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Design trends revolutionizing the entrepreneurial and corporate ecosystems in tech.



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ARTIFICIAL

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GENERATIVE

Simon's Scissors: Context and Cognition



Scissors Photo by Matt Artz on Unsplash

AĖSTHETIĊS

Source: Dan Lockton, "Simon's Scissors and Ecological Psychology in Design for Behavior Change" in SSRN Electronic Journal, Aug 2012.

context

- 1. Select a large language model**
- NEWER (\$\$\$)
- OLDER (\$)

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- Davinci
- Curie
- Babbage
- Ada

The OpenAl universe also includes Codex (for generating computer code) and the new ChatGPT model

- 2. Create the core prompt
 - Make your wish.
 - Be specific about the outcome, length, format, and style.
 - Use precision in how you prompt.
 - When referring to text to act upon, delimit it with """ (3 double quote marks) or ### (3 hash sign marks).

- 3. Add in useful context
 - Give one example of how you'd like your prompt to behave.
 - Give multiple examples of how you want your prompt to behave.
- When you don't give guidance with examples, that's "zero shot." The other cases are called "one shot" and "few shot."

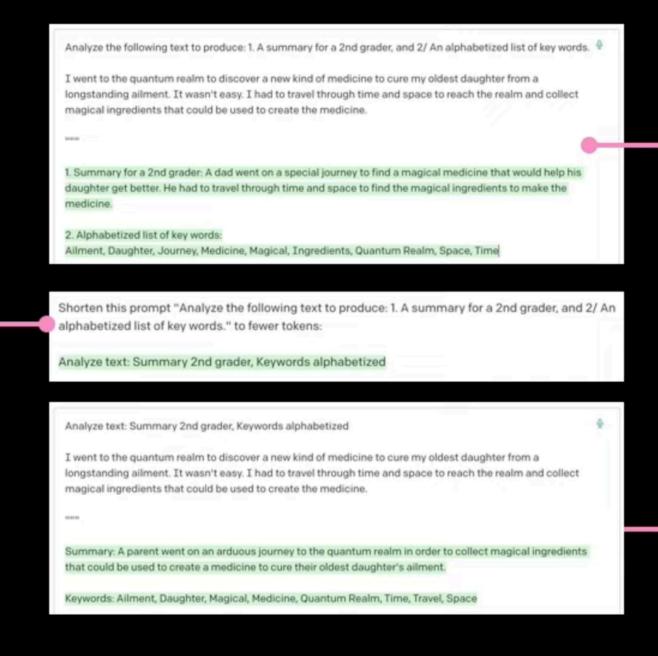
- 4. Tune the model's settings
 - Set the temperature high to make it more random; lower the temperature to make it more deterministic.
 - Alternatively, adjust the "p" parameter to broaden or narrow the range of words that will be generated in response.
 - Give it more tokens when you need to work with longer prompt or longer responses.

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A. Shorten an often-used prompt

- You can reduce** the amount of tokens that get used by finding a similar but shorter version of a prompt.
- This way if you're using the prompt a lot, you're not using up as many tokens in a cumulative sense.

**One DiT survey responder suggested using Quillbot.



B. Go for a two-fer or three-fer

Sometimes with one prompt you can get multiple things done.

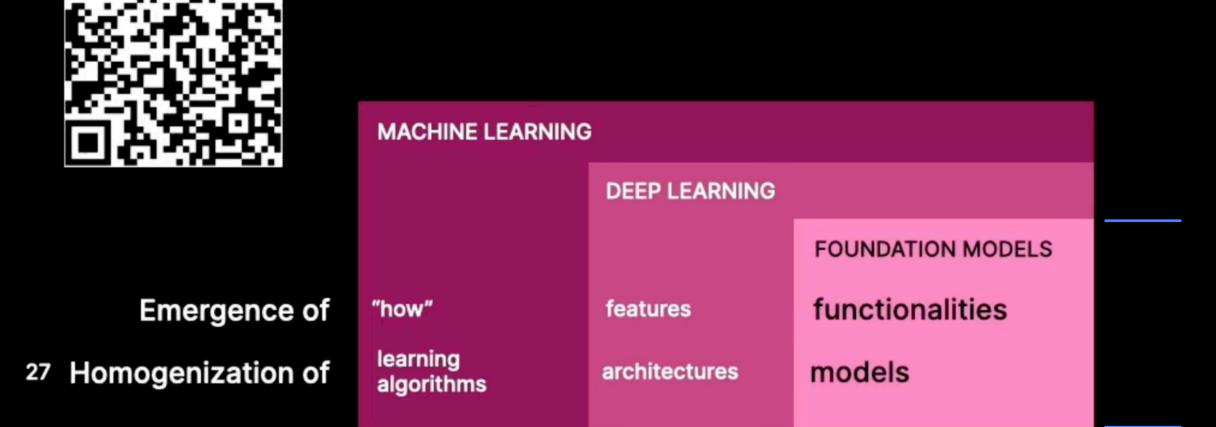
- C. Use "chain of thought" prompting
 - Getting a model to use our own human tendency to "think out loud" has been shown to produce more accurate outcomes.
- When prompting, give an explicit "thinking out loud" explanation for how a problem is to be solved with your related reasoning.

