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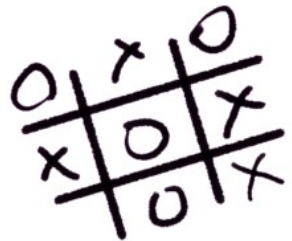
Machine Educable Noughts and Crossed Engine

Matthew Scroggs

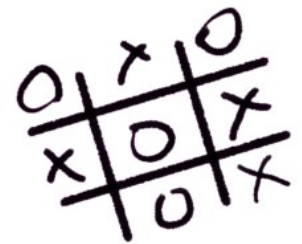


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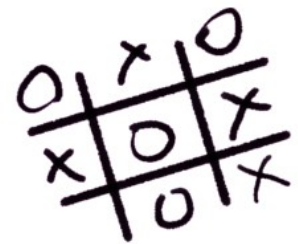
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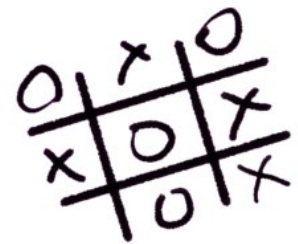
Donald Michie



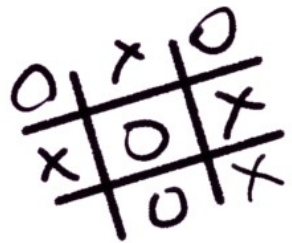
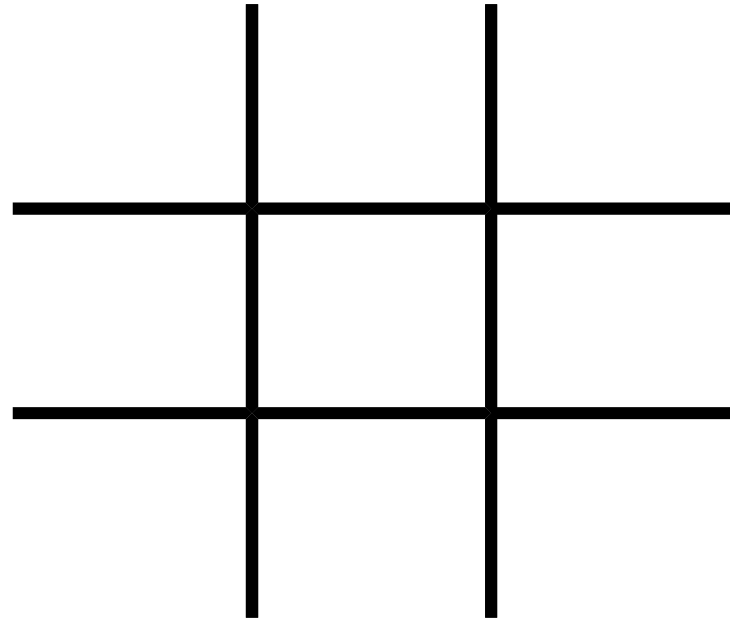
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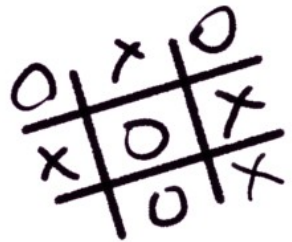
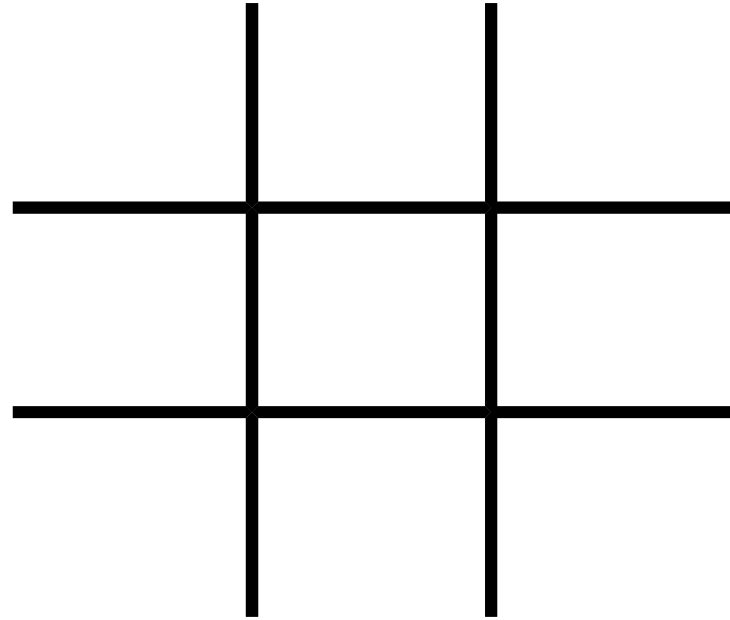
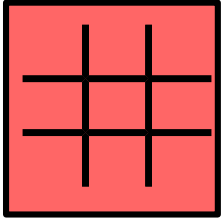
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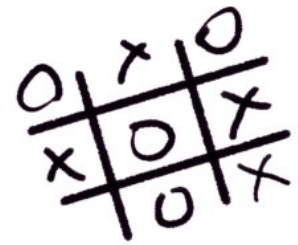
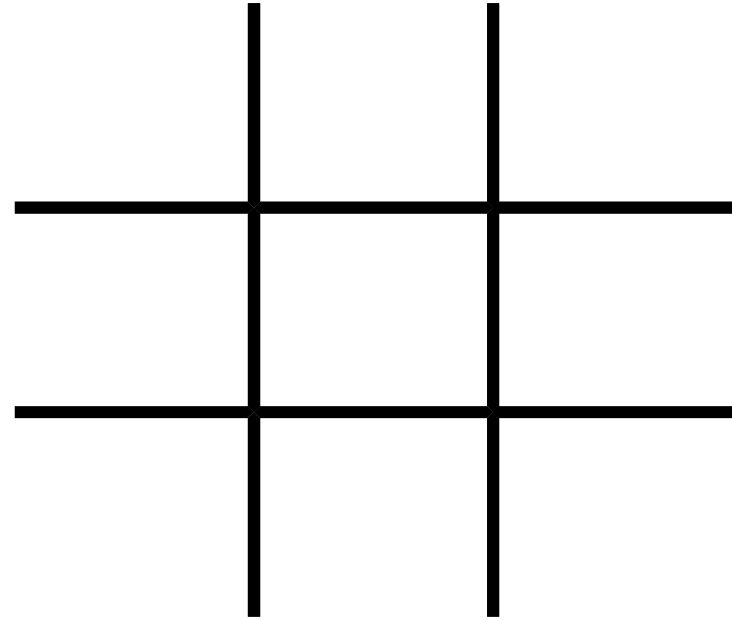
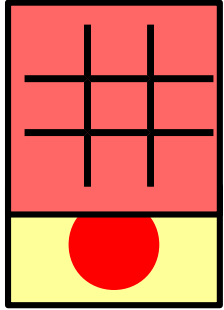
