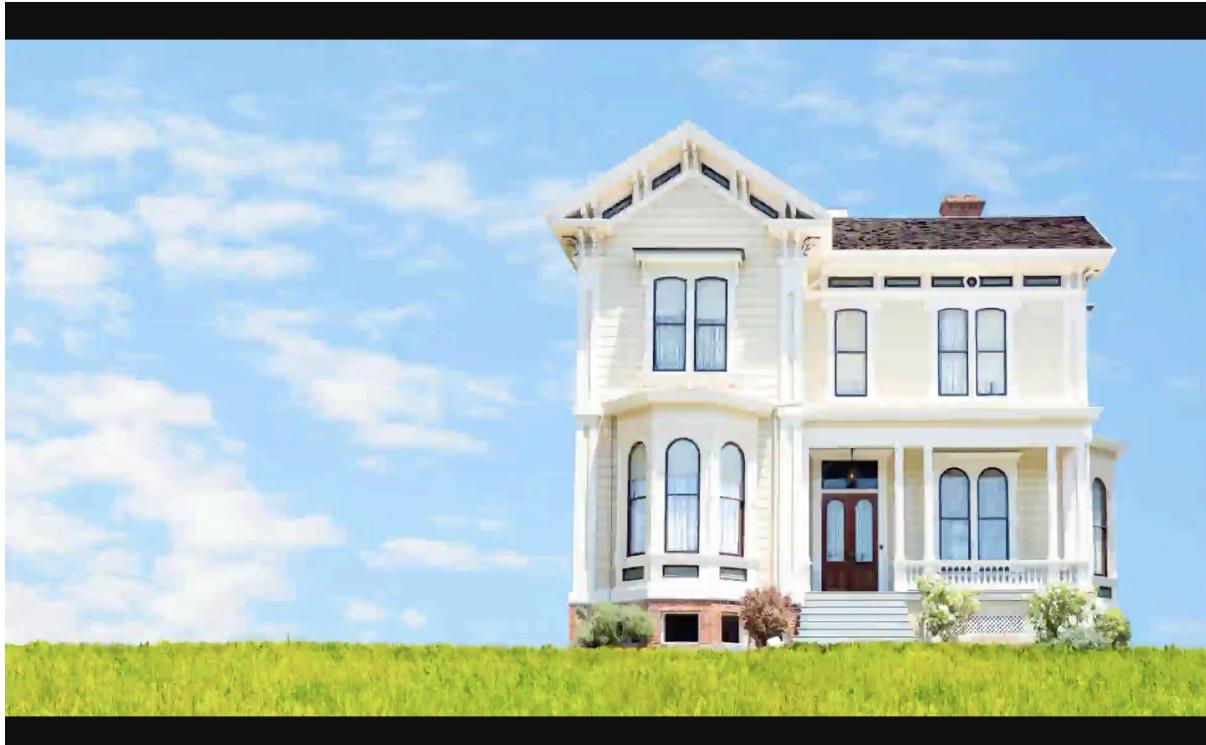


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How do NNs Work?

