SketchTrainer

Learn sketching with your favorite subjects!

A two-day hackathon project ideated, prototyped, and implemented by

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What is SketchTrainer ?

- Helps you learn how to sketch and draw
- Step-by-step from basic shapes to final drawing
- AI generated sketch and steps
- Based on an image of your favorite subject
- Boosts your learning motivation

Why did I make SketchTrainer ?

- It's a fun and useful idea!

- Up until recently, sketch generation = edge detection

- What's new? SOTA!
  - OpenAI - ChatGPT 4o Image Generation
    - Image manipulation with attention to prompt details
    - Style transfer with great character consistency
  - Black Forest Labs - FLUX Redux
    - Image variation generation
   - Style transfer with character consistency

How does SketchTrainer work?

- Choose an image of your favorite subject
  - This image was generated by ChatGPT 4o with the prompt "Generate a photorealistic portrait of an imaginary but happy person."
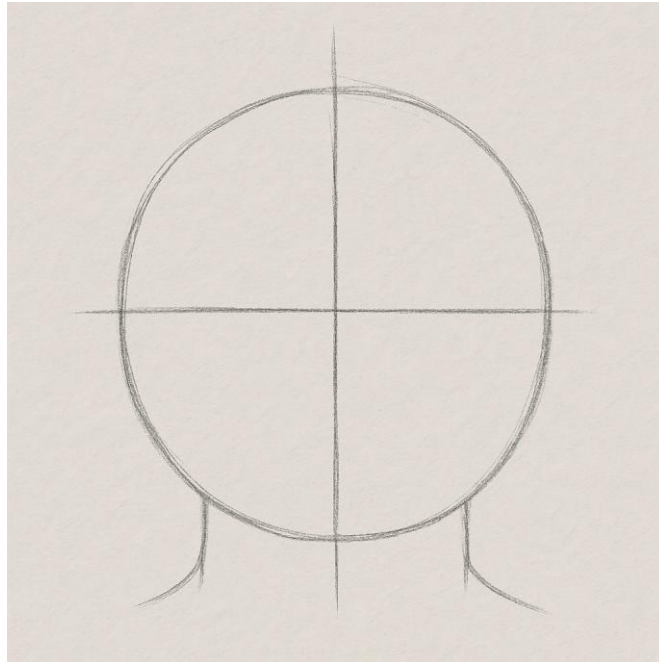

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How does SketchTrainer work?

- The AI generates the steps from basic shapes to the complete sketch and drawing

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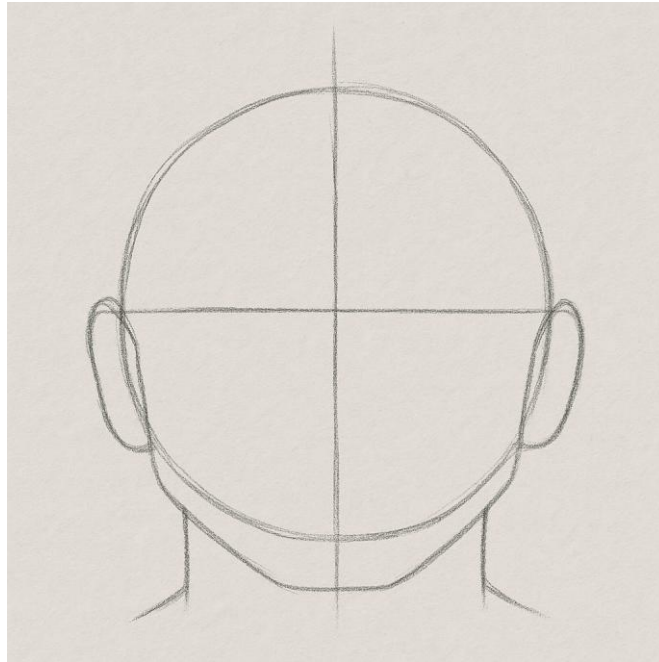
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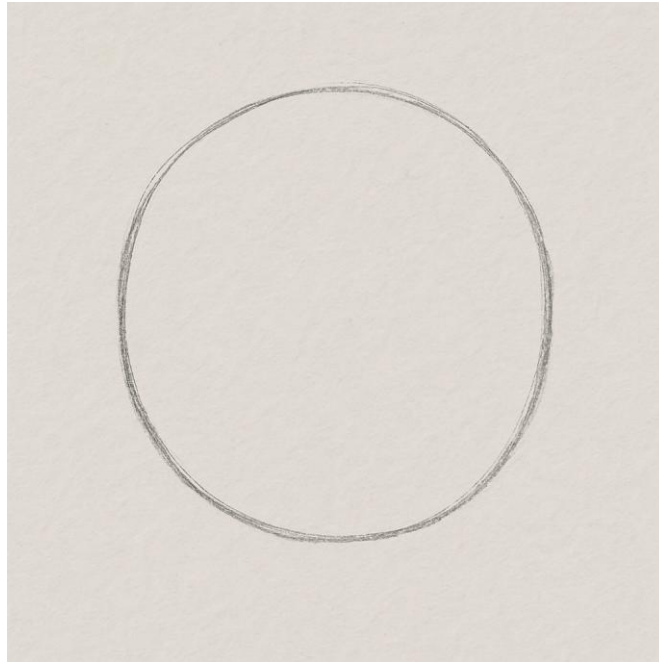
How does SketchTrainer work?