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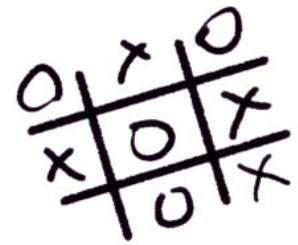
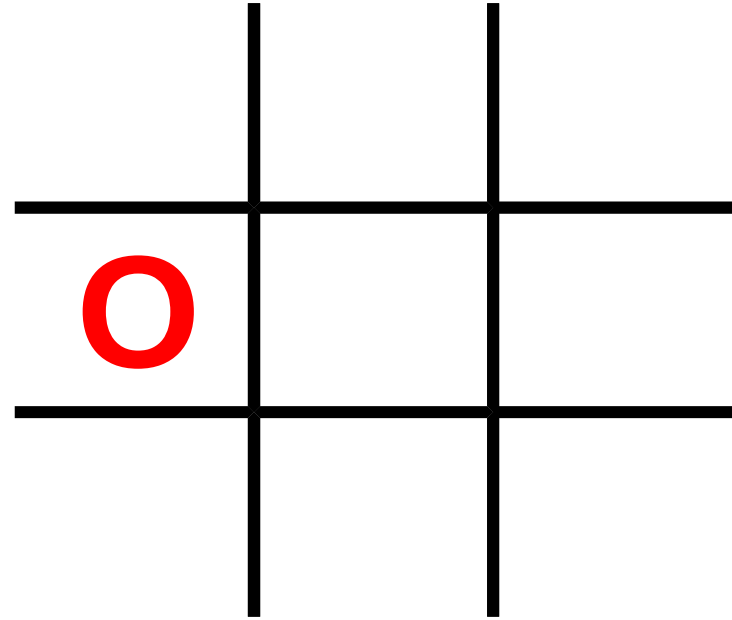
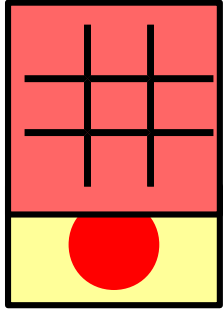
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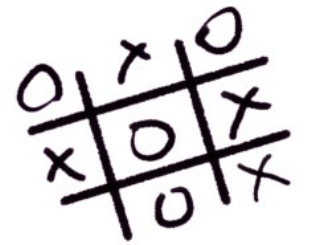
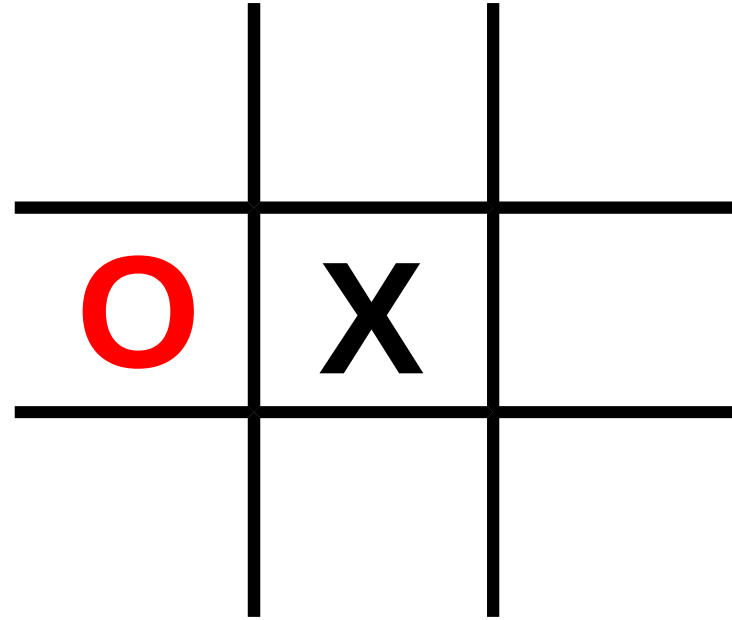
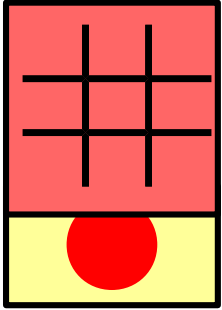
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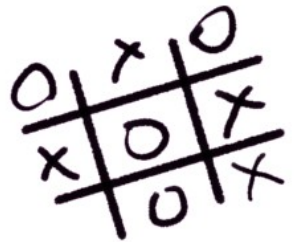
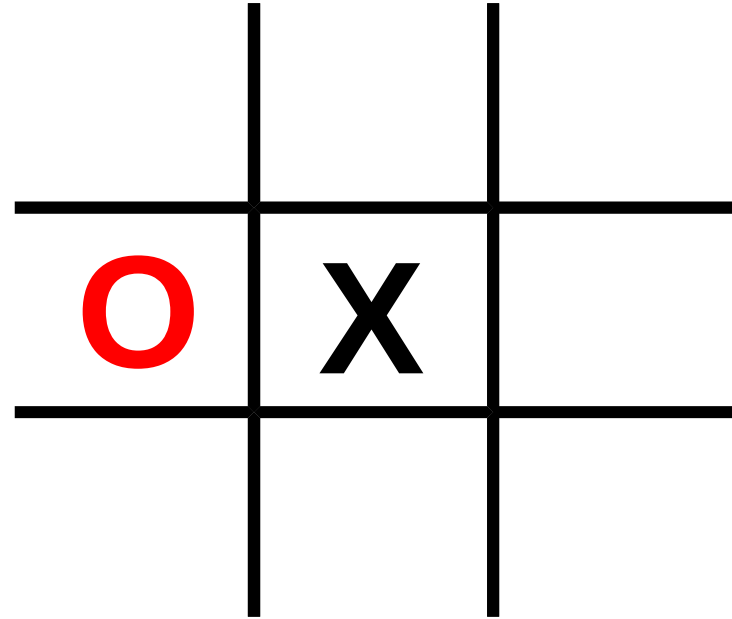
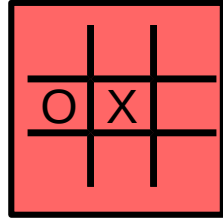
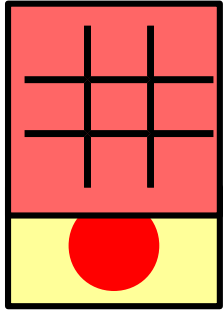
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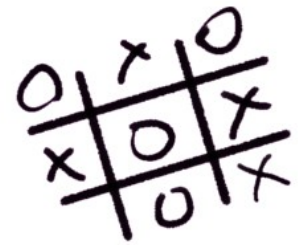
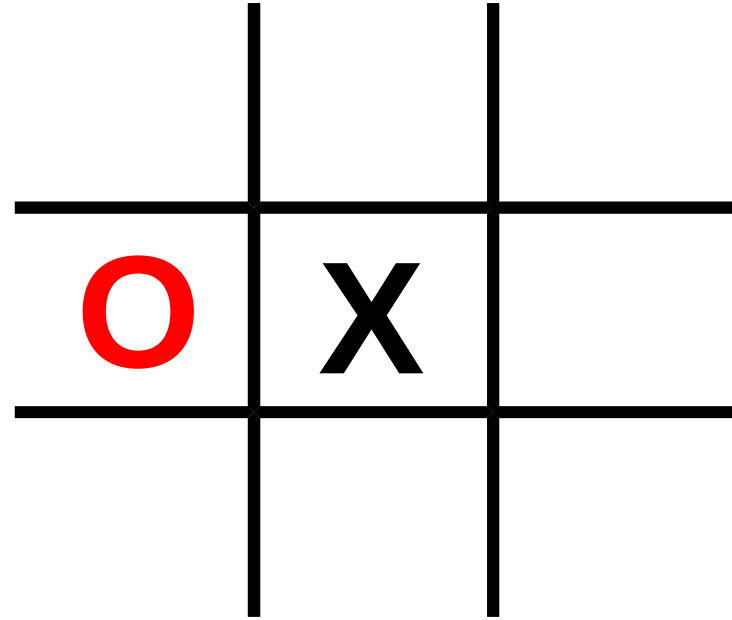
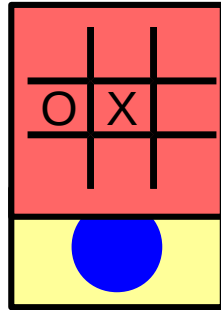
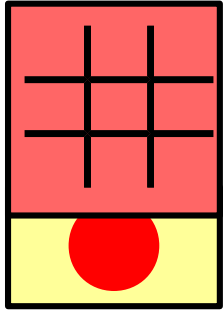
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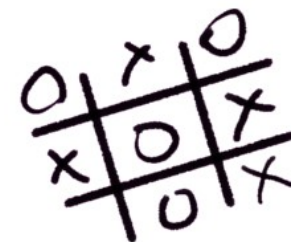
