

Class : Lorry / Truck

Image 1:



Image 2:



Image 3:



Image 4:



Image 5:



Image 6:



Image 7:



Image 8:



Image 9:



Image 10:



The Convolutional Neural Network consists of -

- 5 Convolutional Layers + Pooling Layers
- A Dense Network
- 3 x 3 Filters
- Input Images re-sized to 224 x 224
- The output is plotted using the 'Greens' colour combination of the CMAP function. A green hue provides a better output visibility than a Grey hue.

Let us Validate the Feature Map after each convolutional layer :

Convolutional Layer -1

































































Image ID	Output							
image1								
								
								
								
								
								
								
								

image2	
image3	

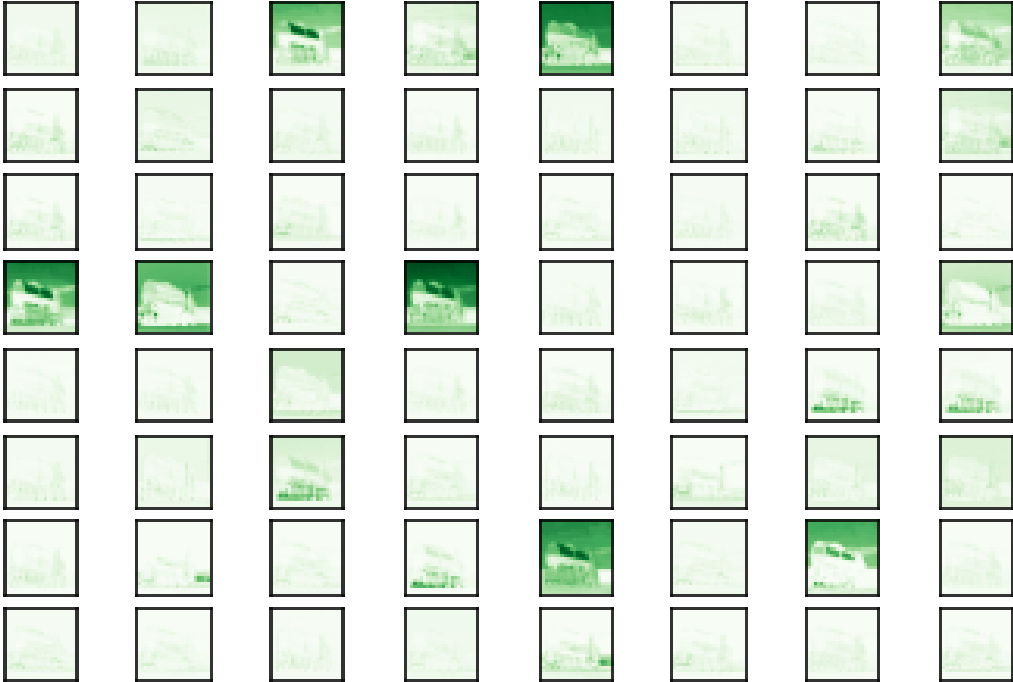
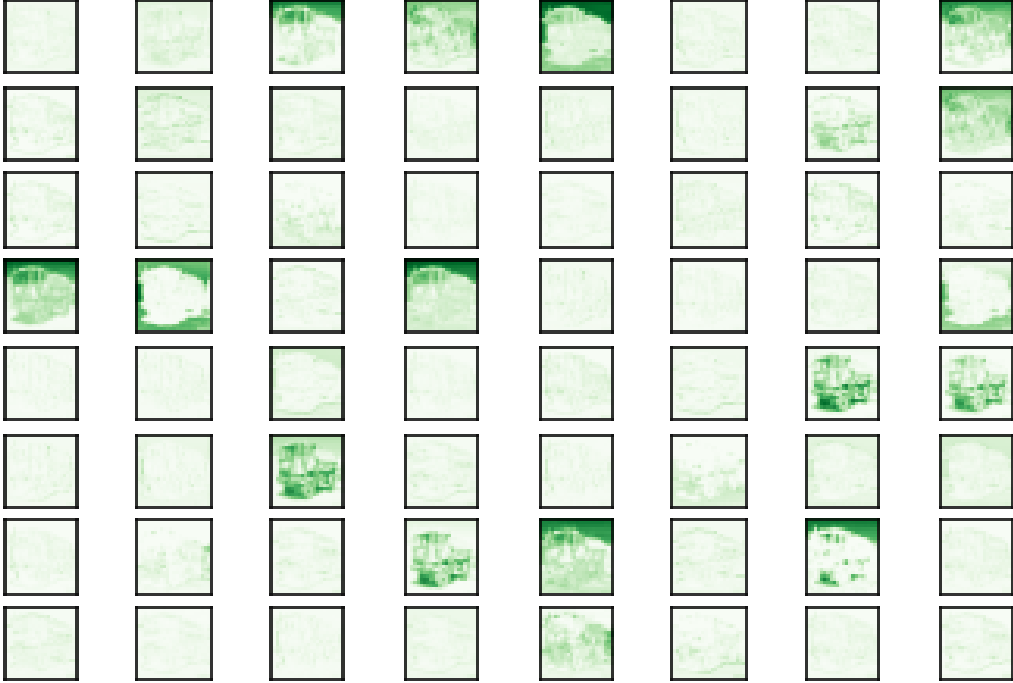
image4	
image5	