- Each step serves as a tracing guide (you draw on top)

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How does SketchTrainer work?
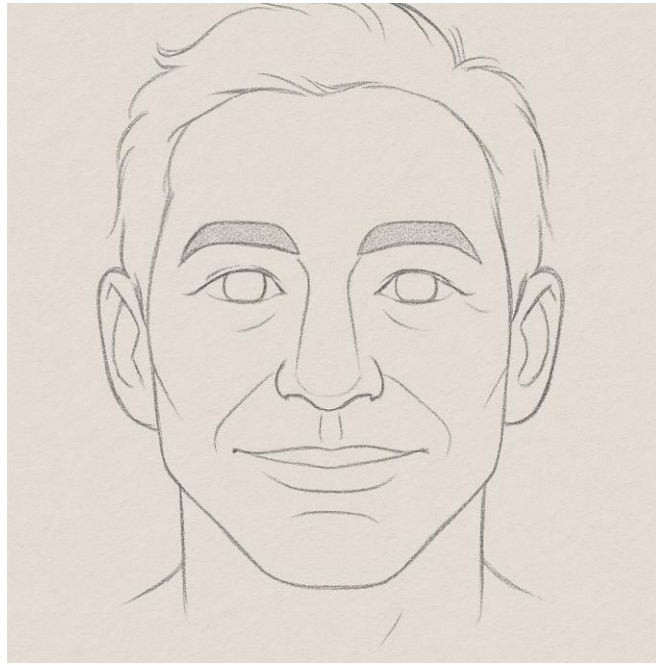
- Whenever you're ready, move on to the next step

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How does SketchTrainer work?

- Every step adds a little bit more detail — feel free to erase and adjust!

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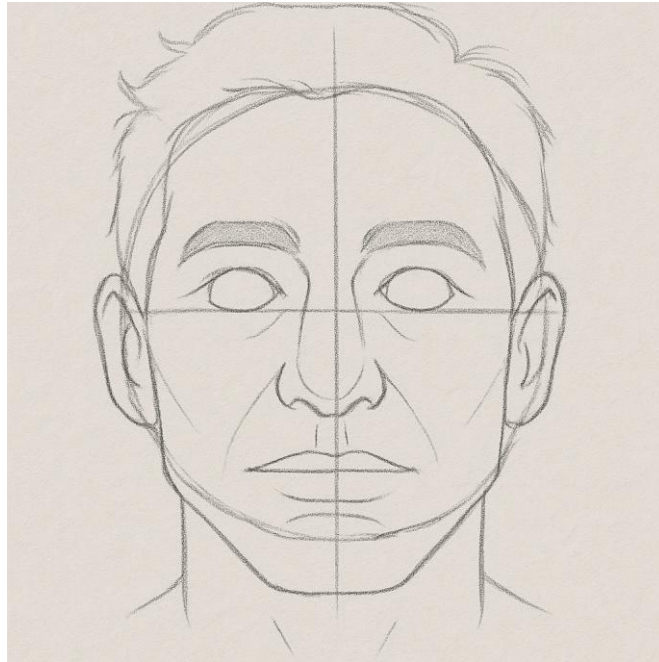
How does SketchTrainer work?

- The sketch starts to come to life

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How does SketchTrainer work?