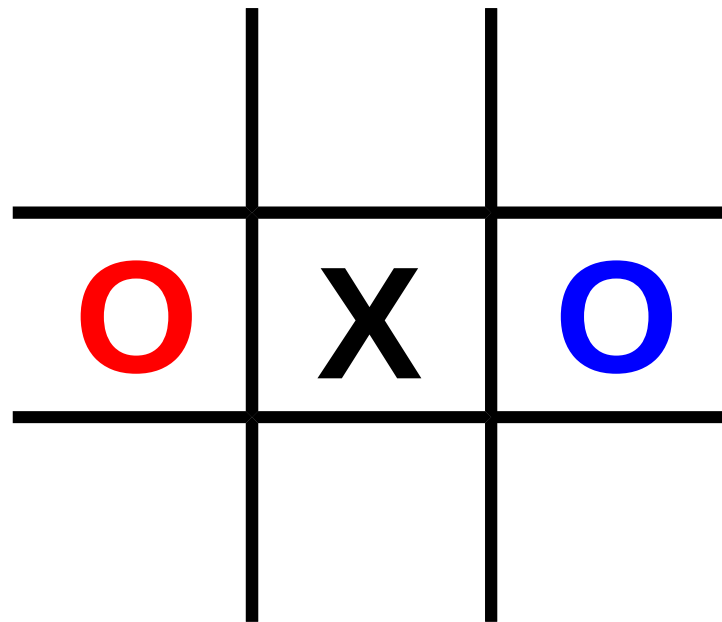
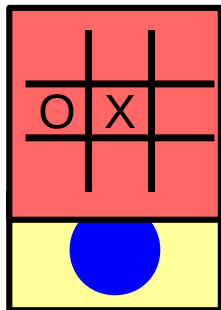
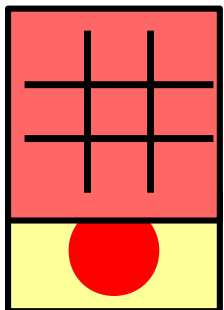
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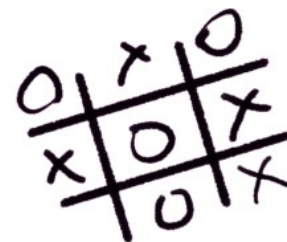
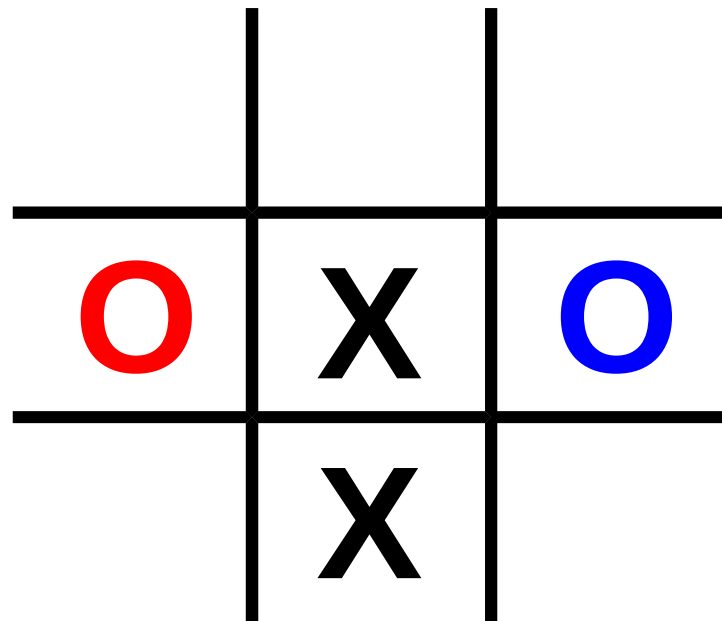
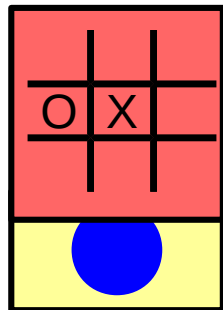
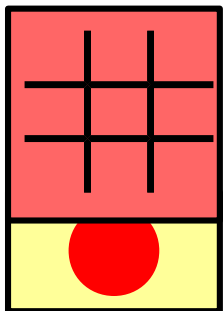
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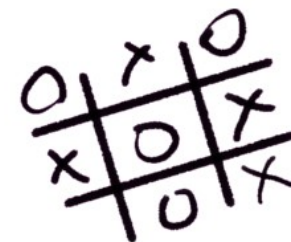
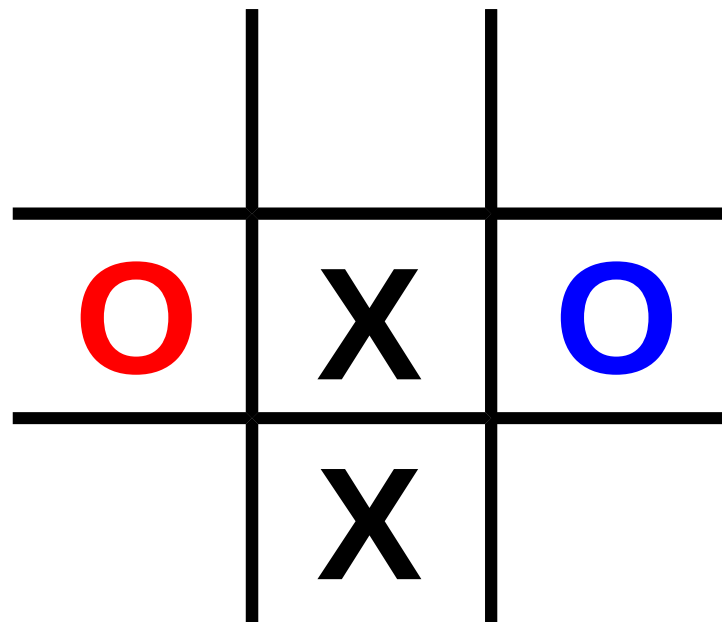
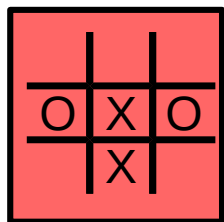
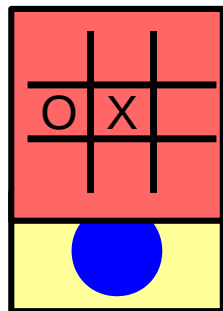
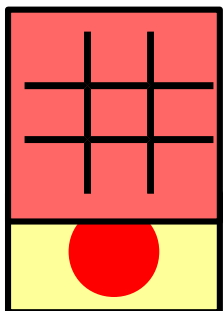
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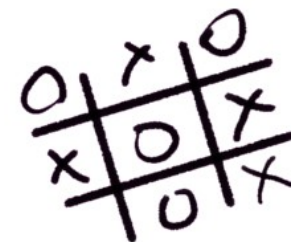
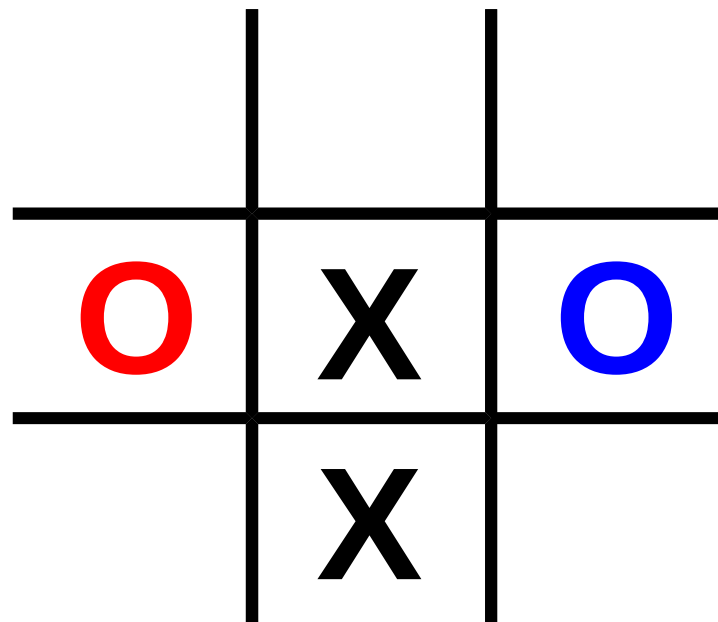
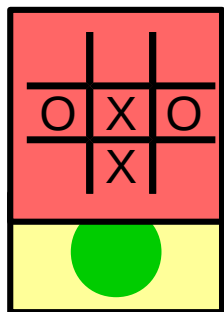
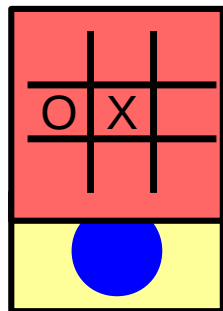
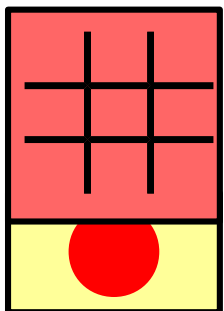
