# Topics in ITP: Whatever Generative AI is Doing Now

## YouTube Class Playlist

- 👓 To access manually created transcriptions, click on “Settings,” then “Subtitles/CC” and choose “English”

## Workflows Folder

## **Week 1: Intro to ComfyUI and Stable Diffusion**

- Recordings, slides, and notebooks
  - A lecture I gave recently about my work
  - Week 1 Lecture
    - Slides
    - Recording
  - How does Stable Diffusion work?
  - Upload Models to RunComfy (helpful for local installs too!)
  - Using the ComfyUI Manager to install nodes (example: ComfyUI-N-Sidebar)
  - An overview of Samplers (Not my video, explains it better than I could 😂)
  - NEW! Running ComfyUI from Google Colab
- Homework
  - **Experiment with different base models.** At the bare minimum I encourage you to try the difference

between SD 1.5 and SDXL, but try other models that are available in RunComfy as well.
    - **Experiment with different samplers, steps, and seeds.** Do you find yourself gravitating toward particular set ups?

## Week 2: Prompting Strategies, img2img, and training LoRAs

- Recordings, slides, and notebooks
    - Local extension installations for Week 2 (Unnecessary if you're using RunComfy) (9min)
        - Note: if you're on RunComfy you do need to install the SeargeSDXL nodes—sorry didn't realize I had previously installed it
    - **Week 2 Lecture**
        - Slides
        - Recording
    - How to Find Missing Nodes/Extensions (6min)
    - Prompting for Diffusion Models (32min)
    - Words are Images playlist (previous class on text-to-image tools)
    - NEW! Customizing image models (and why you should use LoRAs)
    - **LoRA Trainers**
        - Train a LoRA and Textual Inversion embedding in Eden.art (15min)
        - Train a LoRA in Civit.ai (19min)
        - Train a Lora in Dreamlook.ai (10min)
        - Kohya_SS Training tutorial (Not mine! 30min)
            - Colab Notebook

        - OneTrainer Massive Tutorial (Not mine! 2+ hours, seriously)
- Workflows made during class:
    - Week 2 Workflows

## Week 3: LoRAs and IPAdapters

- Recordings, slides, and notes
    - **Week 3 Lecture**
        - Slides
        - Recording
    - Derrick's trained LoRAs folder
    - How to Upload Checkpoints/Base Models to RunComfy (8min)
    - How to Upload Eden.art LoRAs to RunComfy/ComfyUI (11min)
    - Using the new AuraFlow models (Colab or local only, sorry!) (14min)
    - LatentVision's (maker of IPAdapter node) YouTube channel
- Workflows made during class:
    - Week 3 Workflows

## Week 4: ControlNets, SD3 & Flux

- Recordings, slides, and notes
    - Local extension installations for Week 4 (Unnecessary if you're using RunComfy) (5min)
    - **Week 4 Lecture**
        - Slides
        - Recording
    - Testing Flux in RunComfy (17min)
    - SOON! Using AuraFlow in RunComfy
- Workflows made during class:

    - Week 4 Workflows

## Week 5: Animation (AnimateDiff)

- Recordings, slides, and notes
    - Local extension installations for Week 5 (Unnecessary if you're using RunComfy) (5min)
    - **Week 5 Lecture**
        - Slides
        - Recording
    - Batch Processing Images in ComfyUI (9min)
- Workflows made during class:
    - RunComfy Pro Workflows
    - Week 5 Workflows
- Homework
    - **Experiment with creating animations in ComfyUI.**

## Week 6: Upscalers, vid2vid

- Recordings, slides, and notes
    - Local extension installations for Week 6 (Unnecessary if you're using RunComfy) (3min)
    - **Week 6 Lecture**
        - Slides
        - Recording
    - Insane Tiled Latent Upscaler
- Workflows made during class:
    - Week 6 Workflows
- Homework
    - **Experiment with different upscalers in your images.**

# Week 7: Attention masking, Creating Custom Nodes

- Recordings, slides, and notes
    - **Week 7 Lecture**
        - Slides
        - Recording
    - ComfyUI Custom Node Docs
    - ComfyUI custom node tutorial
    - Workflows made during class:
        - Week 7 Workflows
        - Workflows made during last week's Q&A