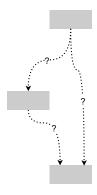
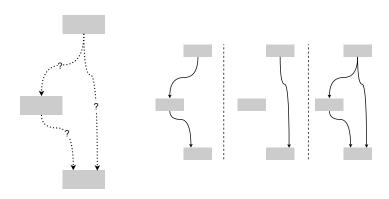
Differentiable Architecture Search (DARTS)

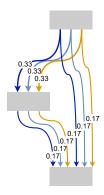
DARTS as Surrogate

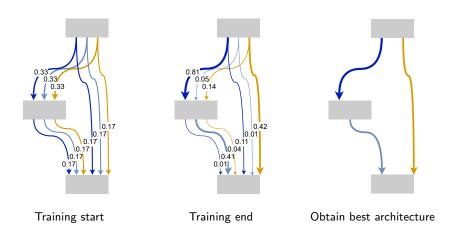
Differentiable Architecture Search (DARTS)

DARTS as Surrogate





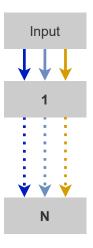




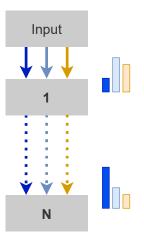
Differentiable Architecture Search (DARTS

DARTS as Surrogate

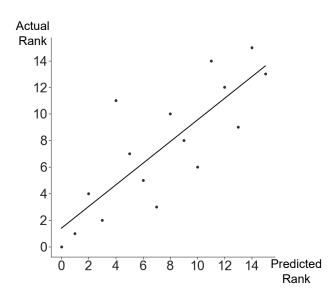
# Search Space



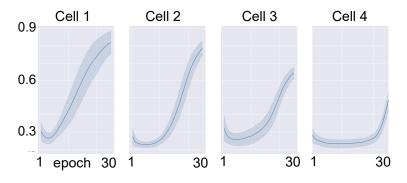
# Search Space



## **DARTS** Surrogate



## Architecture Plasticity

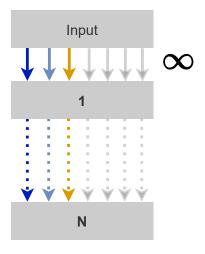


Maximum norm of architecture parameter vector per epoch per cell

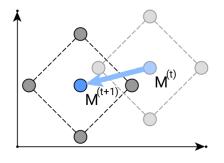
Differentiable Architecture Search (DARTS)

DARTS as Surrogate

# Search Space Extension



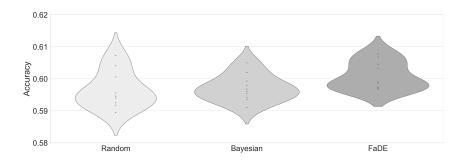
### Finite Difference Descent



2-dim euclidean search space

## **Experiment Results**

Top 10 architectures found by Random Search, Bayesian Search and our approach



### References

[Liu et al., 2018] Liu, H., Simonyan, K., and Yang, Y. (2018). Darts: Differentiable architecture search.