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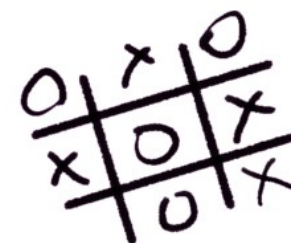
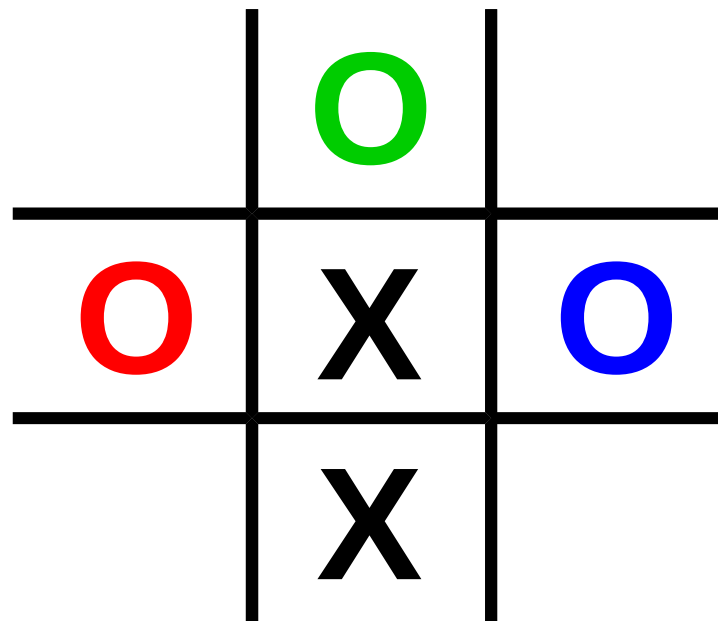
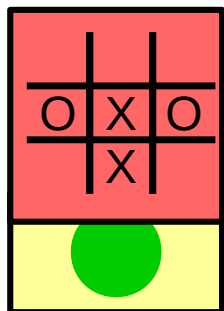
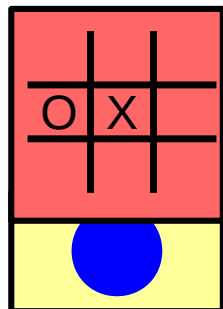
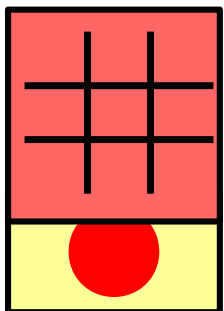
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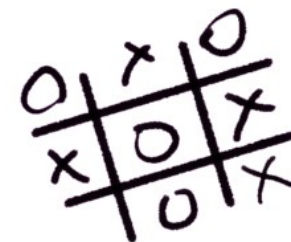
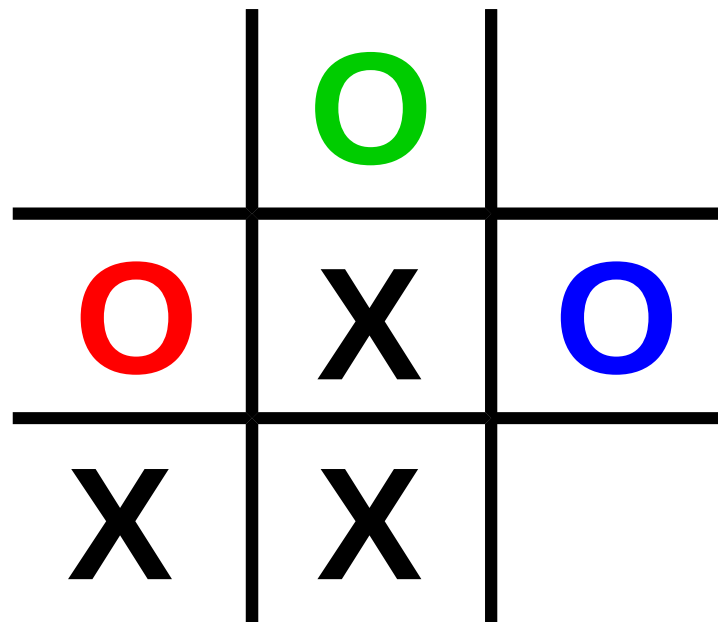
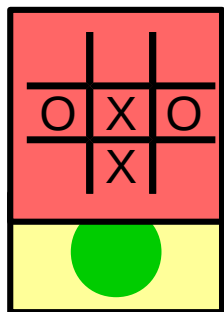
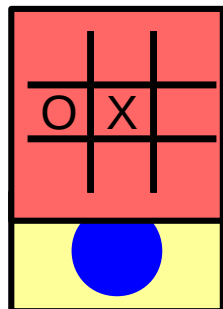
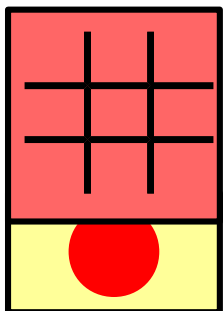
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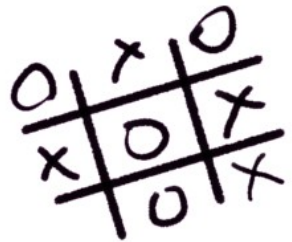
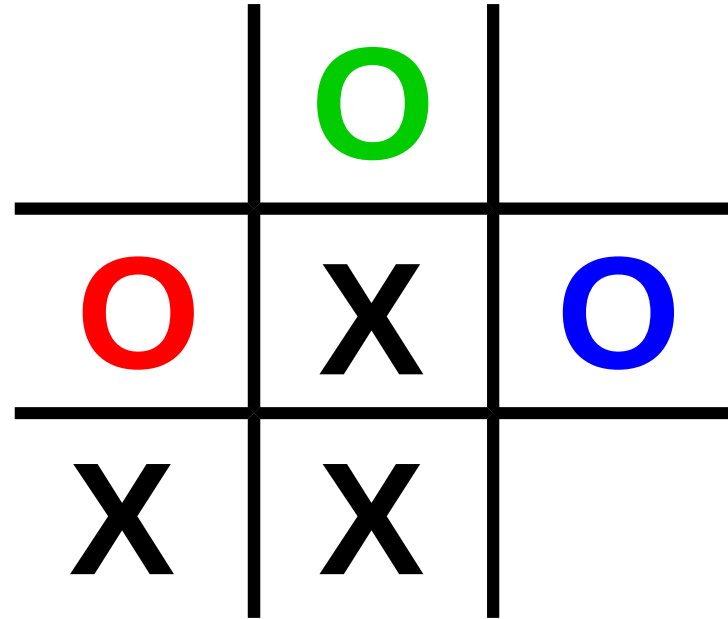
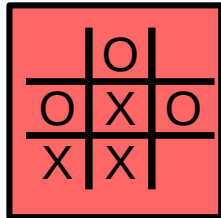
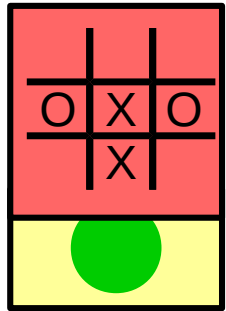
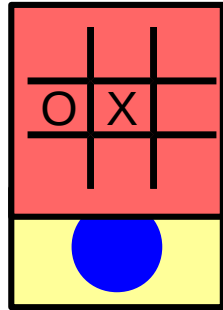
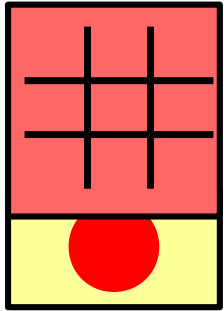
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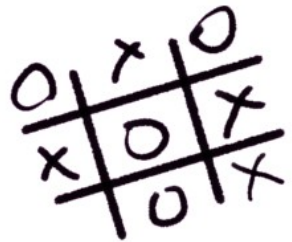
