

# P a p e r s p a c e G r a d i e n t

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# ABOUT

- Gradient notebooks is a web-based IDE(Integrated Development Enviornment). It runs jupyter inside an environment.
- There are 18 “containers” that are pre-configured into Gradient. Some examples are PyTorch, Fast.Ai, Tensor Flow, adn Jupyternotebook for R.
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# SPECIAL FEATURES

- **Free access to CPU and GPU instances**
- **Web IDE**
- **Notebooks built on portable Docker containers ( start up is quick )**
- **Run any common ML framework**

# COMPARISON TO JUPYTER

- They both can show visual data
- They both support multiple languages and environments
- They both have markdown features
- They both can be used for free. (PG has a free tier subscription)

# CONTRAST TO JUPYTER

- Jupyter notebook does not have CPUs or GPU services
- Does not have built in containers
- Awful interface.
- Have to pay to use terminal
- Gradient is SO SLOW.

## When would Creasen use this?

- I would use Gradient Notebooks for machine learning.
- I would use this for creating clusters for analysis.
- I would use this for when I need more machine power. Especially when I am combing through large amounts of data.
- I would use this for creating visual models, especially in a collaborative setting.
- If my GPU was very bad

## Would Creasen use this?

- If I were in the machine learning space, I would probably use this. As of now, no. I have yet to learn about supervised learning, unsupervised learning, and reinforcement learning.
- I have messed around with the free version of it and it is quite slow. I would rather use VS code or Jupyter. I am sure their paid tier subscriptions have much more to offer than the free one. So, nah.

# LINKS AND DOCS

<https://gradient.run/notebooks>

<https://towardsdatascience.com/paperspace-bc56efaf6c1f>

<https://outwittrade.com/paperspace-review/>

<https://blog.paperspace.com/all-new-gpu-backed-notebooks-on-gradient/>

<https://www.explorium.ai/blog/clustering-when-you-should-use-it-and-avoid-it/>