AI as a tool

not a crutch

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Let’s talk terms

Large Language Model (LLM)

Machine learning model oriented towards the use of language/words as input and output

ex. generative pretrained transformers (GPTs) such as ChatGPT and Google Gemini

(Large) Multimodal Model ((L)MM)

Similar to LLM, but uses/produces multiple input and output types

Another important distinction

Generative AI

Models used to produce new *data/output based on patterns found in training data*

ex. ChatGPT, Google Gemini, DeepSeek

Predictive AI

Uses statistical analysis and pattern recognition from training data to forecast future data

Maslow had a point…

AI is *a* tool, but not the *only* tool

AI made *this* →

My approach to AI in a larger toolbox

1. Lay out *all* the tools

   Manual, computer-assisted, *and* the “cheater” tools

2. Examine their functions in detail
3. Test the limits of the tools
4. Analyze the value they can and cannot provide

DISCLAIMER(S)

I know my discipline is a little different, but, at the end of the day…

I'm just an audio nerd

Blanket apologies:

I have a 31 day old baby at home, so I haven't really slept in 32 days…

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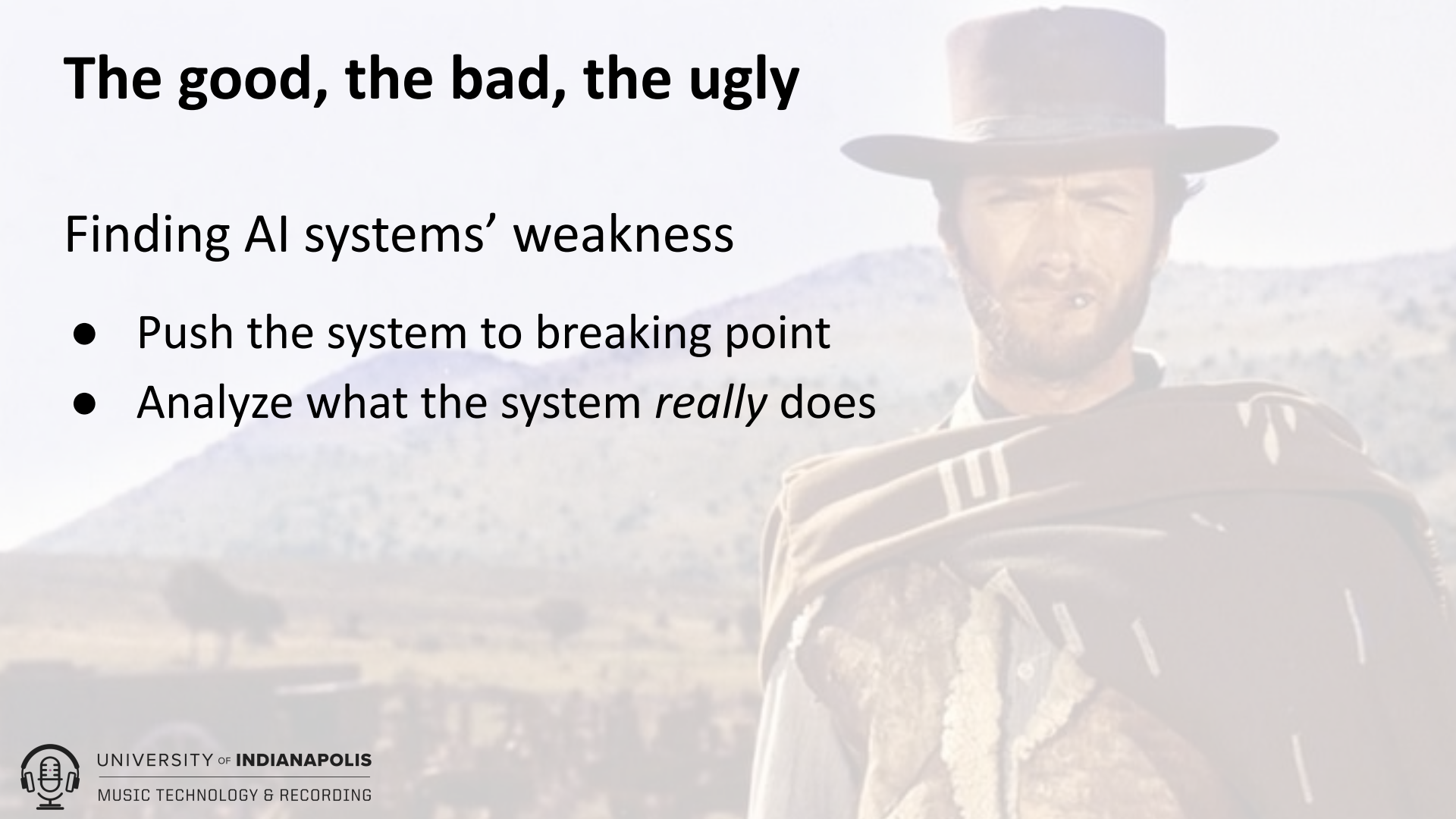
The good, the bad, the ugly