image6	
image7	


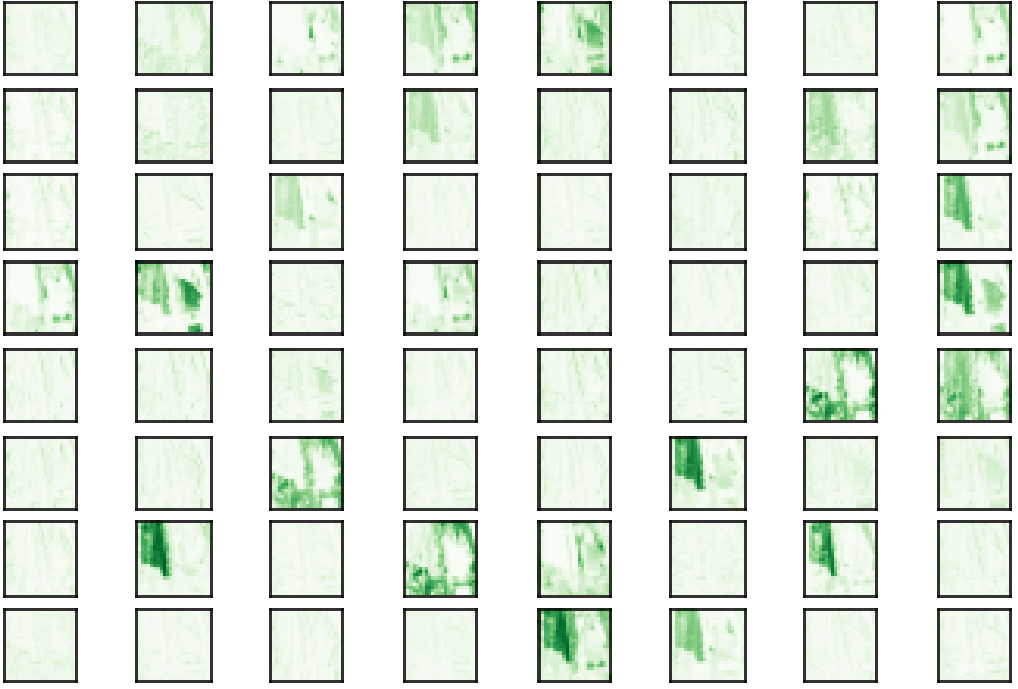
image8	
image9	

image10



Convolutional Layer -2

































































































































Image ID	Output							
image1								
								
								
								
								
								
								
								
image2								
								
								
								
								
								
								
								