Playing with the OAI tokenizer https://platform.openai.com/tokenizer gives you valuable insights on how it "eats" text. And learn more about how "chain of thought" prompting works via https://arxiv.org/abs/2201.11903 asap.

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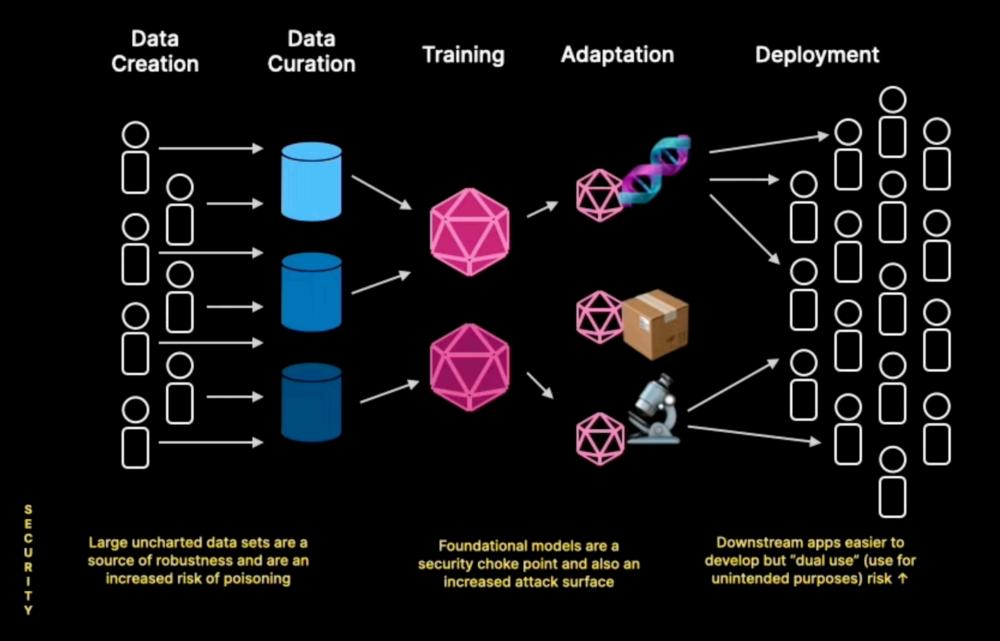
Stanford HAI "On the Opportunities and Risks of Foundation Model" (2022)