- Next come the shadows and some hatching

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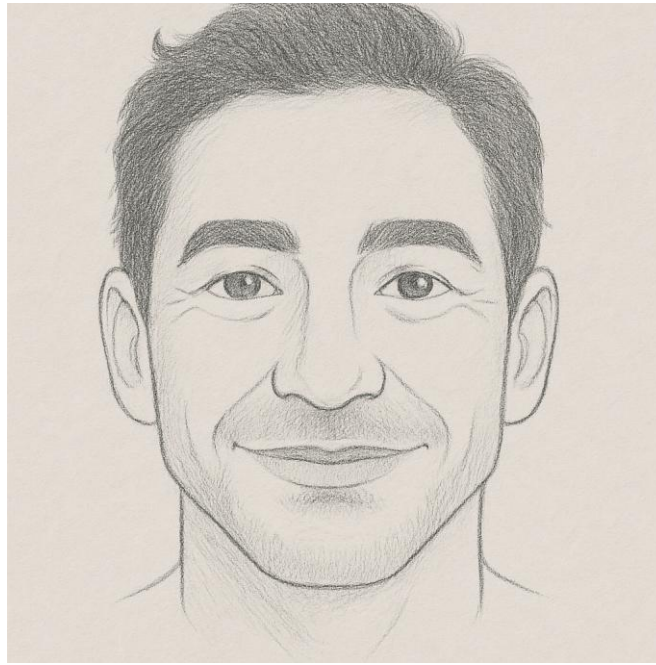
How does SketchTrainer work?

- Now we can focus on intricate details

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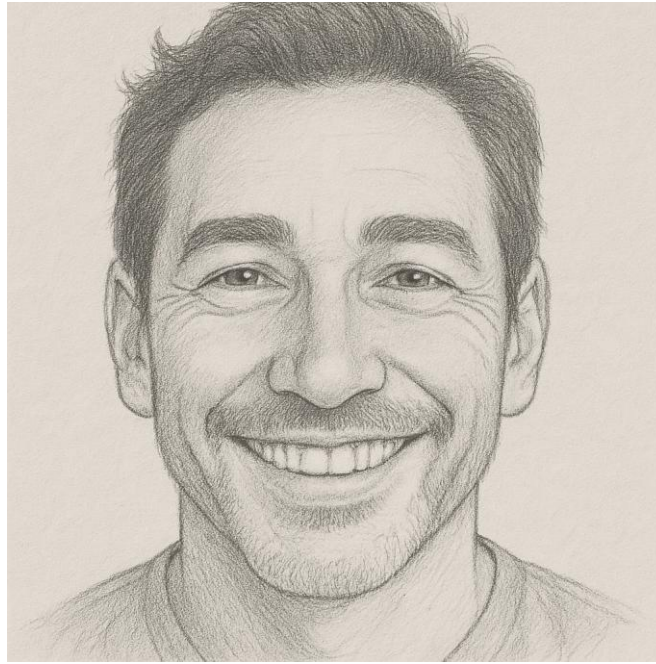
How does SketchTrainer work?

- Here's the final drawing!

- Everything you saw was purely done with prompting!

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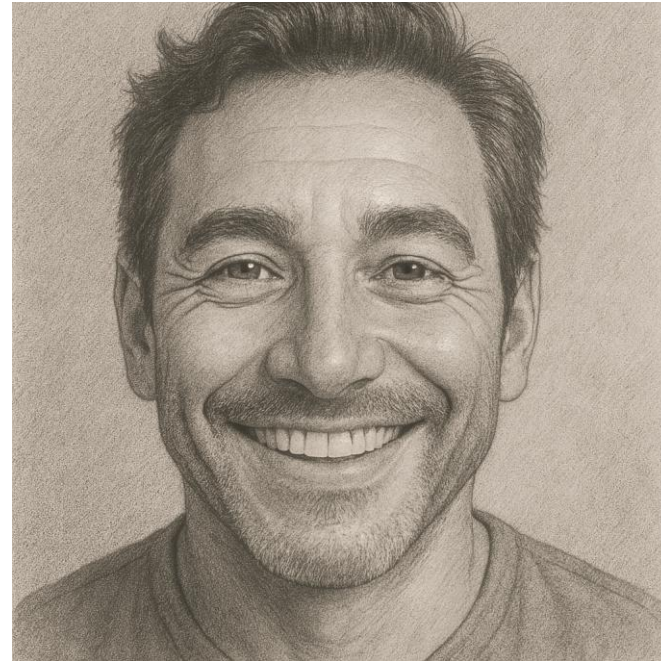
Let's demo SketchTrainer!

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Next features?

- Implement an actual iOS app with PencilKit (Apple Pencil)
- Generate a sketch in any style you want
  - Studio Ghibli, Renaissance, Caricature, etc.
- Customize the steps
  - Skip basic steps or add more steps
  - Focus on details you want to learn (e.g. shadows)
- Regenerate step variations based on what you've drawn
- Learn "step prompts" from human-made drawing tutorials
- Sky is the limit

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Here's the GitHub repository!

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