Finding AI systems' weakness

- Push the system to breaking point
- Analyze what the system *really* does



The good, the bad, the ugly

Finding AI systems' weakness

- Push the system to breaking point
- Analyze what the system *really* does
  - For audio: the ø trick!

unmastered

ø

AI mastered

On the flip side…

Finding the strengths

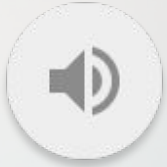
- Gorgeously generic

On the flip side…

Finding the strengths

- Gorgeously generic
- A place to start

unmixed



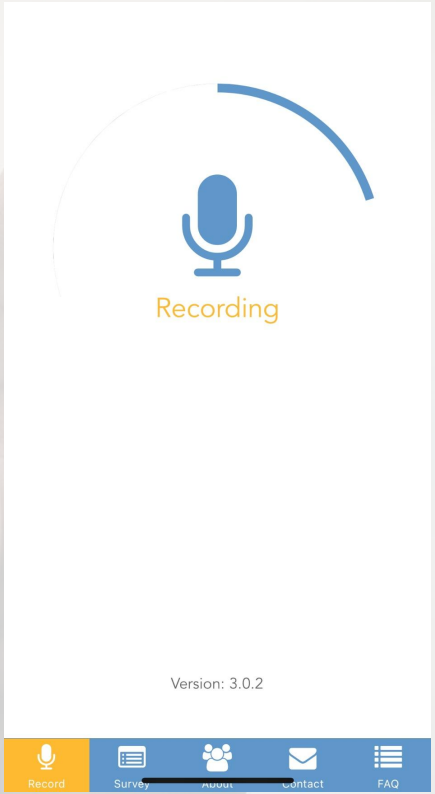
AI mixed

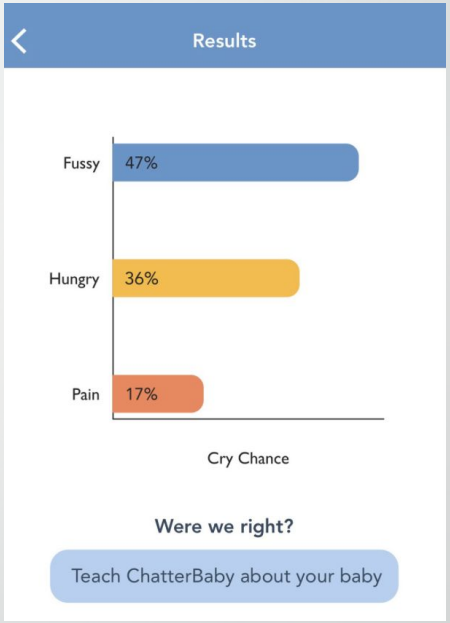
AI + human mixed

On the flip side…

Finding the strengths

- Gorgeously generic
- A place to start
- Something we *can't* do





Where *can* AI help?

- Compare manual and automated completion of processes
  - Notate timings to emphasize efficiencies and inefficiencies
    - e.g. how often do we need to manually correct a problem? What is our confidence in the model's output?
  - Repetitive "mechanical" tasks

Where do AI tools leave us?

- Increase *efficiency*, not increased quality
  - Quickly achieve “minimum viable” quality or “average”
- Suitability for *certain* tasks
  - *Highly* input-dependent!
- Limitations to achievement
  - Median quality will only yield median rewards

Questions?