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## 1 | Weight Agnostic Neural Networks

*Or WANNN, for short.*

Note's on this article

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Animals can perform tasks when they are born without prior experience to the world. If the brain is pre-wired, then learning new from experience would cause a loss of the old skill. What gives?

WANNs can perform tasks regardless of the weights in its connections.

### 1.1 | NEAT

*NeuroEvolution of Augmented Topologies*

Genetic algorithm in which mutations done by changing the **structure** of the network.

### 1.2 | Back to WANN

Can generalize the network to work with a range of weight values?

Instead of changing connection weights, they

- add connections,
- add weight,
- change activation functions.

Networks in which the structure enables the task to be completed, not the weights, can be developed.