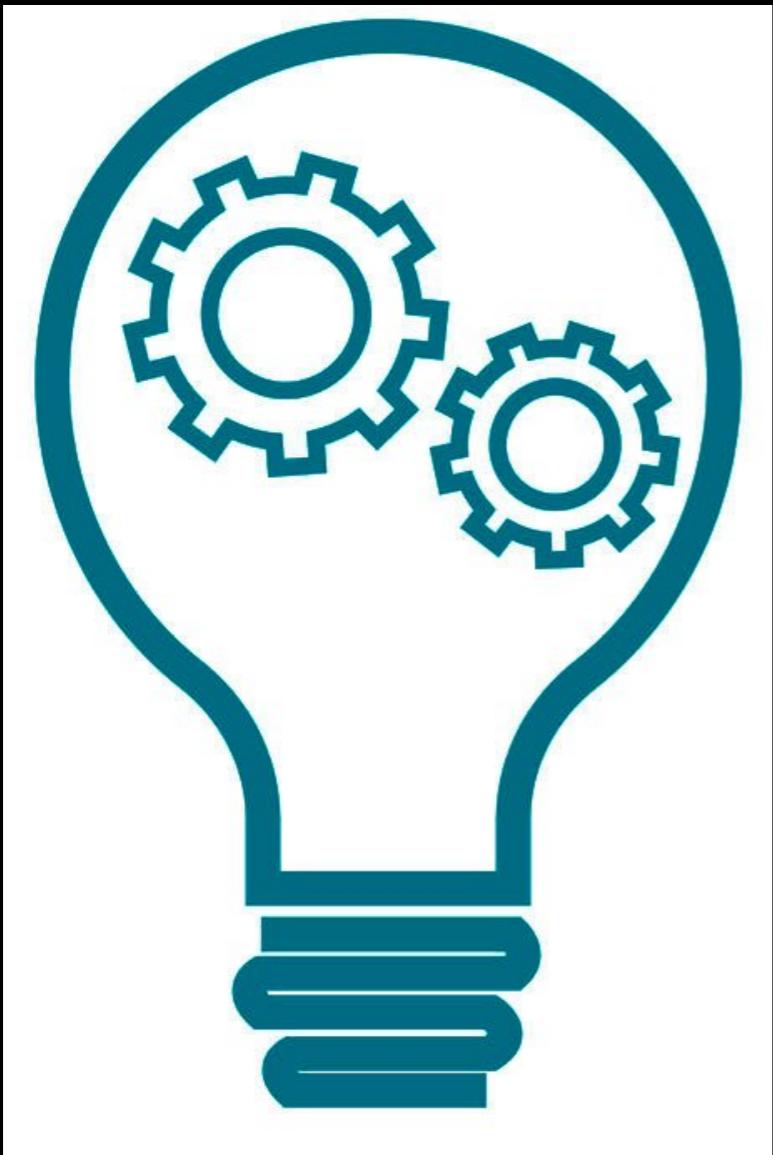


the cake is a lie.

image generation with deep learning

Marissa Douglas

Why image generation?