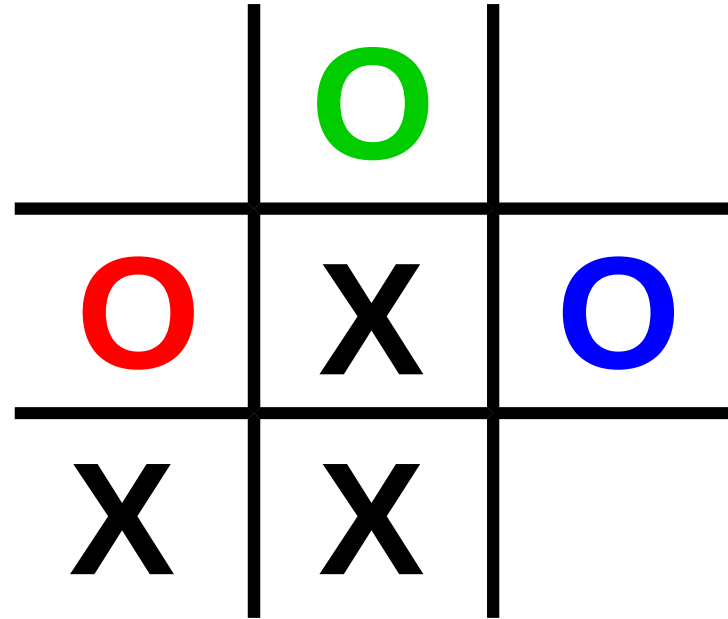
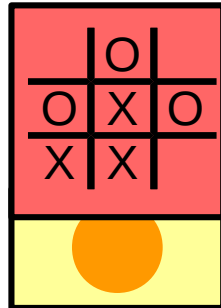
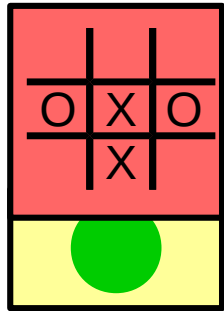
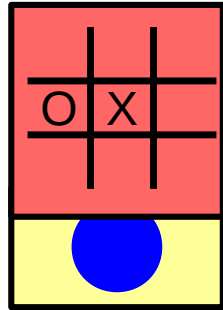
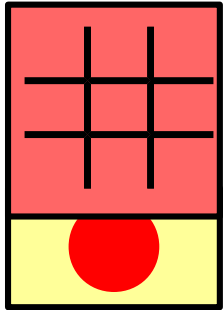
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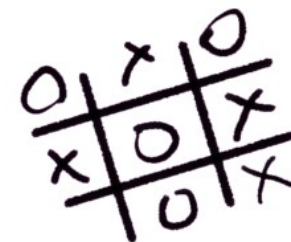
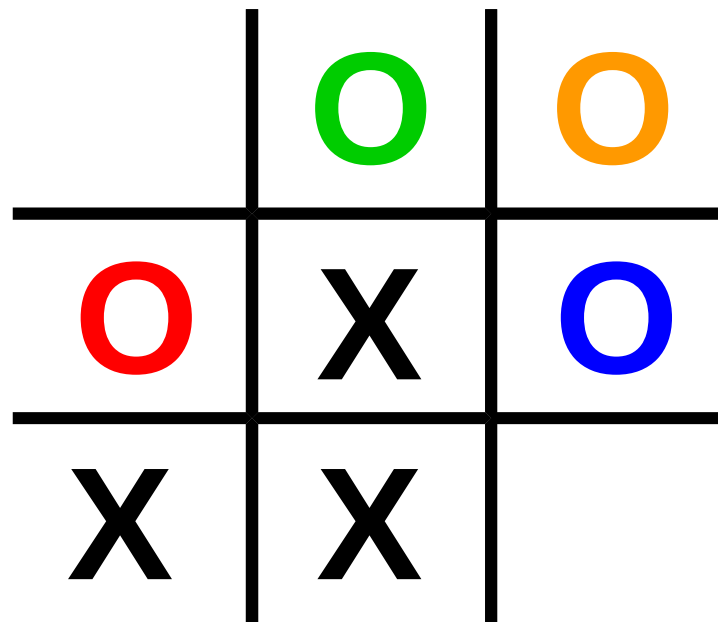
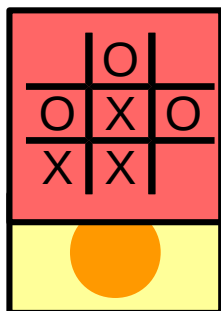
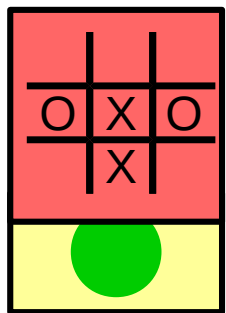
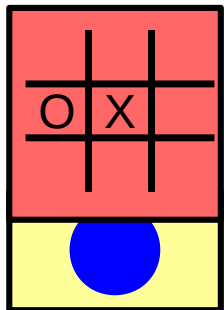
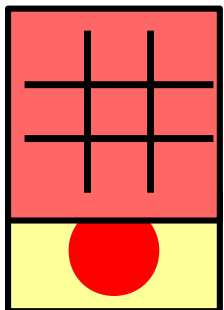
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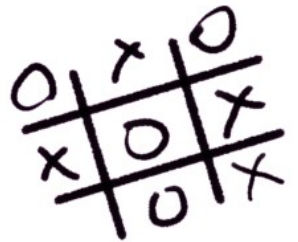
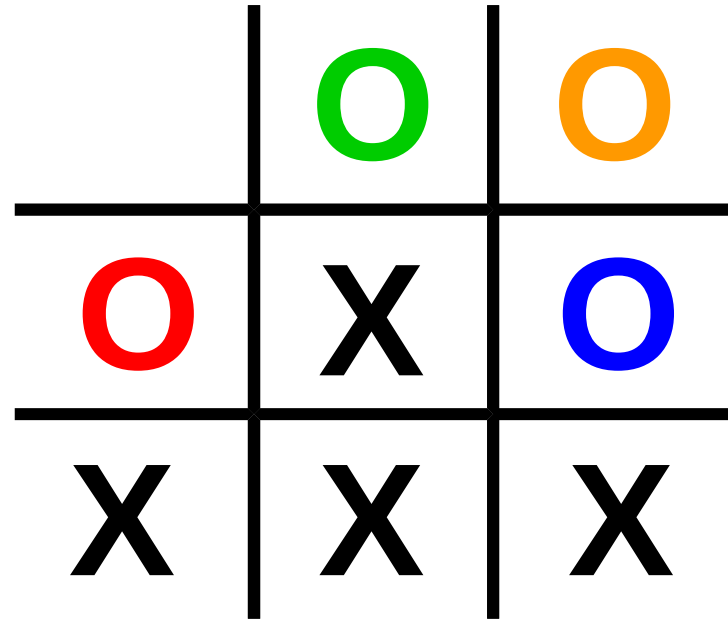
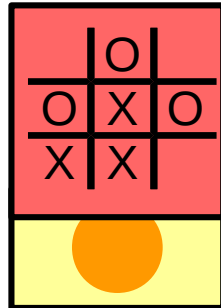
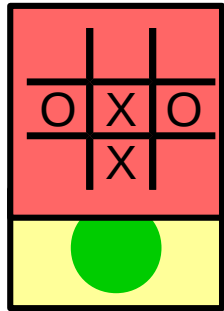
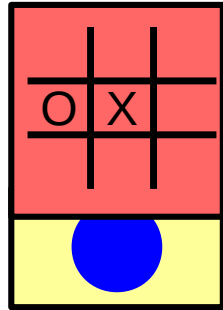
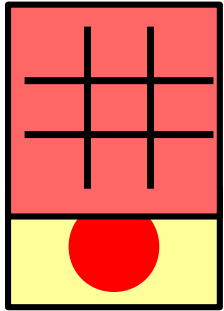