1. While new capabilities emerge, our reliance on a more homogenized approach creates a single point of failure.

TIME |-----

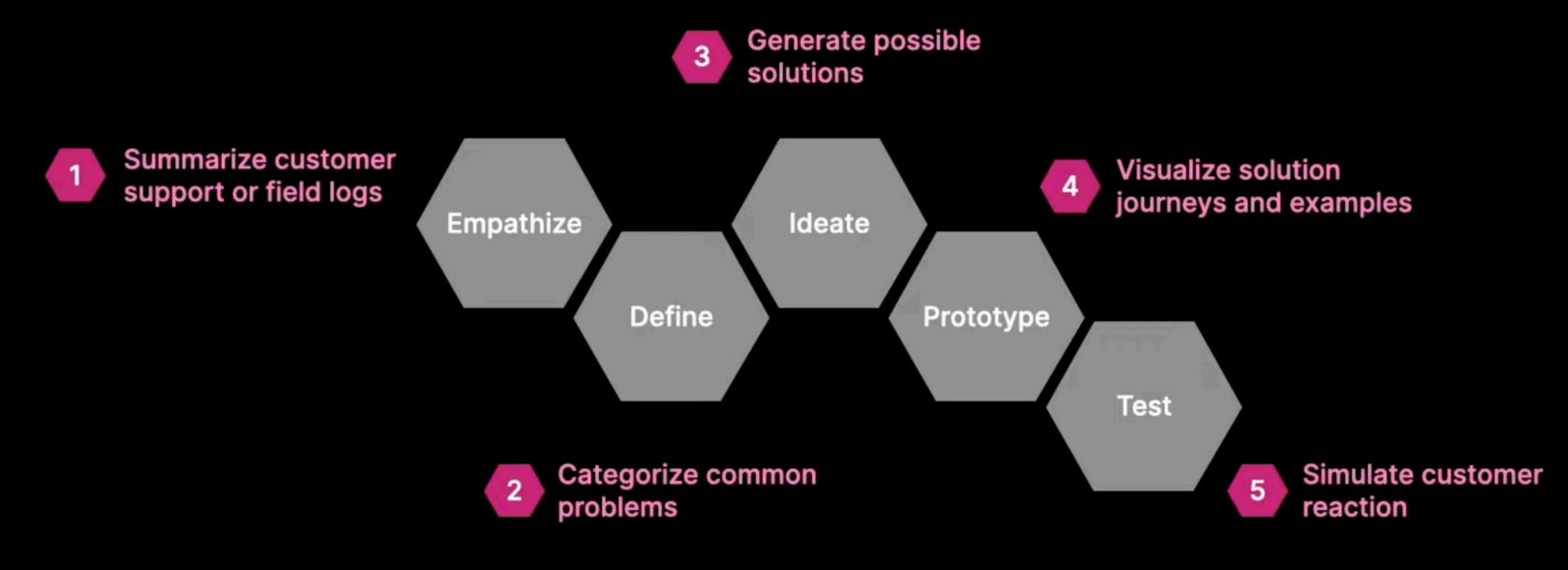
2. Ultimately, all of this modeling eventually gets deployed to real people. And the implications at the scale of millions are huge.



It's the most comprehensive take on the pros and cons of pretrained foundation models as a ~160 page "weapon of understanding" with 30 pages of references — if you're new to this space, it's a godsend.