Product development



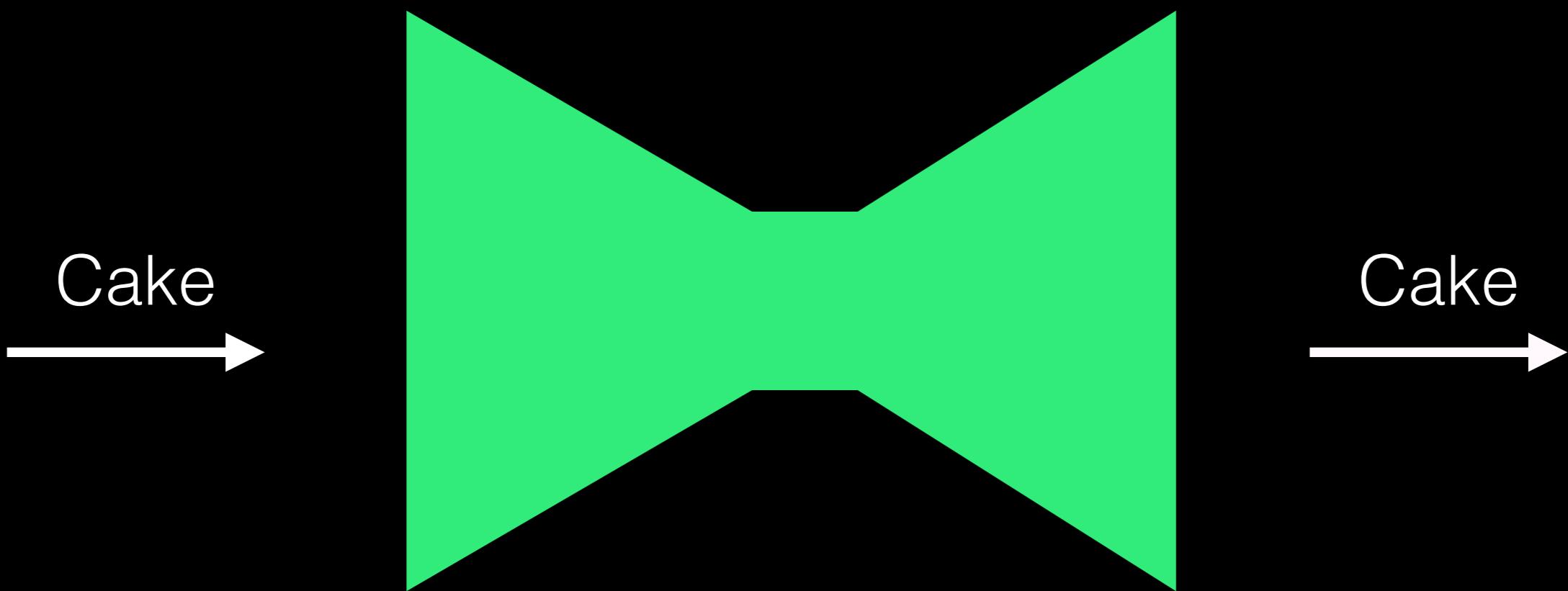
Virtual reality

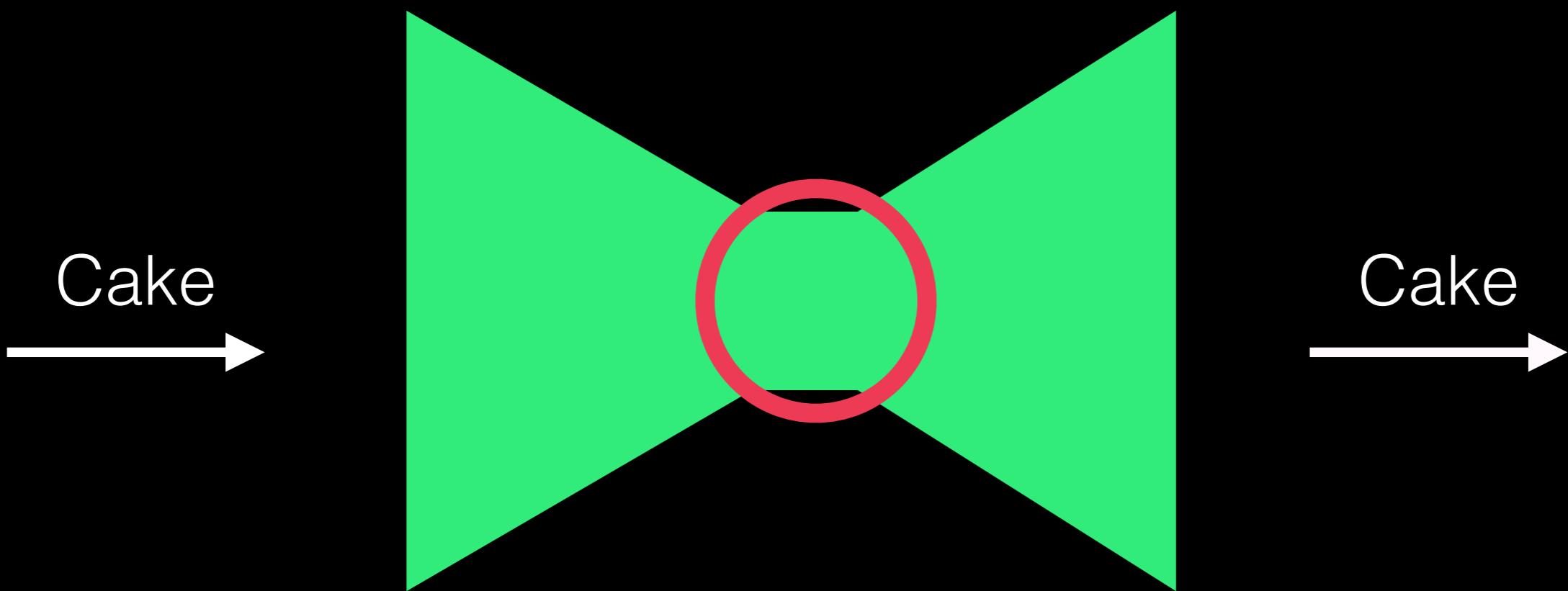
Why cake?

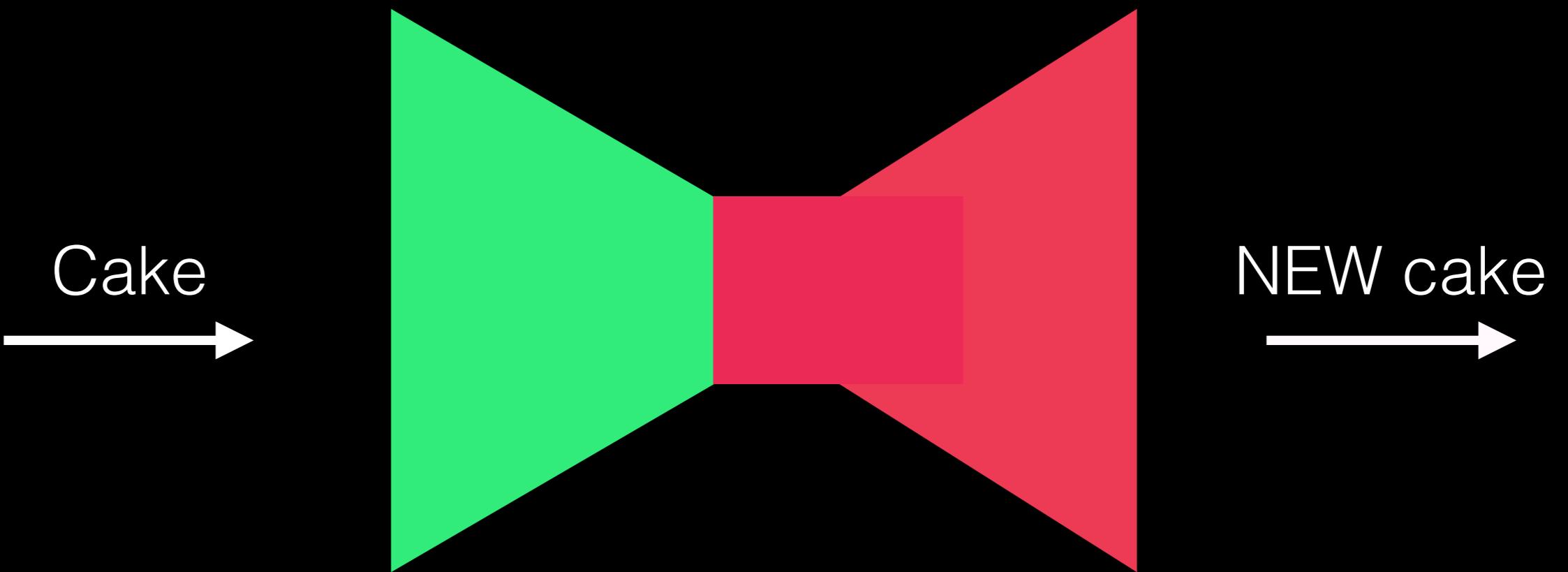
“When you have a few cake formulas in your repertoire, you will find that it’s pretty much an assembly job - you can mix and match a different way every time.”