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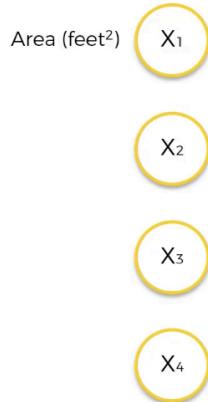
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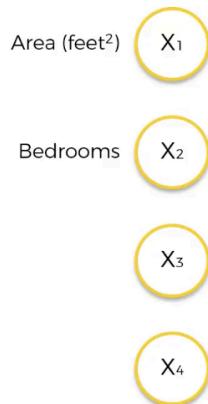
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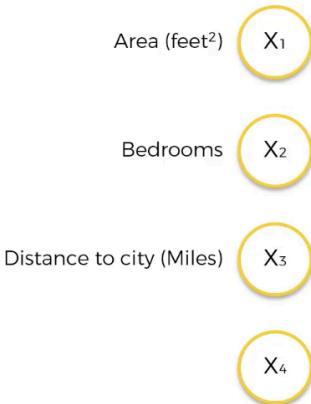
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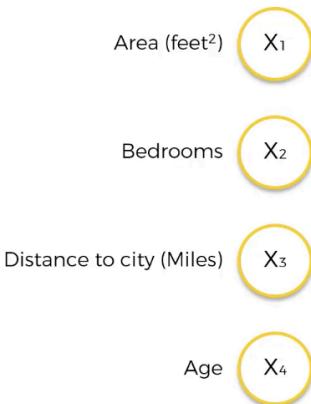
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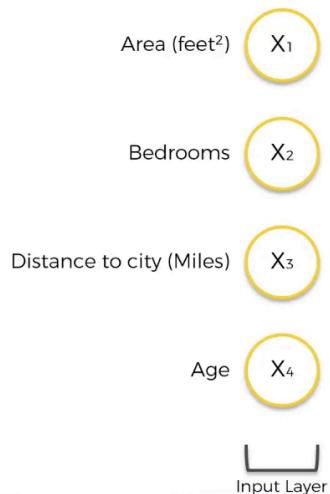
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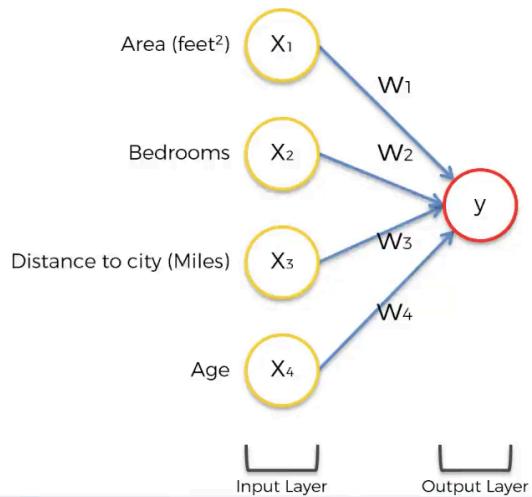
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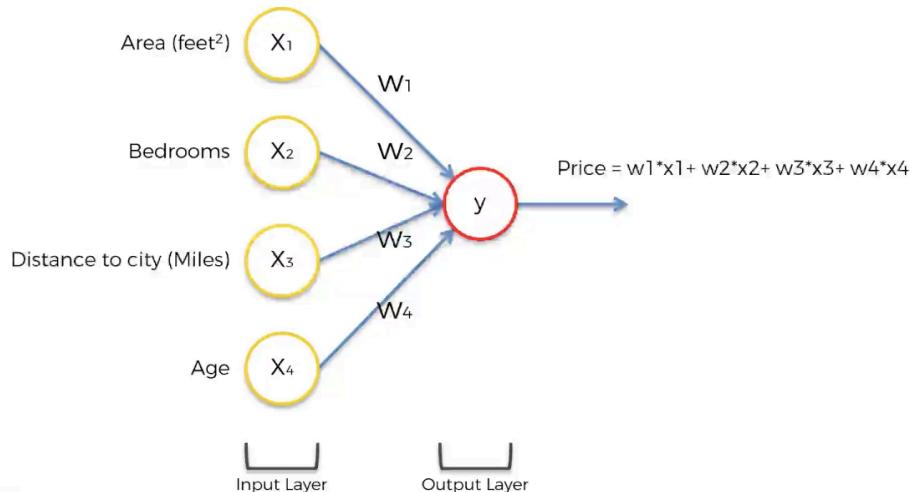
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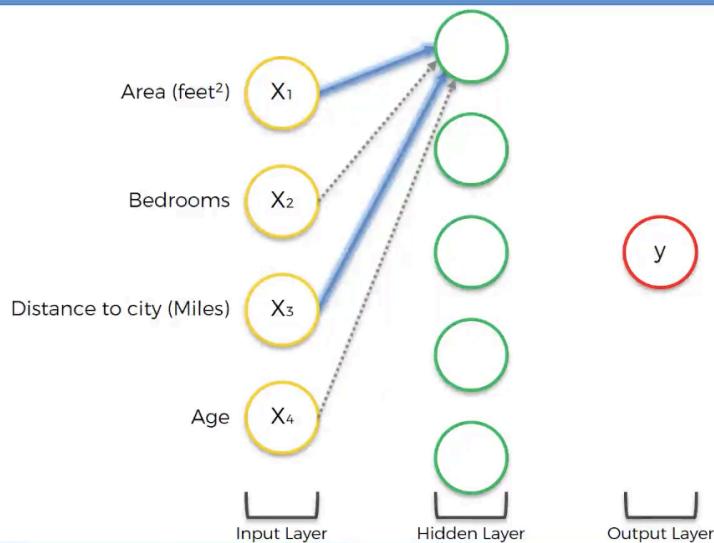
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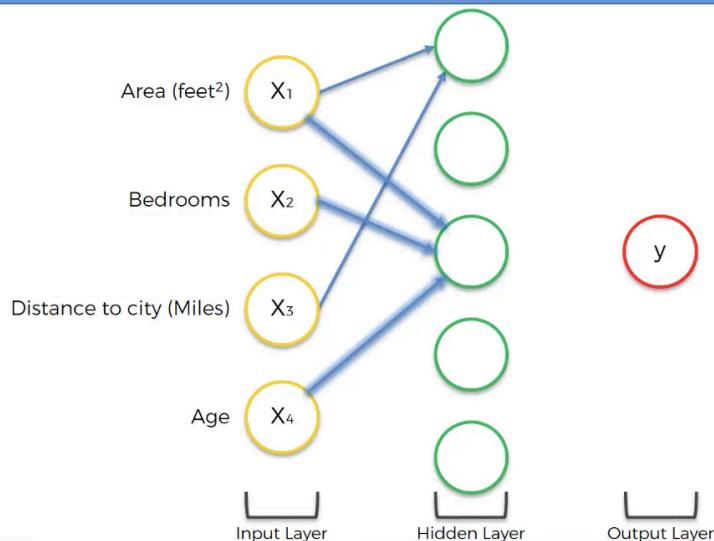
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Some weights have zero values, some weights have non-zero values.