image3	
image4	

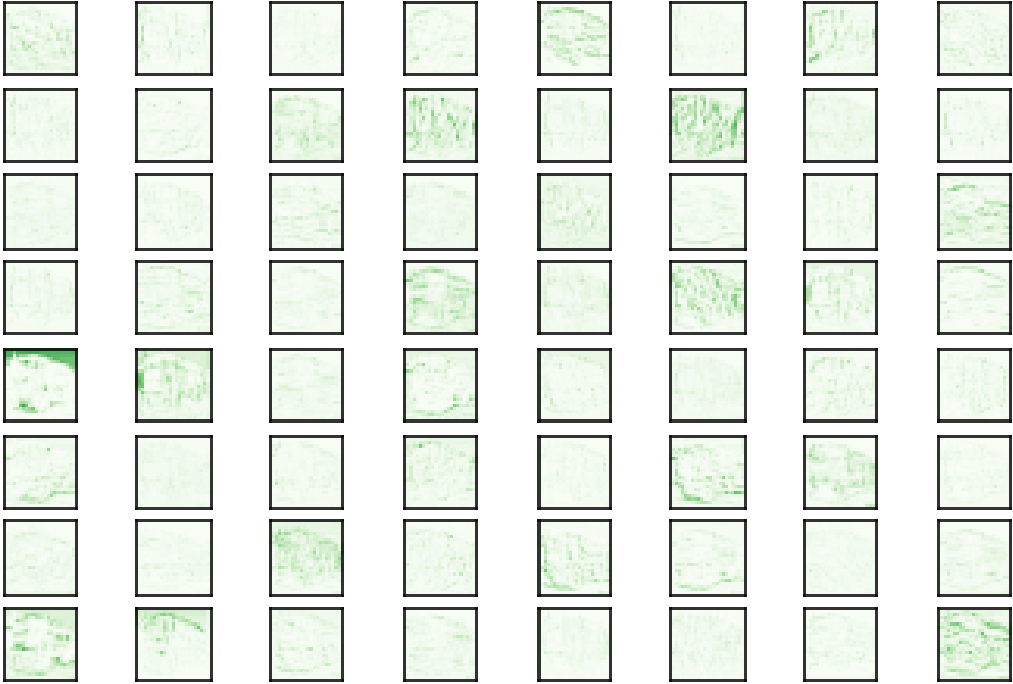

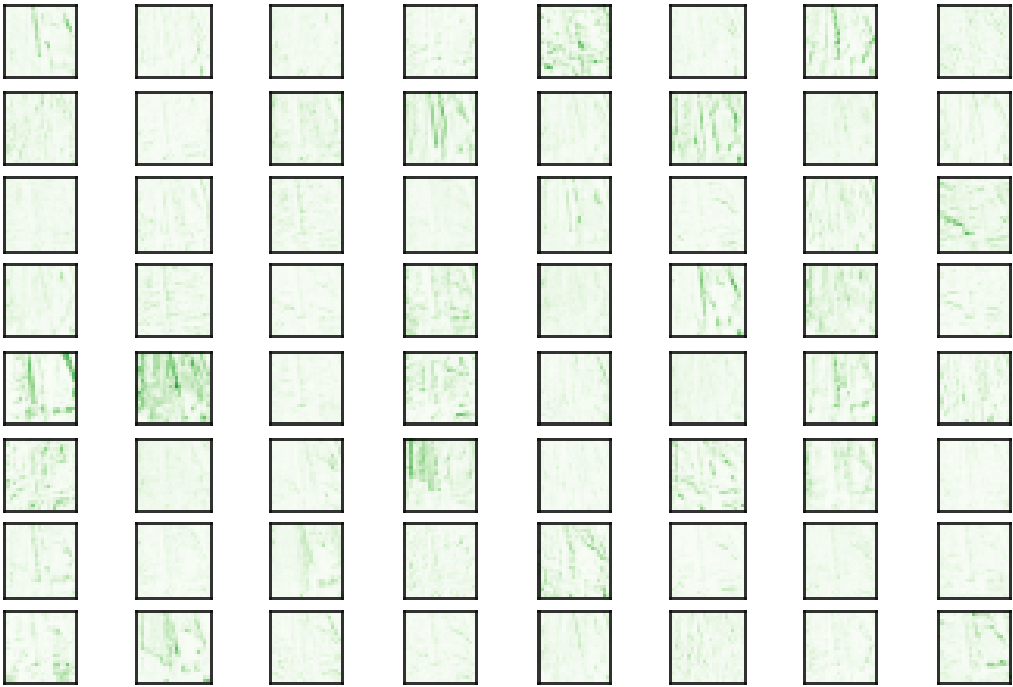
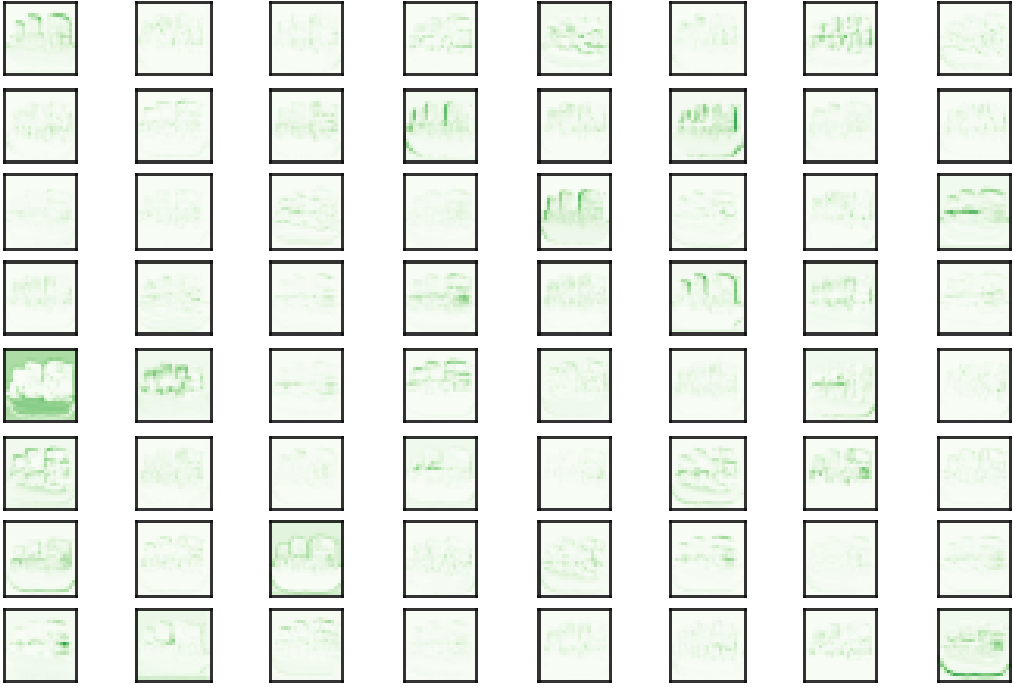
image5	
image6	

image7	
image8	

image9	
image10	

Convolutional Layer - 3


















Image ID	Output							
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image2								
								