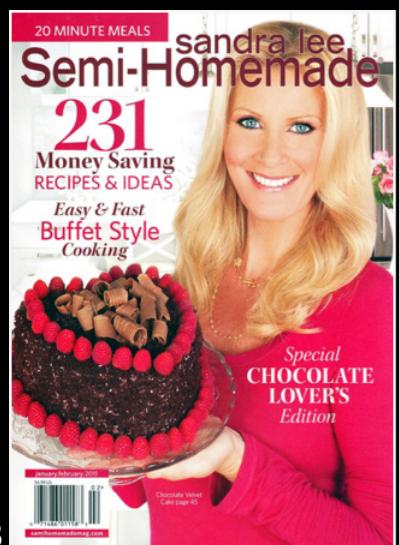
-Julia Child

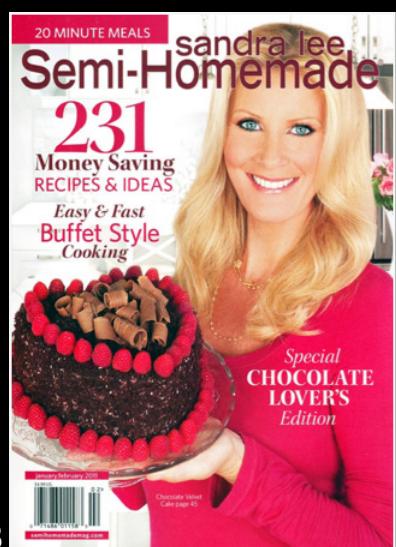
How does it work?