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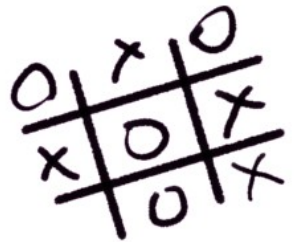
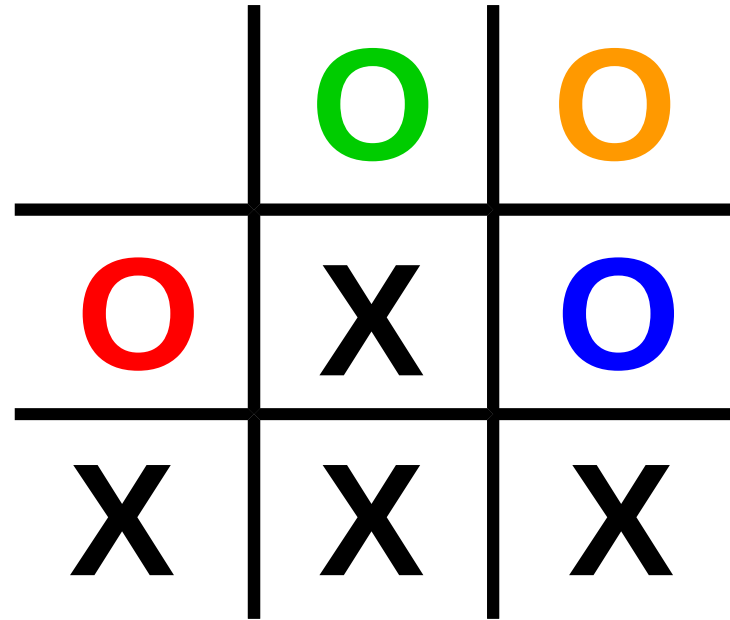
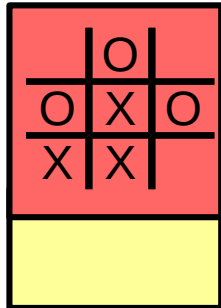
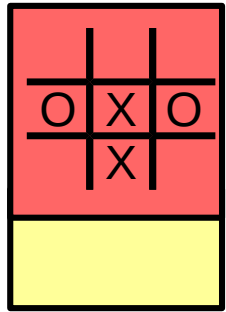
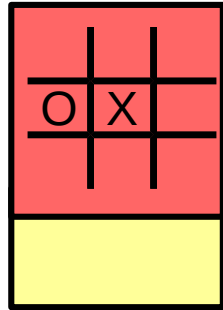
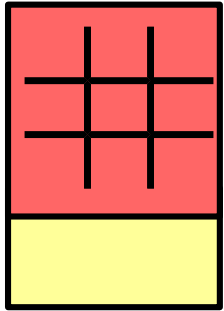
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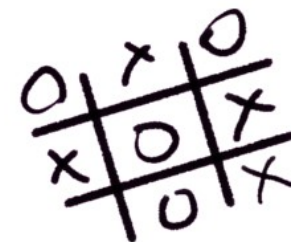
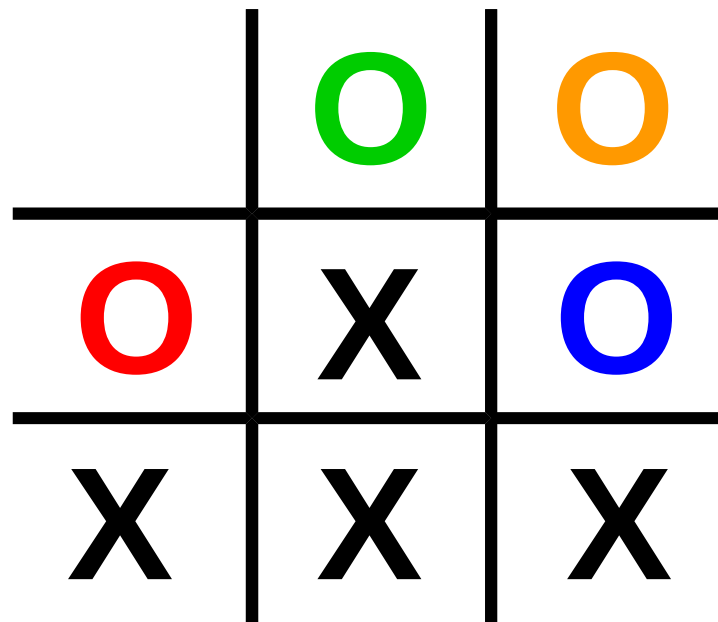
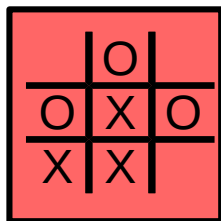
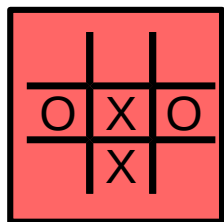
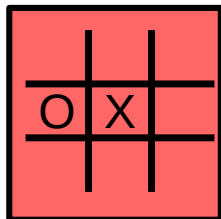
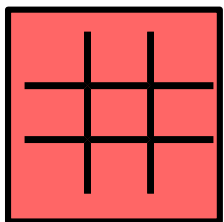
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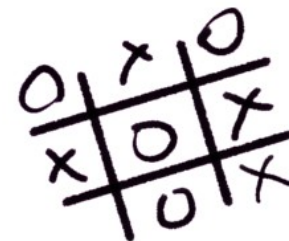
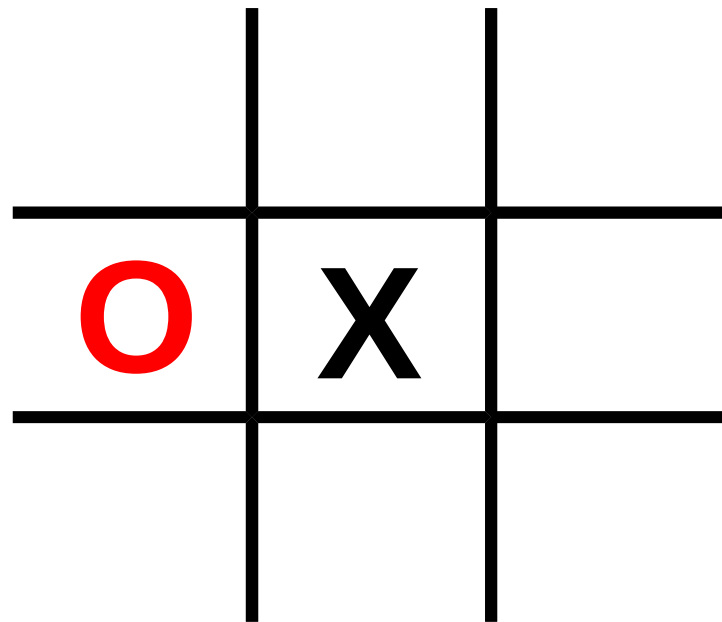
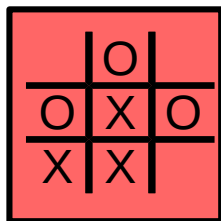
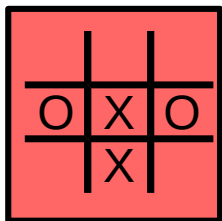
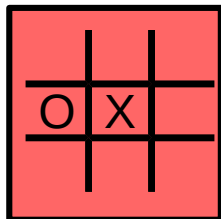
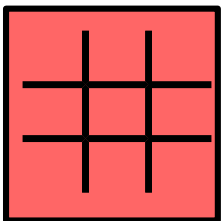
How it Works



