

**100xEngineers**

# **Week 2 Practice Set**

# Exercise 01

It's time to bring all your Stable Diffusion prowess and create something interesting.

Your task is to create "**The Time Capsule Exhibition**"

- a series of 15 images that fit into a timeline showing the evolution and progression of homo sapiens on planet Earth. We will give you the starting points for each of these ages.

For EACH image, you must do the following :

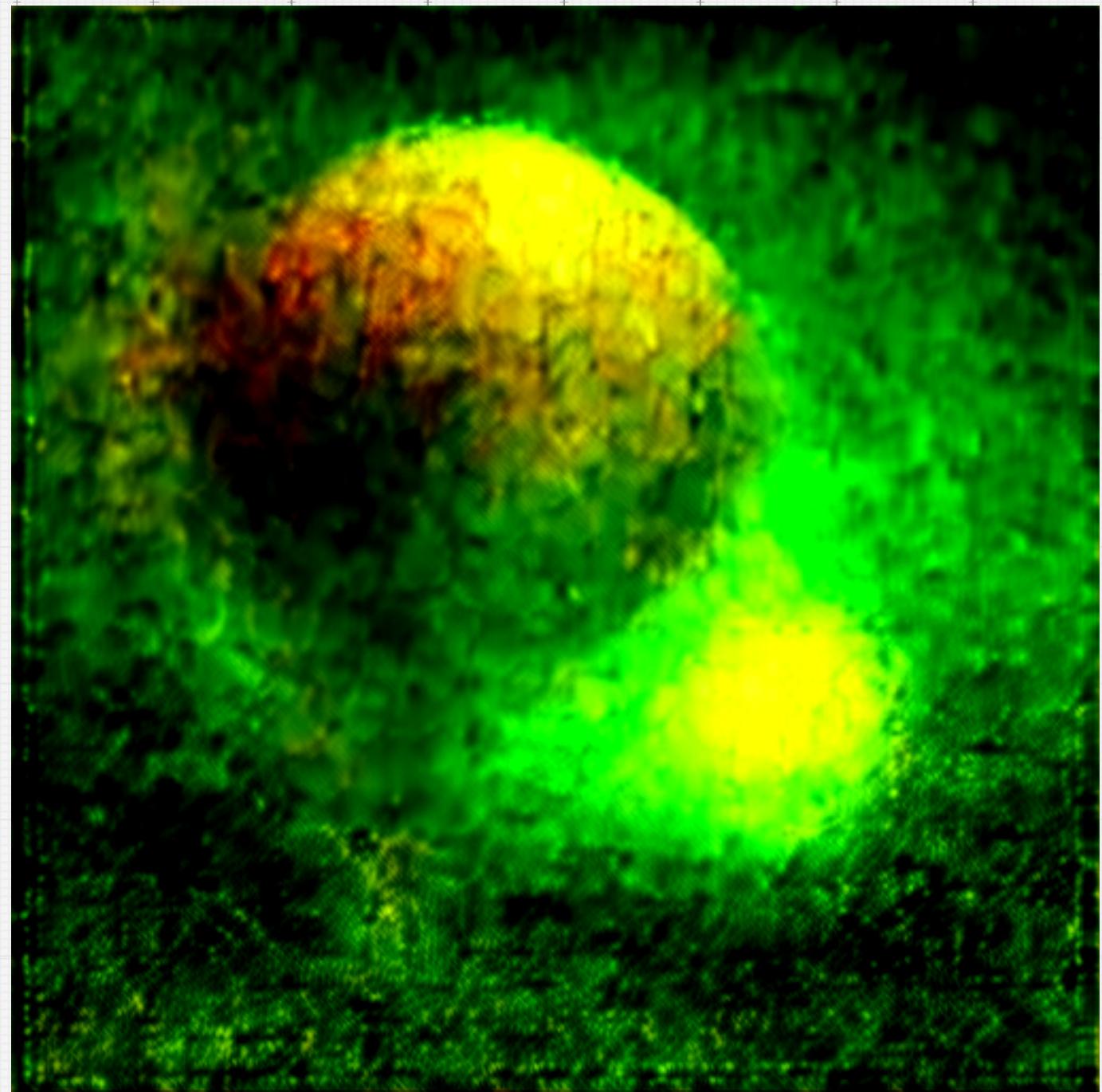
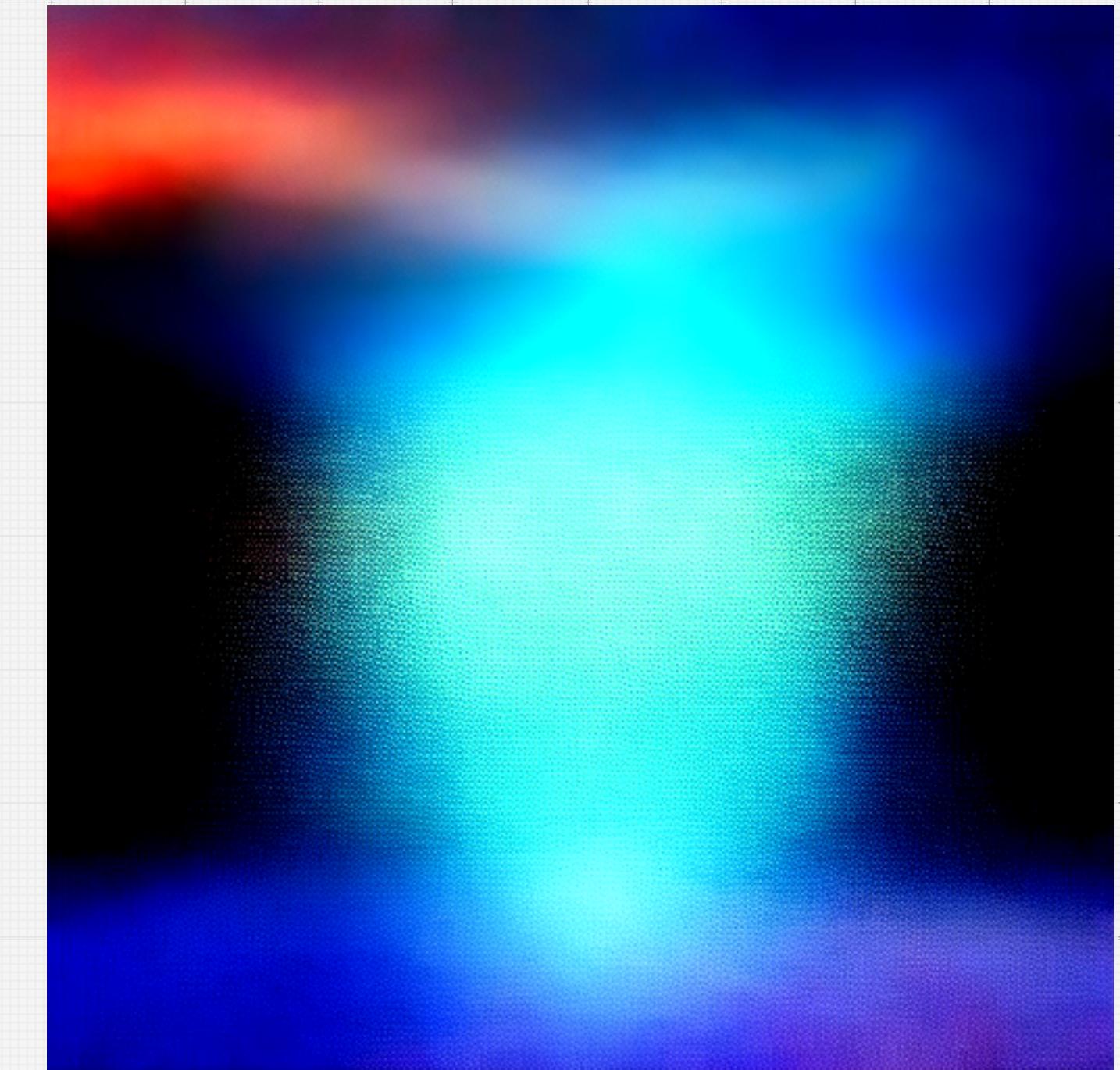
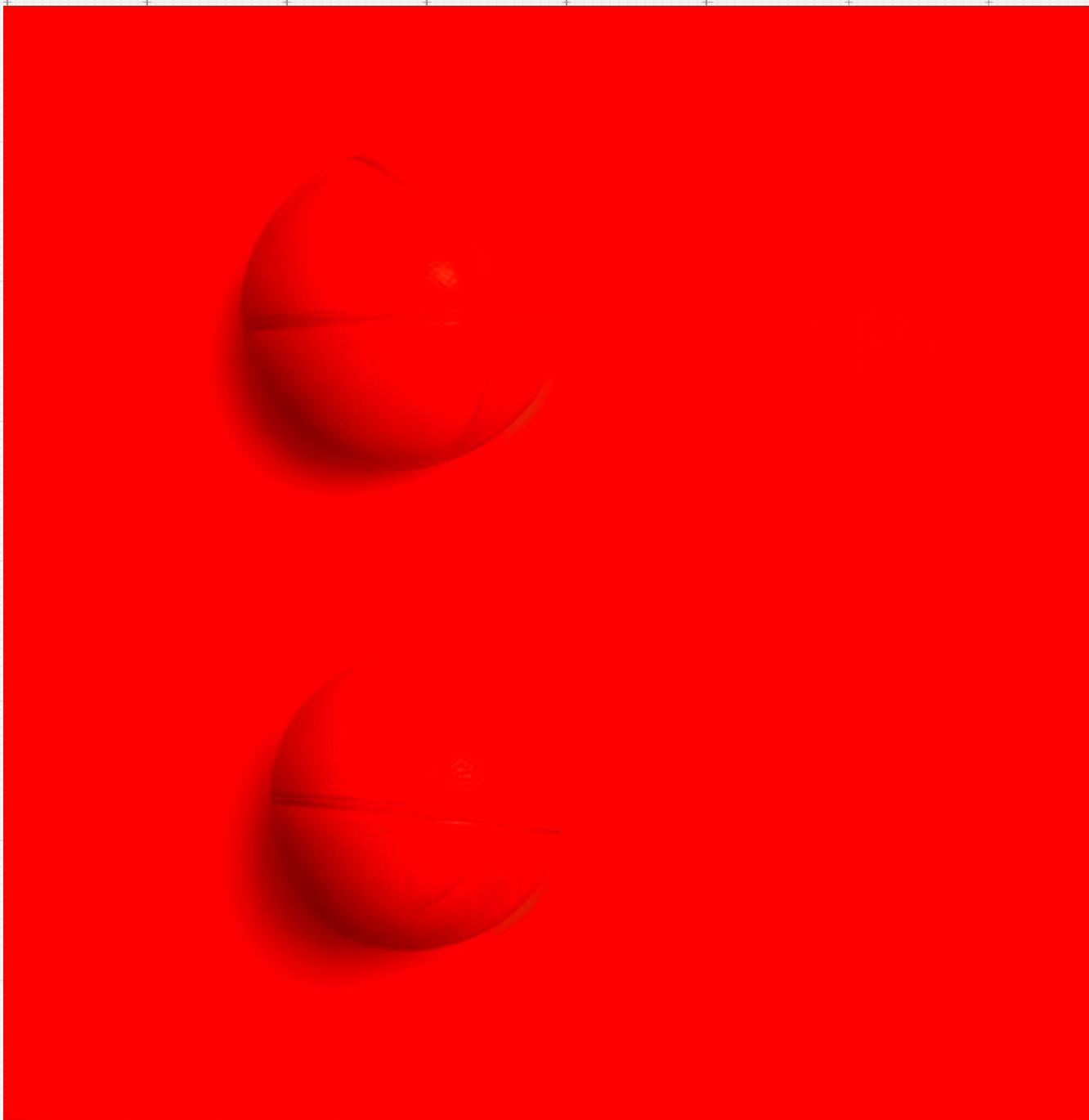
- Generate the relevant image using prompt engineering
- Generate ALL images in the style similar to the image given below (*figure out what the style is. Hint : we gave away a trick in Lecture 4*). Decode ONLY the style, not the checkpoint or anything else.
- All images must be 512 x 512
- All images must be upscaled using a preferred upscaler
- Aesthetically, they must all flow together
- They must not have common AI distortions like hand-issues, tiling, disfigured faces, etc
- Combine all images into a PDF and share it on Discord on the assignments channel