Source: https://arxiv.org/pdf/2108.07258.pdf

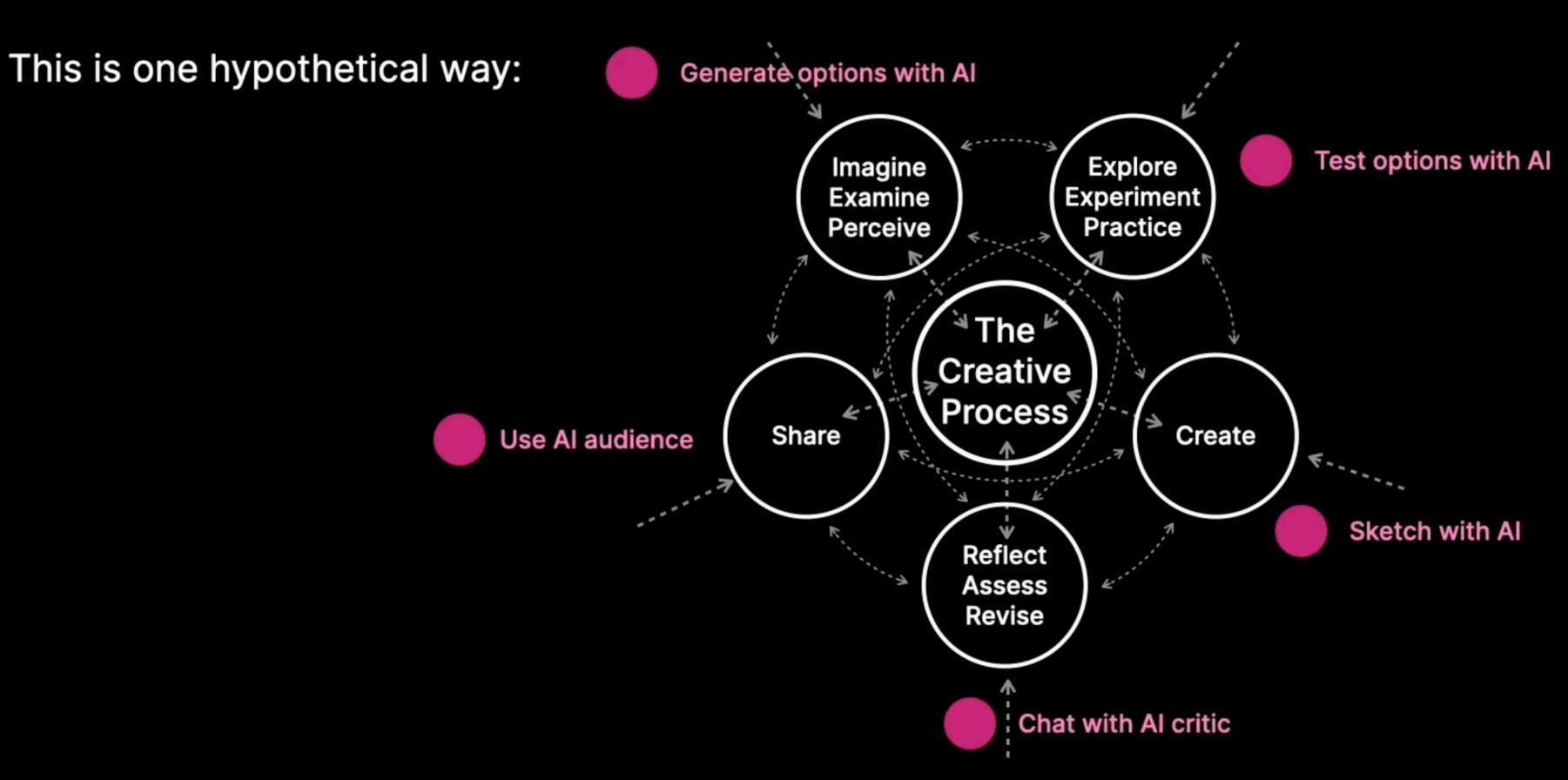




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DESIGNINTECH.REPORT

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AĖSTHETICS



"DOES NOT SPARK JOY"





- Calendar Management
- Making Powerpoint Decks
- Cleaning Data
- Low-priority E-mails
- Competitive Research
- Summarizing
- Monitoring / Alerts
- ...

- Decision Making
- Talking With People
- Learning With Others
- Mentoring / Coaching
- Relationship Building
- Delivering Presentations
- Crafting Strategy

• ...

I run a poll regularly in large groups of what people prefer not to do at work versus what they really love doing at work. It turns out there's tons of things that don't spark joy in the workplace. Ya think? <wink>

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2005

Simplicity is about living life with *more* enjoyment and *less* pain. enjoy/consume

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-

Think of how to use Al to get rid of things you don't really want to do.



So that you have more time to do more of what you love to do.



2023

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IMAGINATIVE

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AESTHETICS

Computational Thinking Is Invaluble

Coding isn't key — but understanding computation will help.

Learn how to speak machine.

Work Transformation Is Coming FAST

Prepare for Al-induced shifts in design and tech careers, continually.

It's a marathon, not a sprint.

Be Critical Of Al (For Customers)

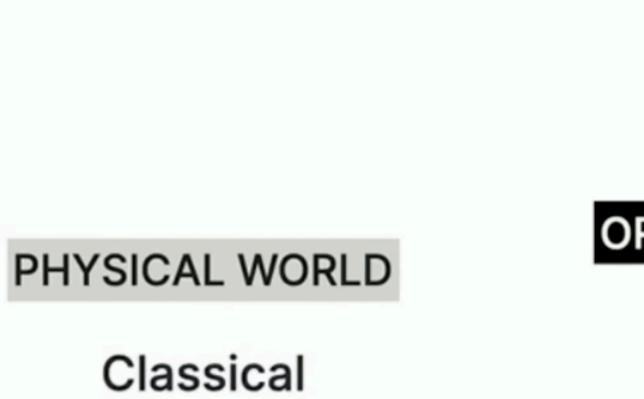
Evaluate Al's impact critically; consider fairness and inclusivity.

Show customers the benefits of responsible Al.



2019

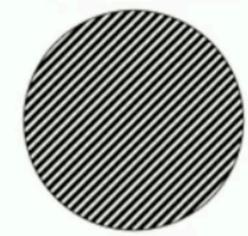
2022



Design

ORGANIZATIONAL WORLD

Design Thinking



Value creation

DIGITAL WORLD

Computational

Design

The trope of, "Speed, price, quality: you only get to pick two" ... gives way to, "you get all three with computational design!" That means undesirable work can get automated so that you can work on the parts that you want. Finally!

krisiljente

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Summary

- Designers tend to care about people as people. Instead of just as prospects or customers.
- Design as a field has evolved to speak more machine, more scale, and more \$\$\$s.
- A lot of work has been done in the design world to birth a new "aesthetics of ethics."
- Speaking human really well will matter more than speaking machine in this next chapter.
- But it's not mainstage because it doesn't sound like "time or \$\$\$s saved" or "new \$\$\$s."
- Next year's report will center around the business value of this new kind of design.
- Good luck to us all!

