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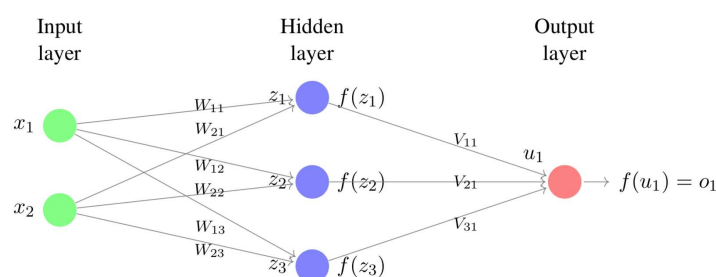


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2. Neural Network Basics

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Good programmers can use neural nets. Great programmers can make them. This section will guide you through the implementation of a simple neural net with an architecture as shown in the figure below. You will implement the net from scratch (you will probably never do this again, don't worry) so that you later feel confident about using libraries. We provide some skeleton code in **neural_nets.py** for you to fill in.



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[Notation notation](#)

The notation of the weight matrices here is clear and consistent with matrix notation: element w_{ij} means weight on flow from origin $n...$

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