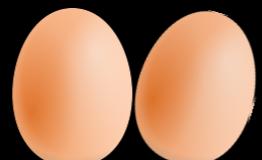






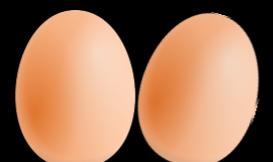


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8



9



10

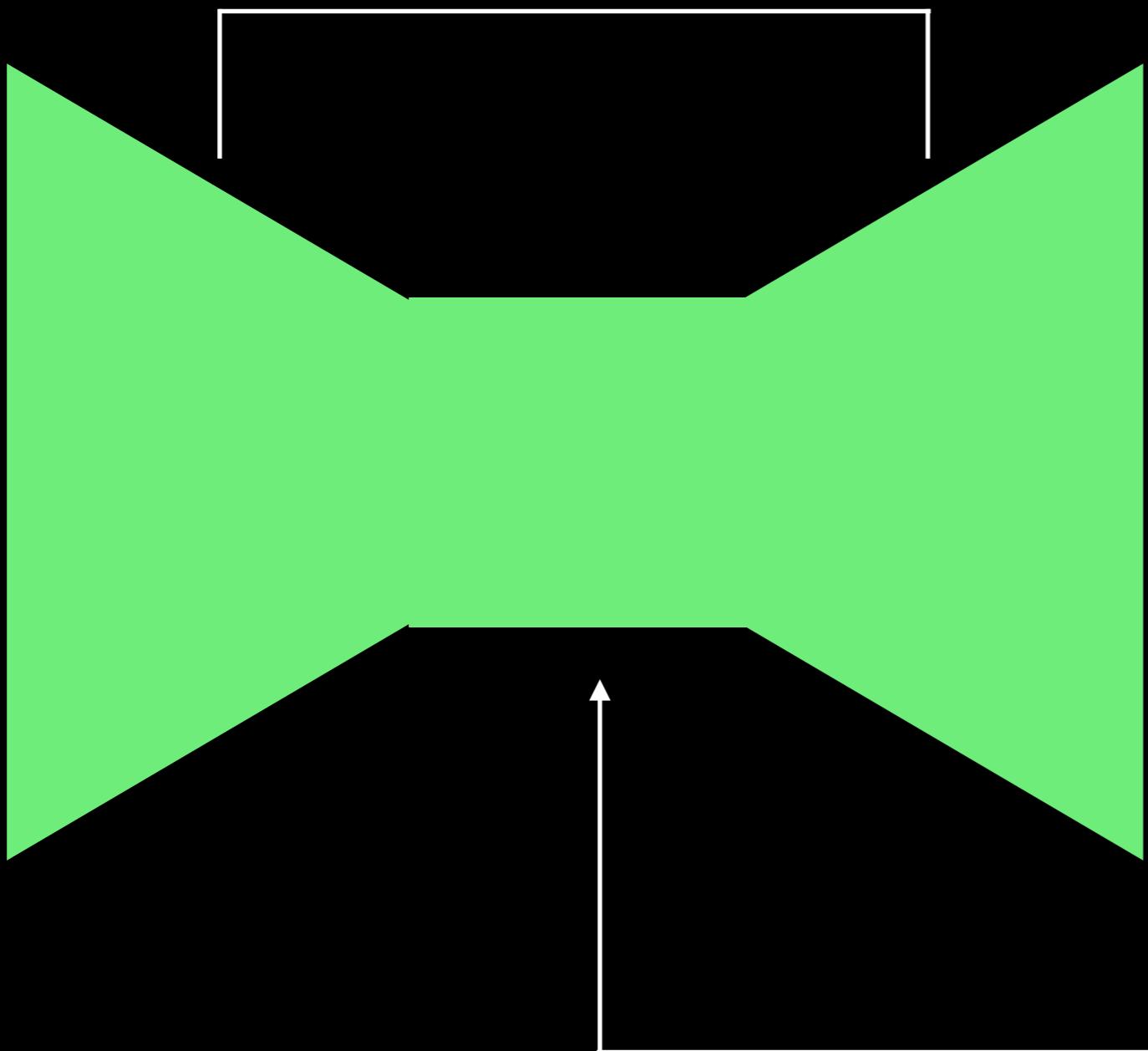


11



4

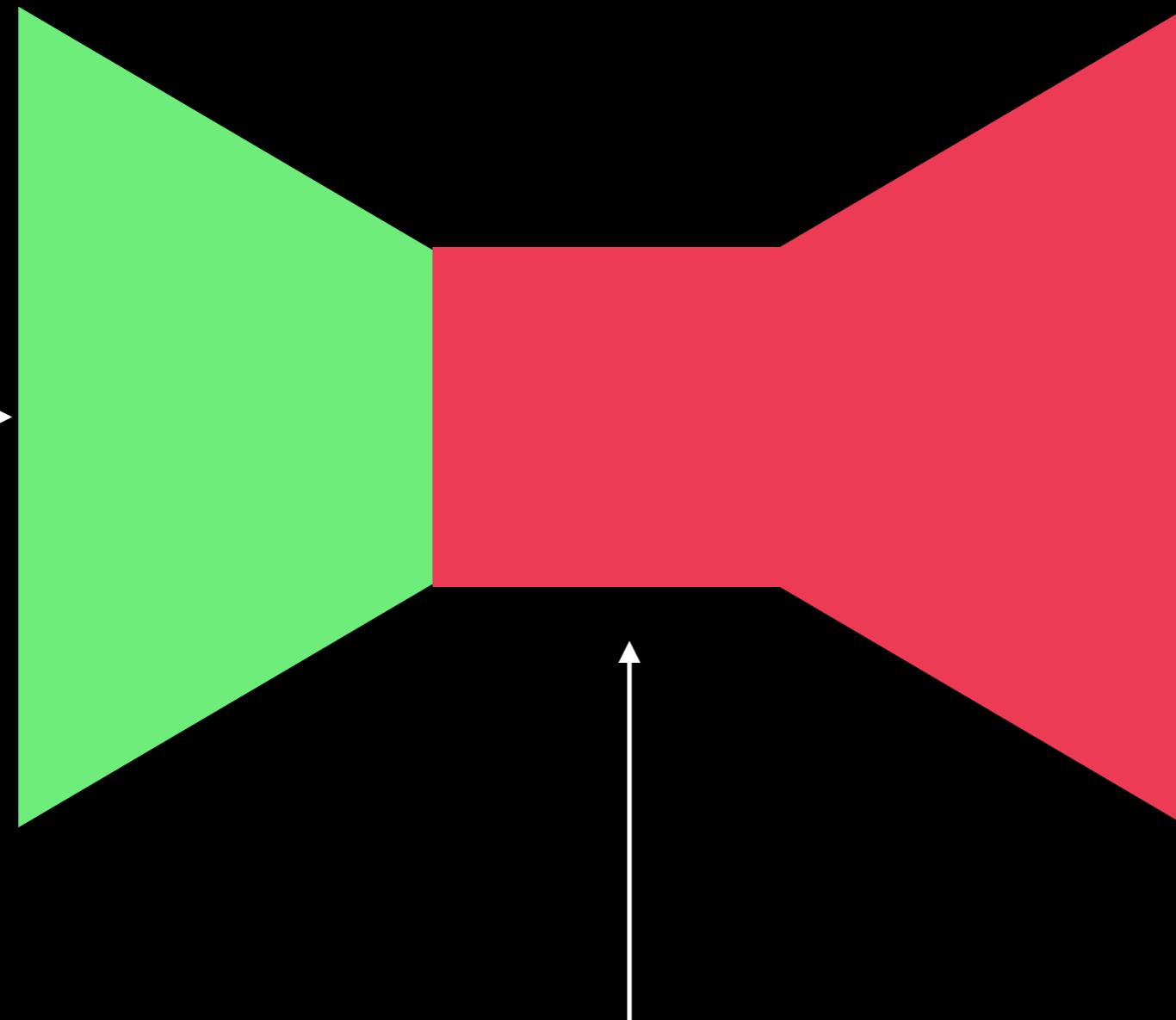
Learn the “recipes”



Add **spice** here



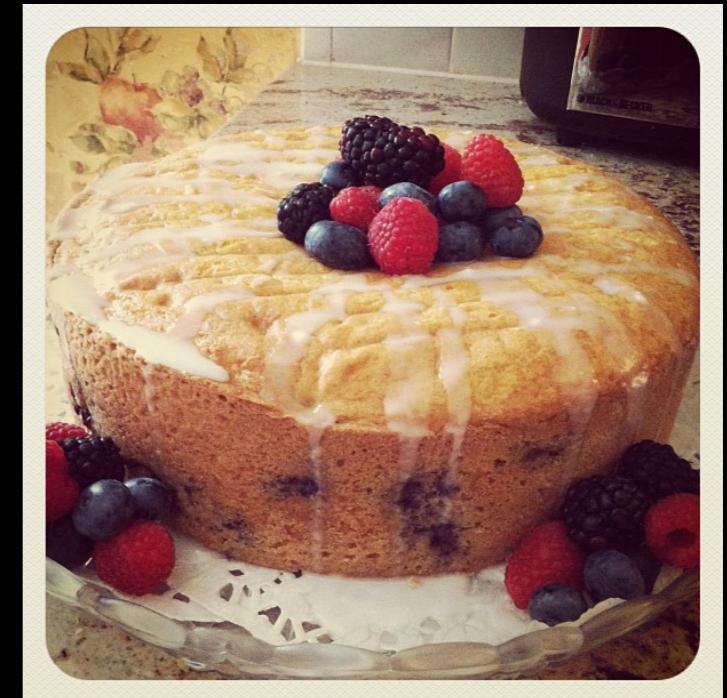
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12

???