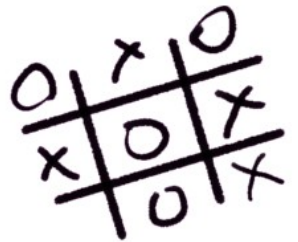
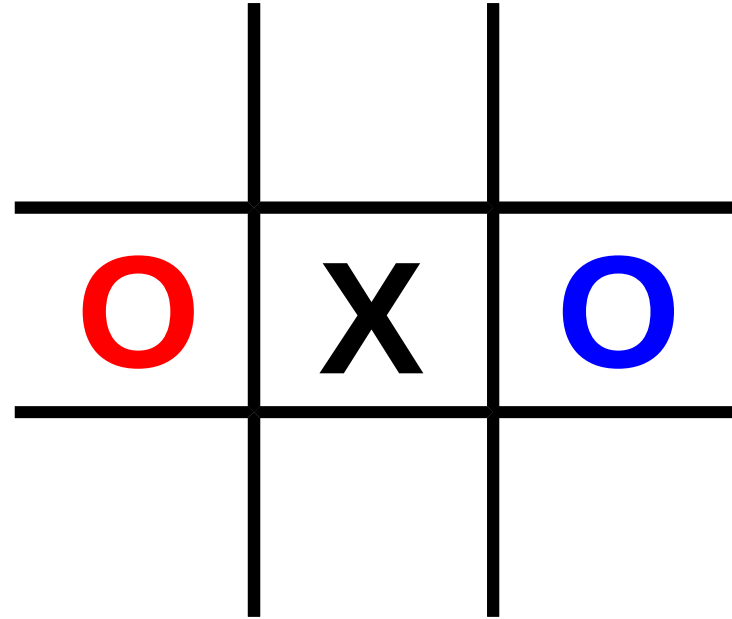
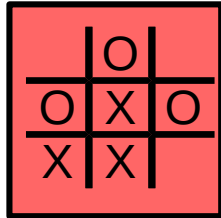
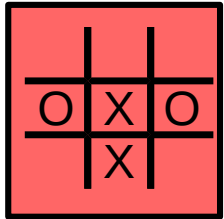
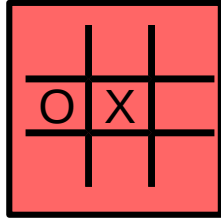
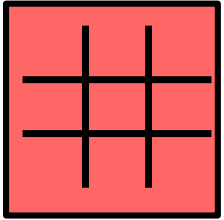
How it Works