This neuron considers the property that whether they are inside a city or far from a city and their area. for example, there are some areas that even though they are bigger but just because they are outside city, then they are cheaper the small apartment inside a city and this neuron is like a sniper for considering this.

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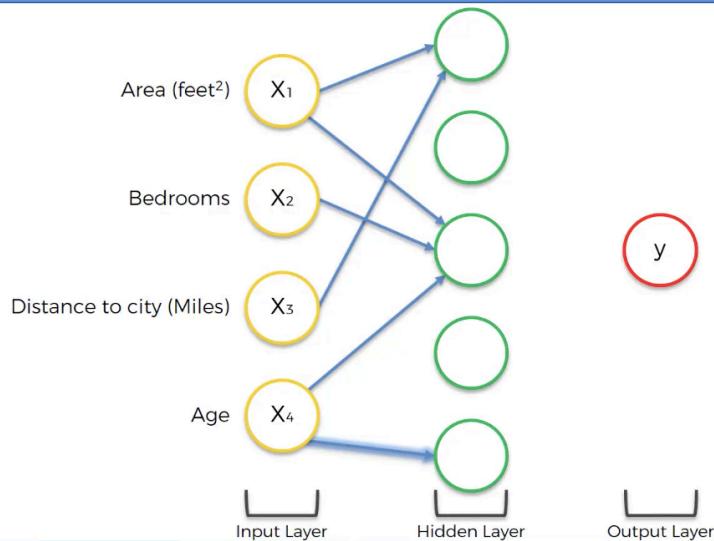


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In here we are trying to find the intuition and thinking behind this neuron. For example, imagine a suburb that there are a lot of families that looking for a large property with lots of bedroom which is new.

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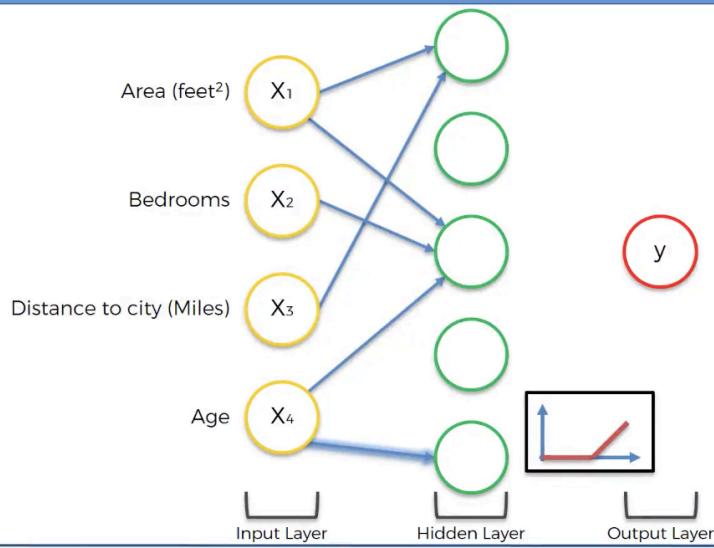


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From a fact, we know that old property are usually less attractive for people. But for example, there are some cases that if the property is older than a certain age (for example 100 year) then it became historical and it attracts more people. This neuron consider exactly this.

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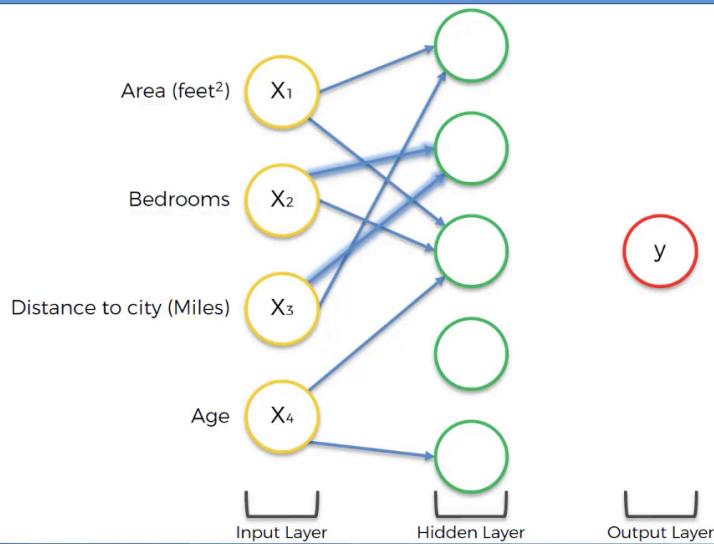


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This is a good example that the rectifier function being applied. So here we got zero until a certain point (let's say 100 years). Afterward the older it gets the more valuable it gets.

