

To the slides



# Learning to Compare: Relation Network for Few-Shot Learning

**Meta Learning / Metric Learning**

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# Meta Learning

Meta-learning is **learning** to learn; the process of *improving* a learning algorithm over multiple learning episodes/tasks.

## *Improve* How?

- Generalization performance
  - Avoid overfitting
- Learning speed
- Adaptability
  - Adapt to new tasks with minimal data or tuning

## Learn What?

- Hyper Parameters / Neural Architecture
- Initial Condition
- Optimizer
  - SGD/Adam? Step size?
- Loss Function
- Minibatch Selection