- 1. Dawn of Discovery** - Capturing the Stone Age, with early humans discovering fire or tools.
- 2. Whispers of the Ancients** - Representing the era of cave paintings and early communication.
- 3. Agricultural Genesis** - Depicting the Neolithic Revolution and the birth of farming.
- 4. Pyramids Against the Sky** - Showcasing the architectural marvels of ancient civilizations like Egypt.
- 5. Philosophers Under the Stars** - Highlighting the intellectual and cultural advancements during the Classical Age.
- 6. Silk Roads Entwined** - Focusing on the trade and cultural exchanges in the medieval era.
- 7. Renaissance Rebirth** - Capturing the explosion of art, science, and exploration in the Renaissance.

- 8. **Industrial Evolution** - Depicting the dramatic changes of the Industrial Revolution.
- 9. **Echoes of Conflict** - Reflecting on the world wars and their global impact.
- 10. **Digital Dawn** - Illustrating the rise of computers and the beginning of the Information Age.
- 11. **Quantum Leap** - Representing current cutting-edge technologies and scientific breakthroughs.
- 12. **Orbiting Oases** - Imagining human habitats in space, like colonies on Mars or the Moon.
- 13. **Harmony with the Hive** - Depicting a future where humans and AI coexist and collaborate.
- 14. **Terraformed Horizons** - Showing futuristic landscapes where humans have reshaped planets.
- 15. **Beyond the Singularity** - A speculative look at post-human evolution and the mysteries of the future.

## Exercise 02

We have attached a series of 3 Stable Diffusion generated images - but they are corrupted in some way or the other. Your goal is to figure out what the EXACT metadata(Prompt, Seed, Sampler, CFG, Steps, etc) for the image are; once you have that, input all the fields into Stable Diffusion and tweak 1-2 of the parameters to un-corrupt the image. Every image has only 1-2 parameters tweaked in the wrong way to corrupt it. Good luck agent!



For example :



The image on the Left is the corrupted image and the one on the right is what you need to achieve. The ONLY difference between these 2 images are that the Left one has a CFG of 18 and the Right image has a CFG of 7.