								
								
								
								
								
								

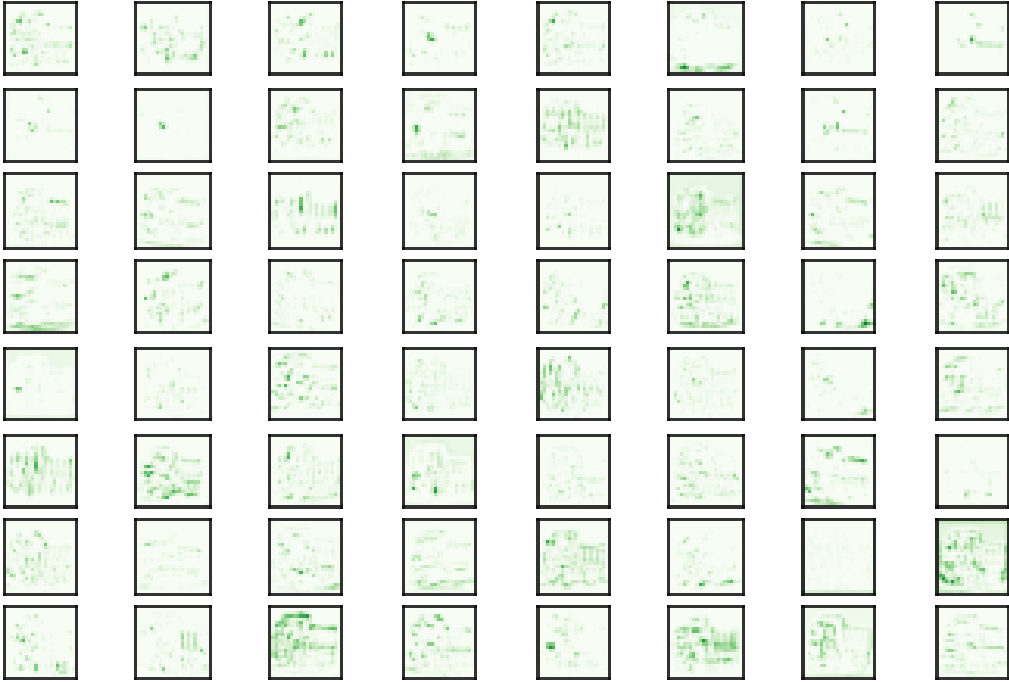

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image4	

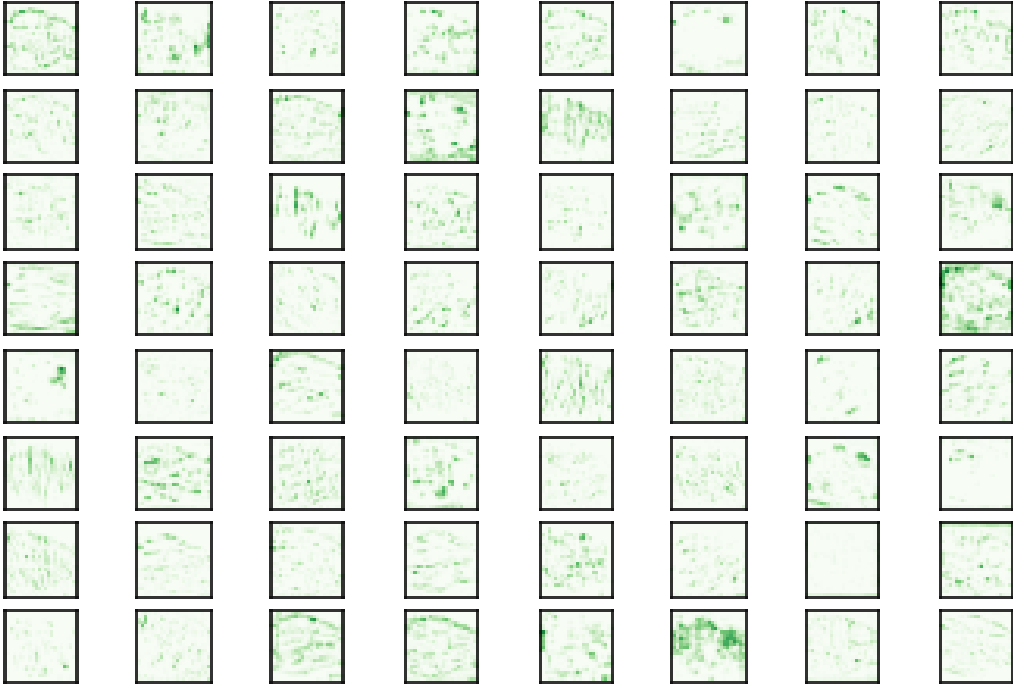