Inputs

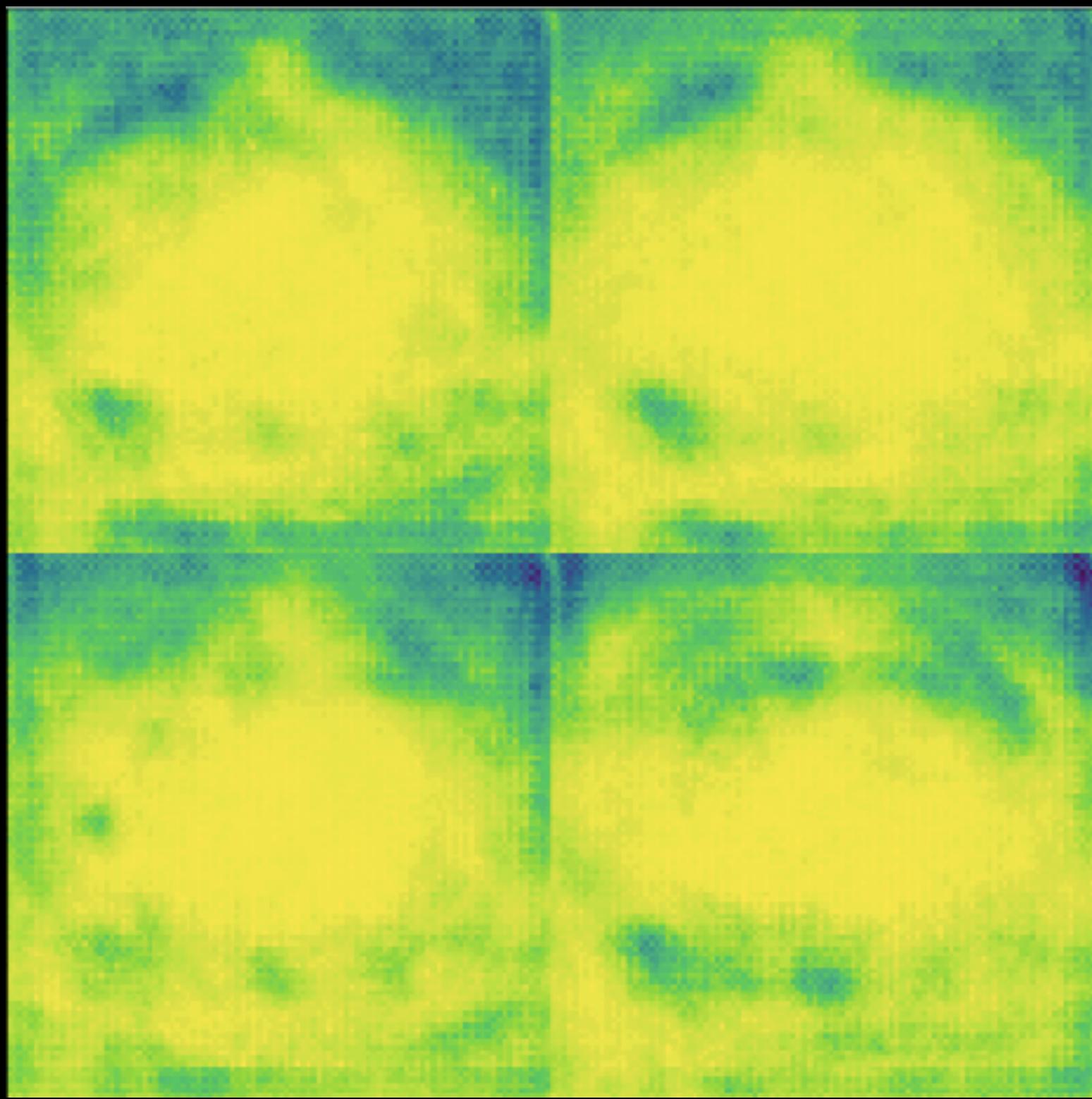


Hurdles

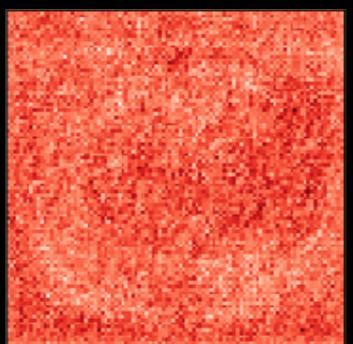
Many input images required

Takes time to train

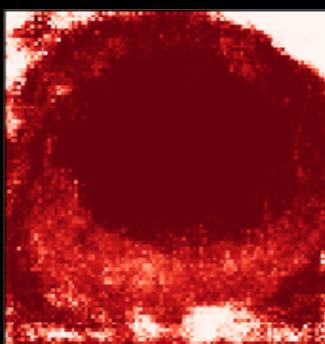
Significant loss of info



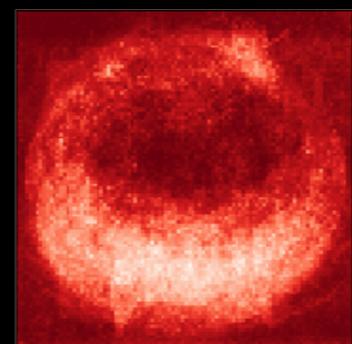
Results



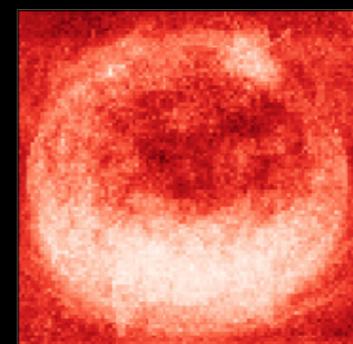
epoch 1



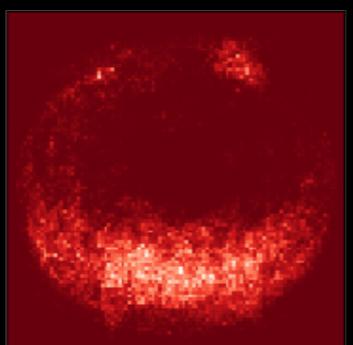
epoch 61



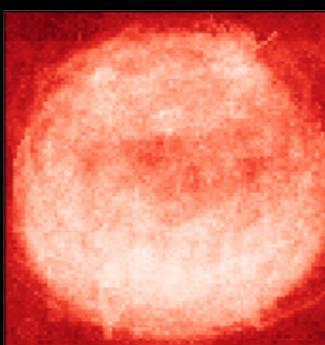
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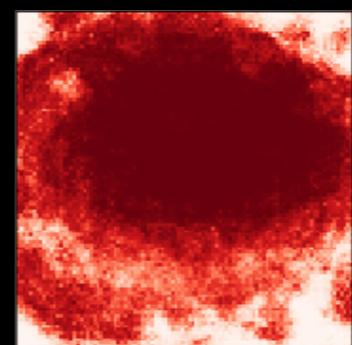
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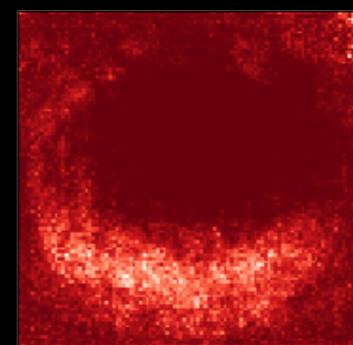
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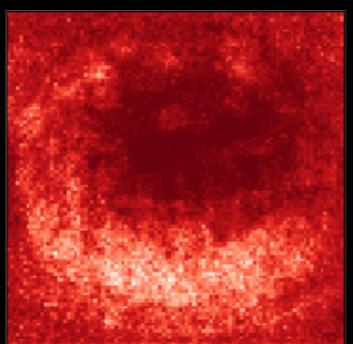