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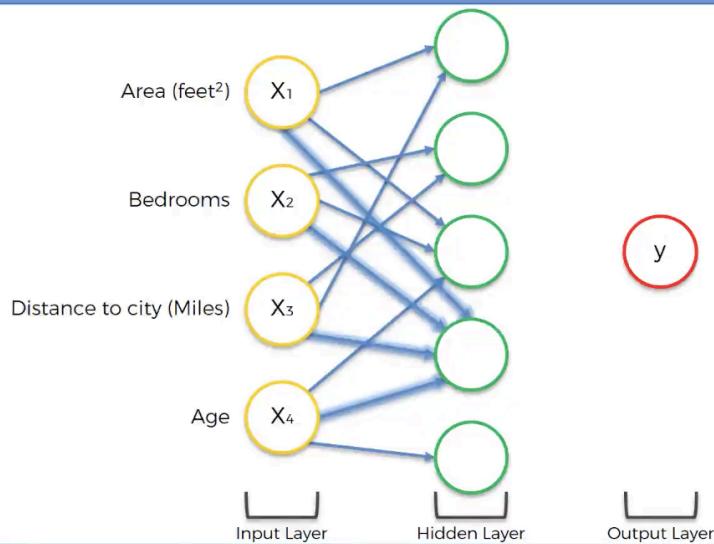


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Sometime there are some combinations for neurons that we could not picked up them.

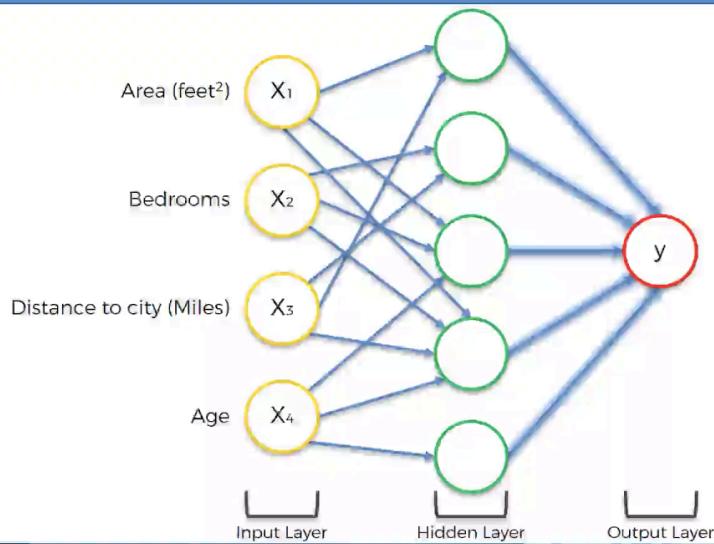
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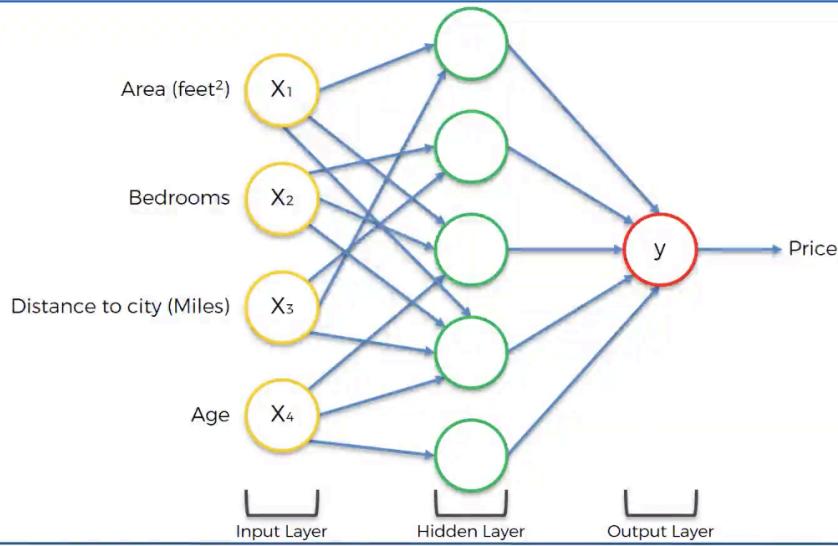
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Remember these neurons are like ants story. One ant cannot build the entire anthill but lots of them can do. Each of these neurons cannot predict the price but together they have the super power to predict them.