

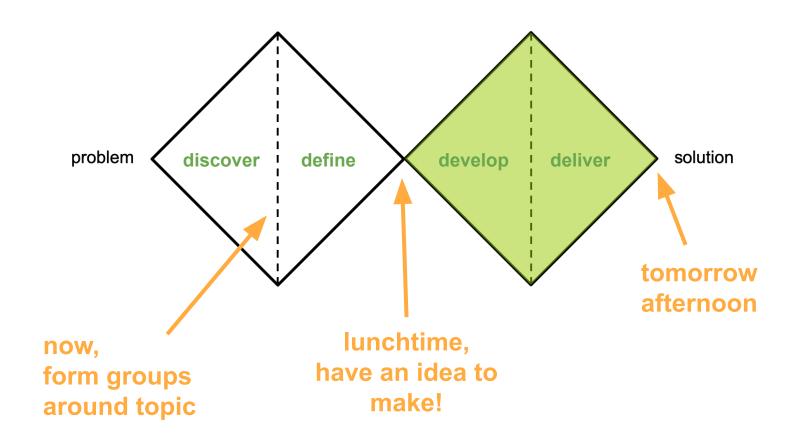
build a vocabulary (write on board)



group post-it notes



now form teams around the groups



continue to refine idea in your new group



- **group** try organising your ideas thematically
- **juxtapose** take two (or three!) post it notes, what lies between?
- iterate concentrate on one post it note, see how far you can go?
- redefine focus on the rewriting the brief
- bad ideas try out some terrible ideas
- vocabulary build up a selection of unique parameters
- gaps look for gaps in your design space

stuck? - try introducing some new post-its with a person, actions, emotions or moods to mix things up and bring a new perspective.