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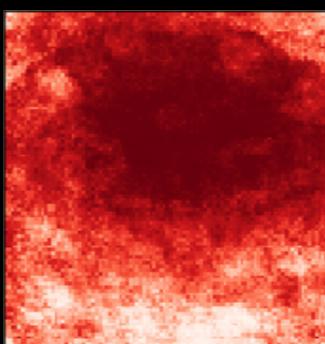
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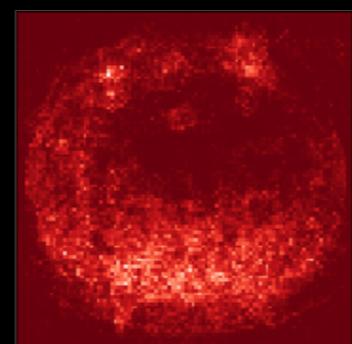
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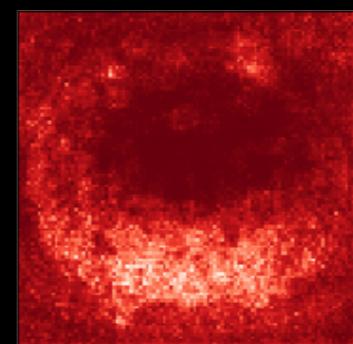
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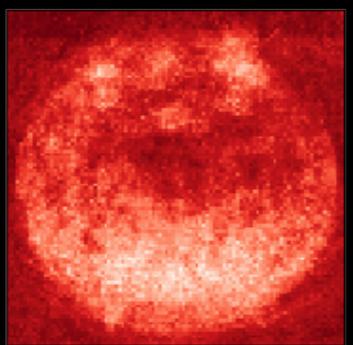
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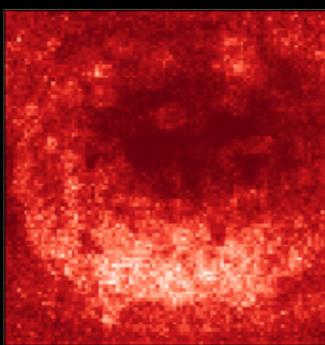
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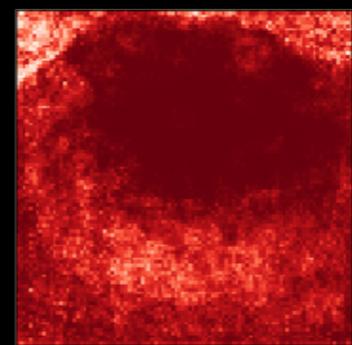
epoch 150



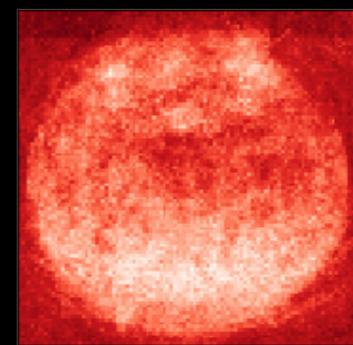
epoch 153



epoch 154

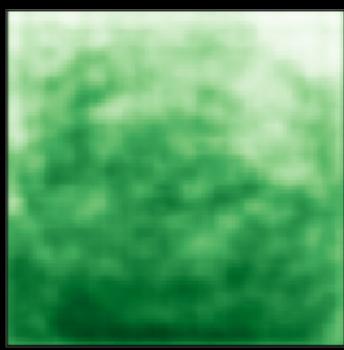


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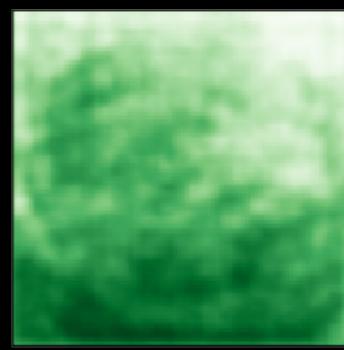