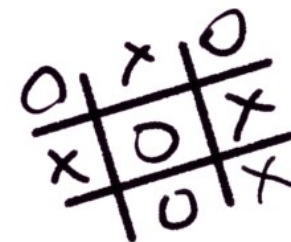
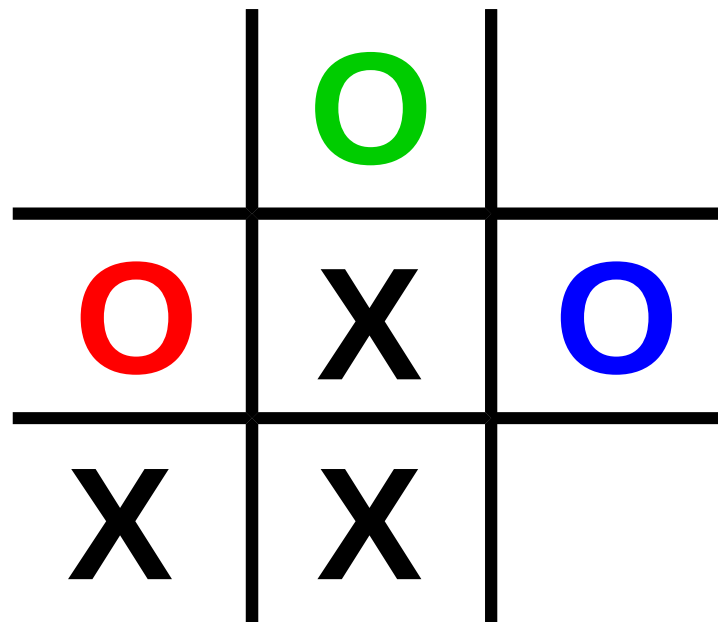
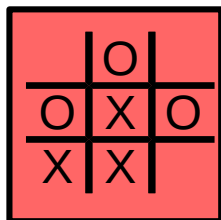
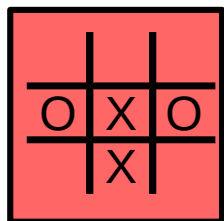
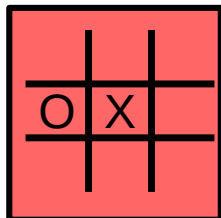
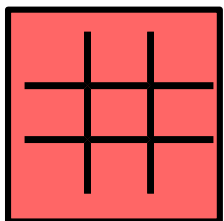
How it Works



How it Works

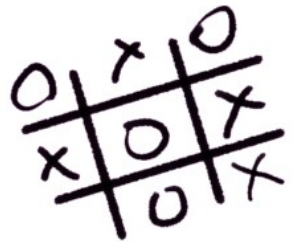


How it Works



How it Works

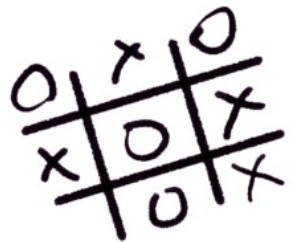
- Lose → Remove one marble from each box.
- Draw → Add one marble to each box.
- Win → Add three marbles to each box.



MENACE

While at CCC, I have written MENACE in JavaScript.
You can play against it and watch it learn from you at:

<http://mscroggs.co.uk/menace>



Thanks for listening!



@mscroggs

mscroggs.co.uk/menace