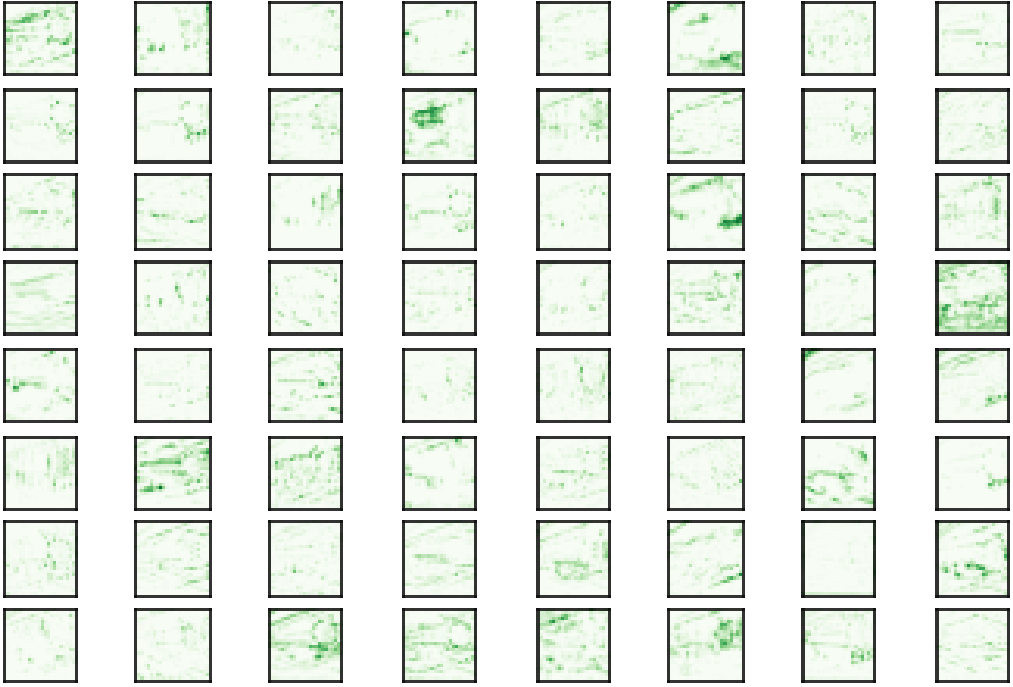
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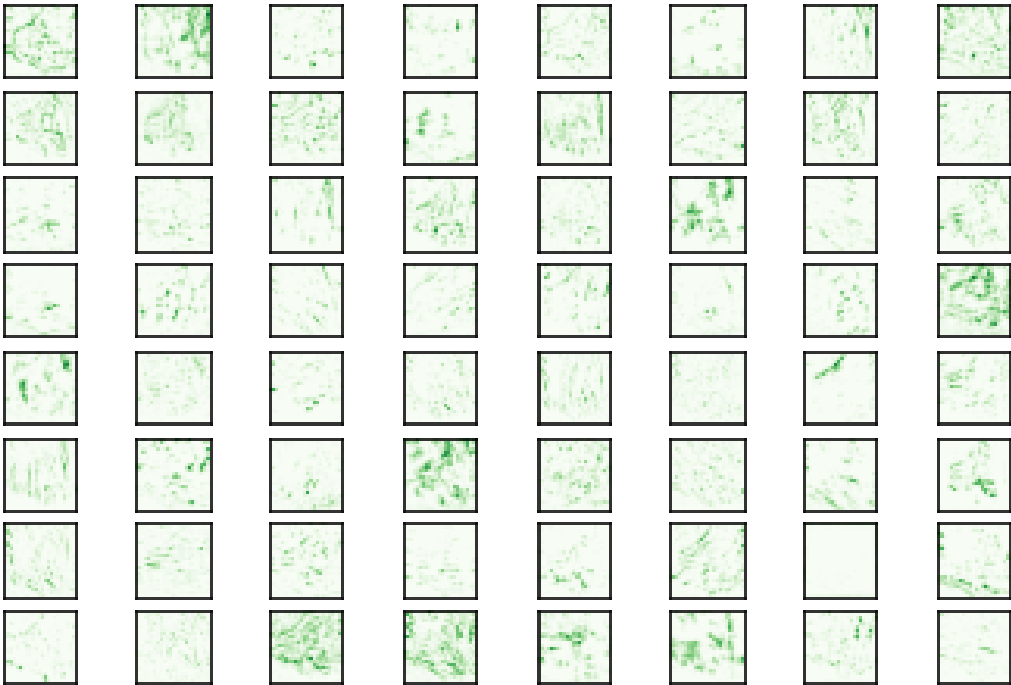
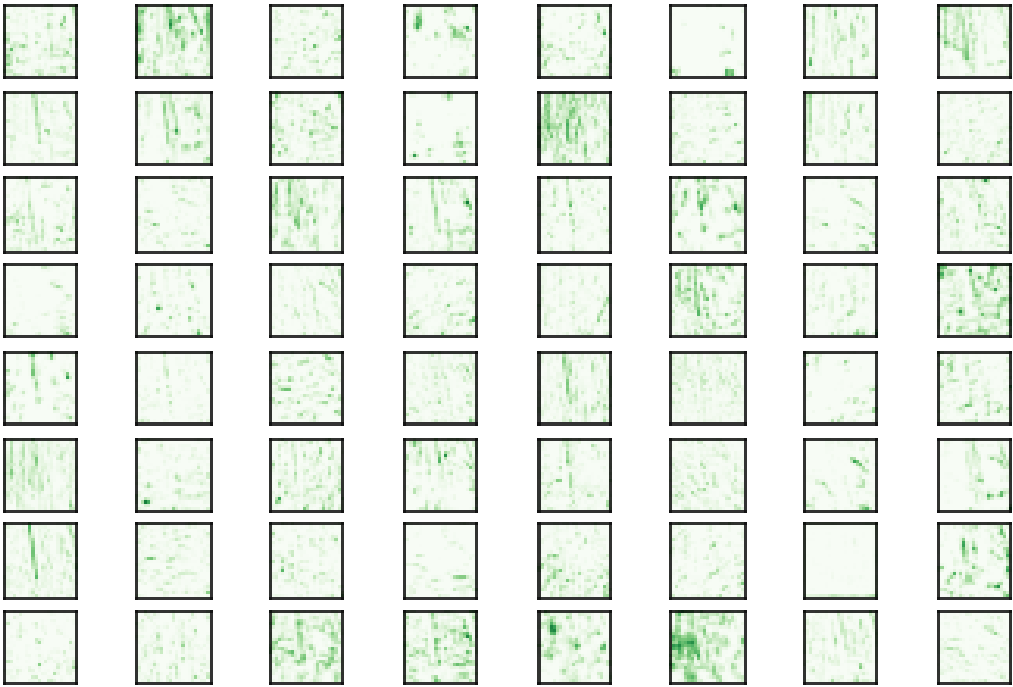
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image8	