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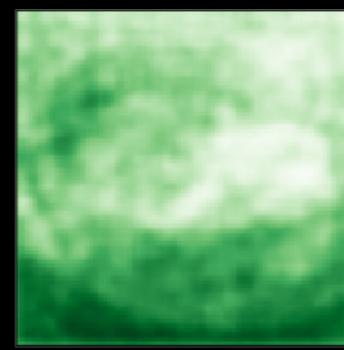
NEW cakes



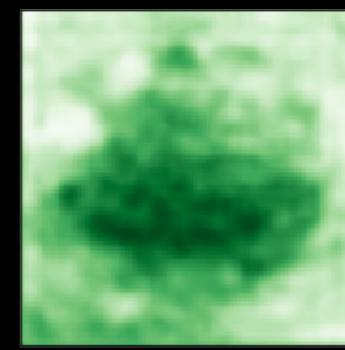
epoch 2



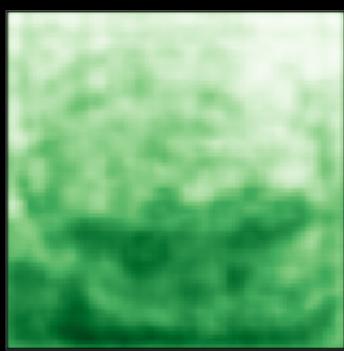
epoch 8



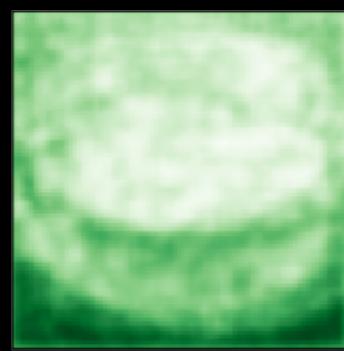
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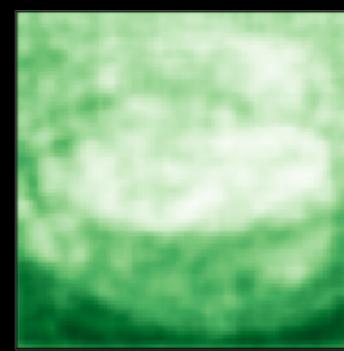
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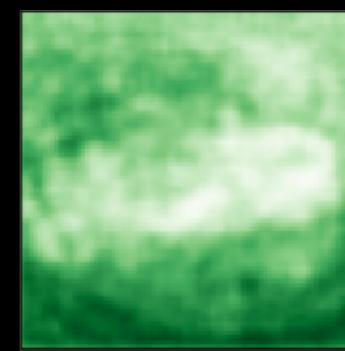
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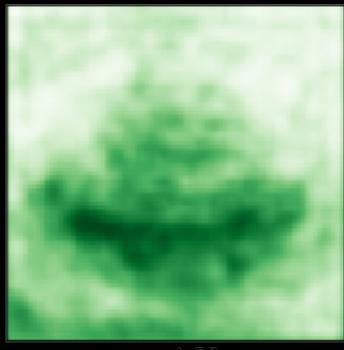
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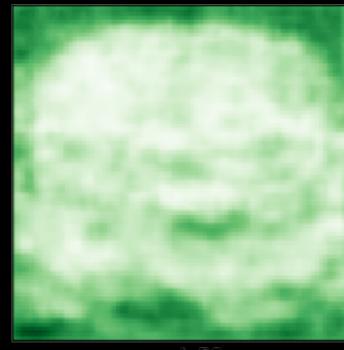
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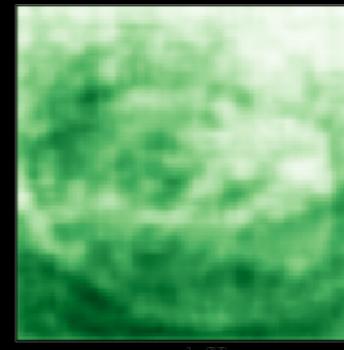
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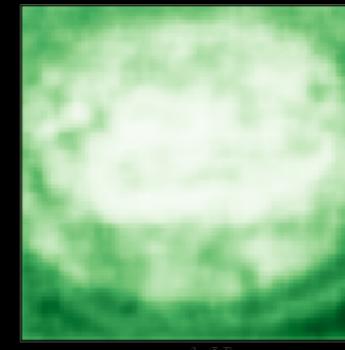
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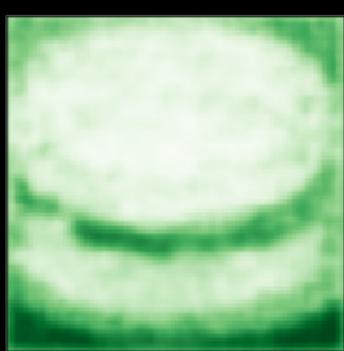
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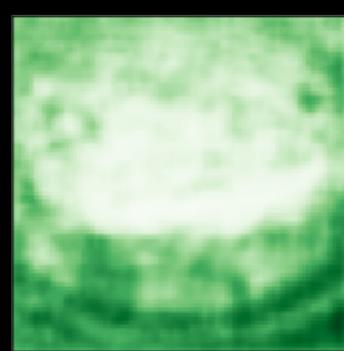
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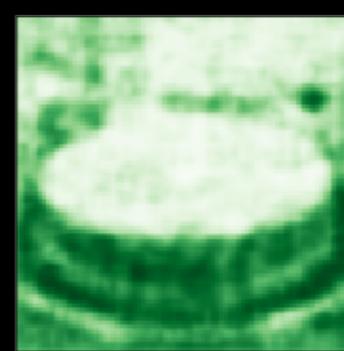
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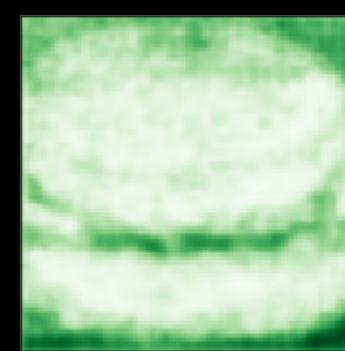
epoch 120



epoch 170

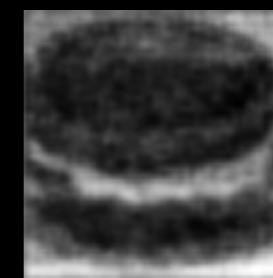
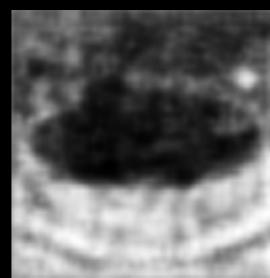


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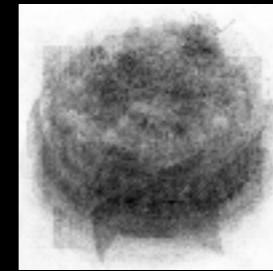


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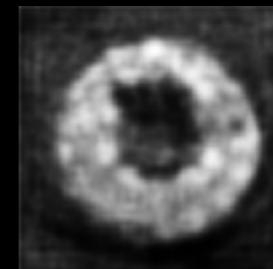
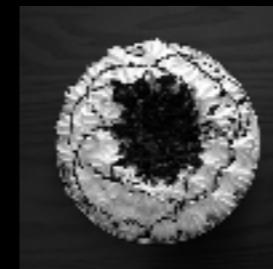
Overfit cakes



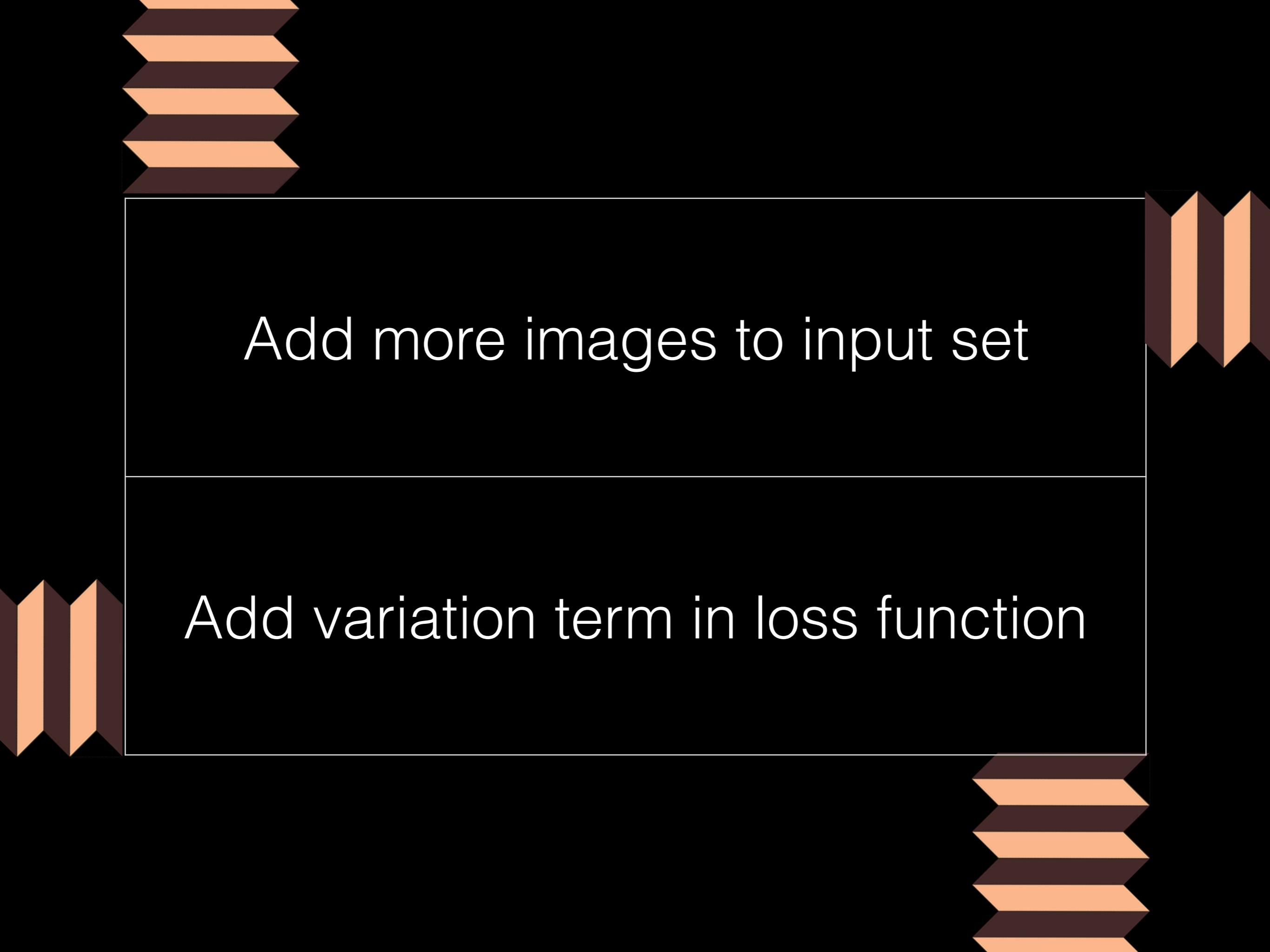
Not overfit



Overfit



Next Steps



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Thank you



the cake is a lie
the cake is a lie

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