image9	
image10	

Convolutional Layer - 4

































































































































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image2								
								
								
								
								
								
								
								

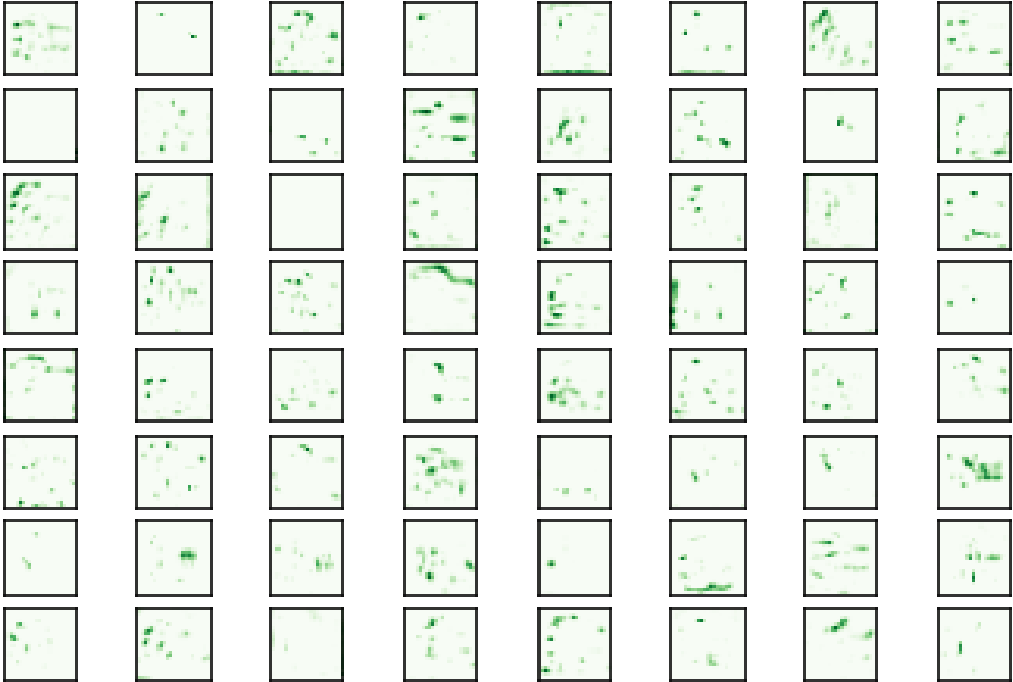
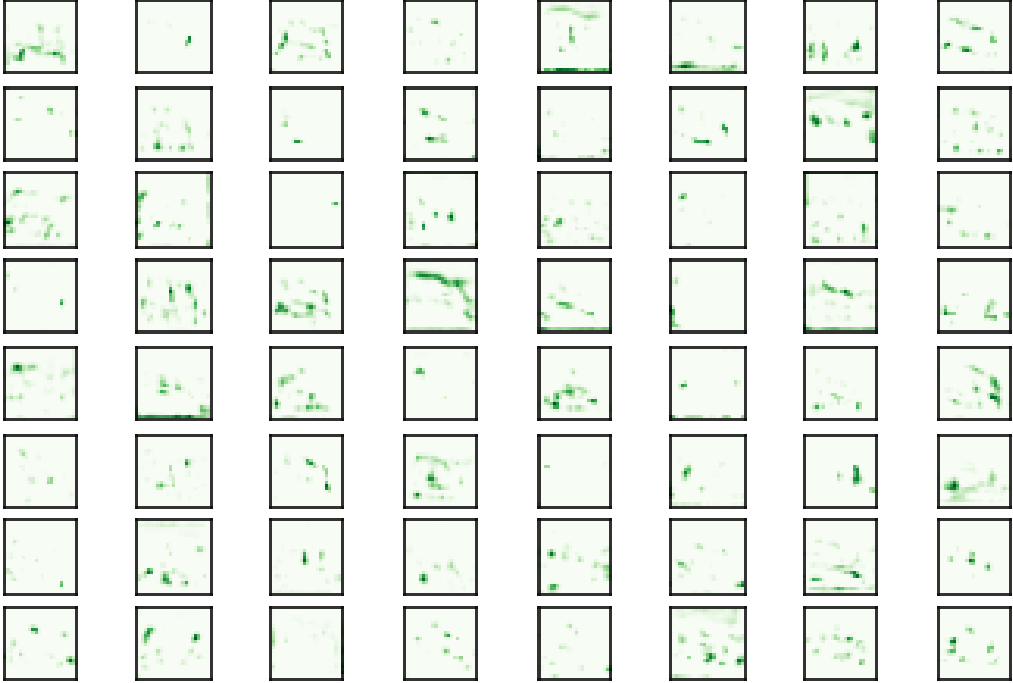
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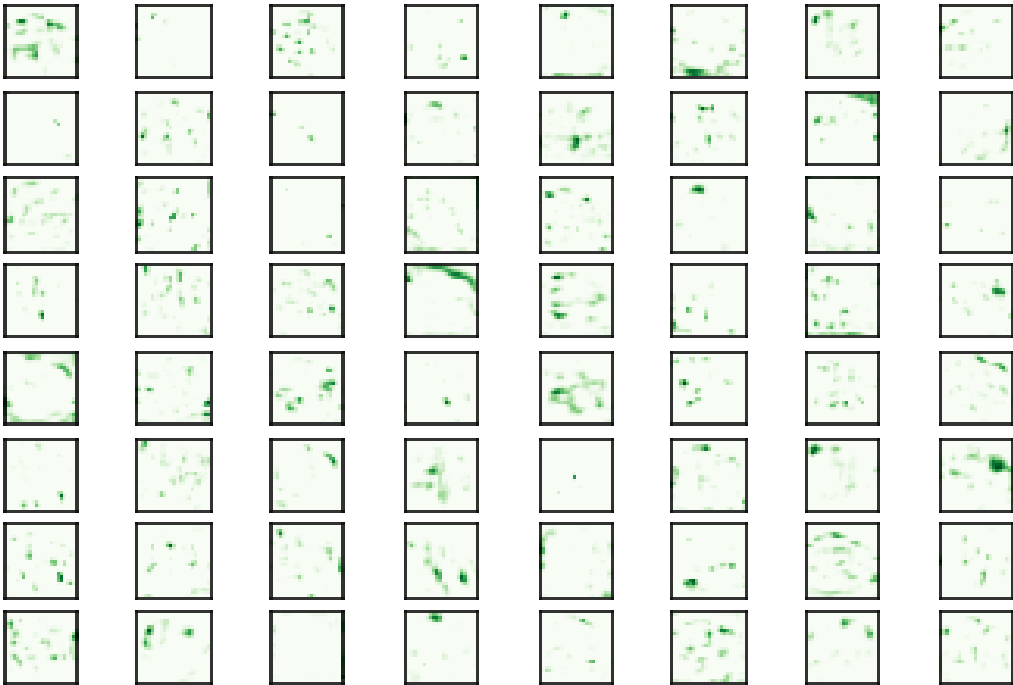
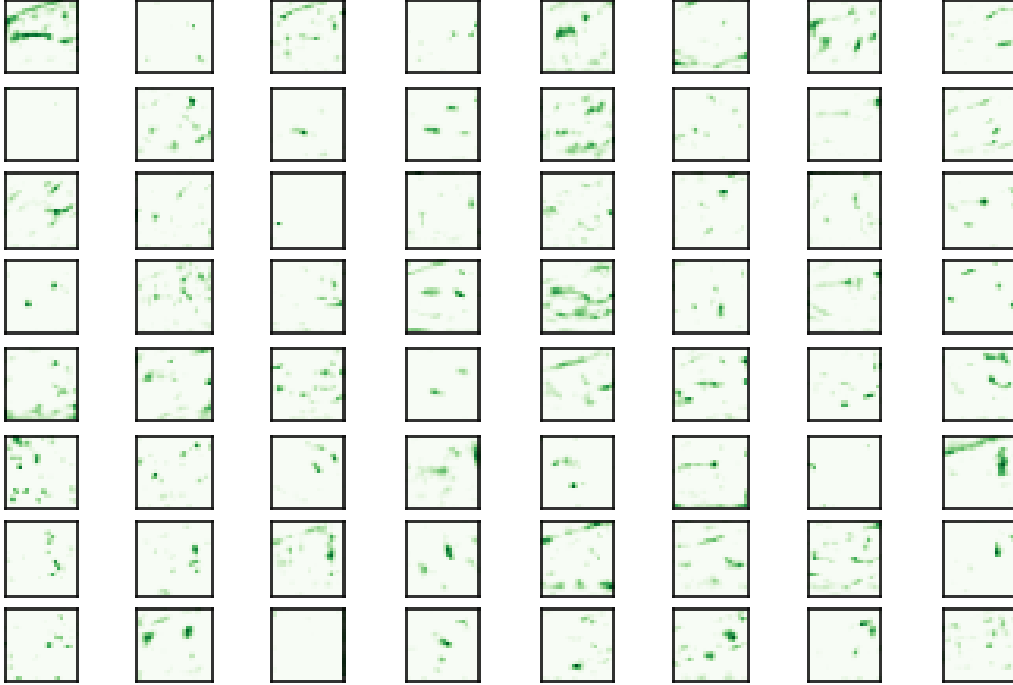
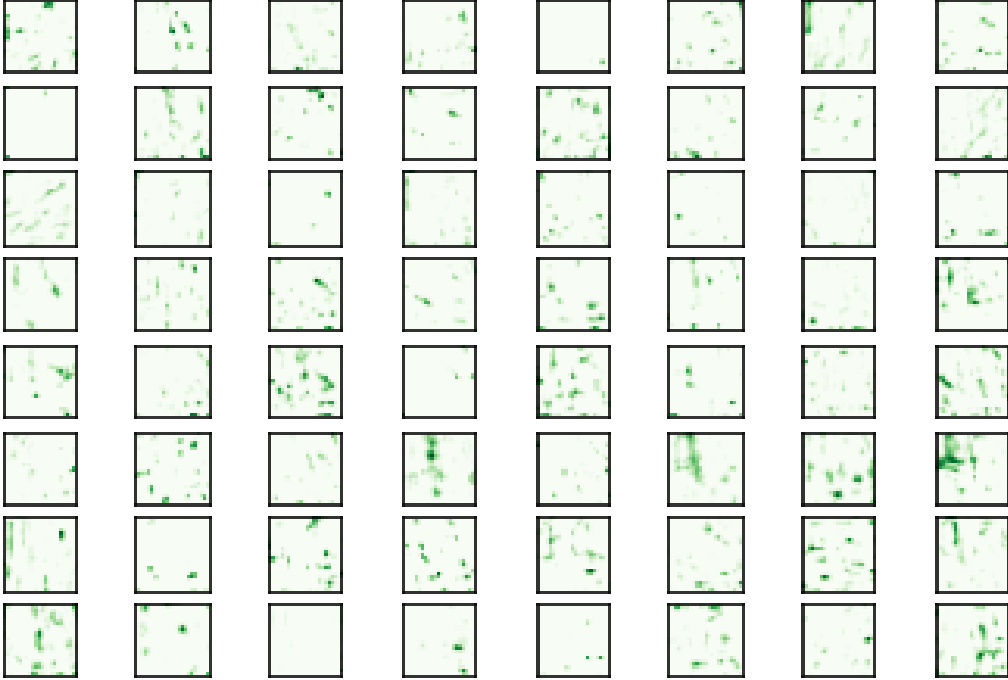
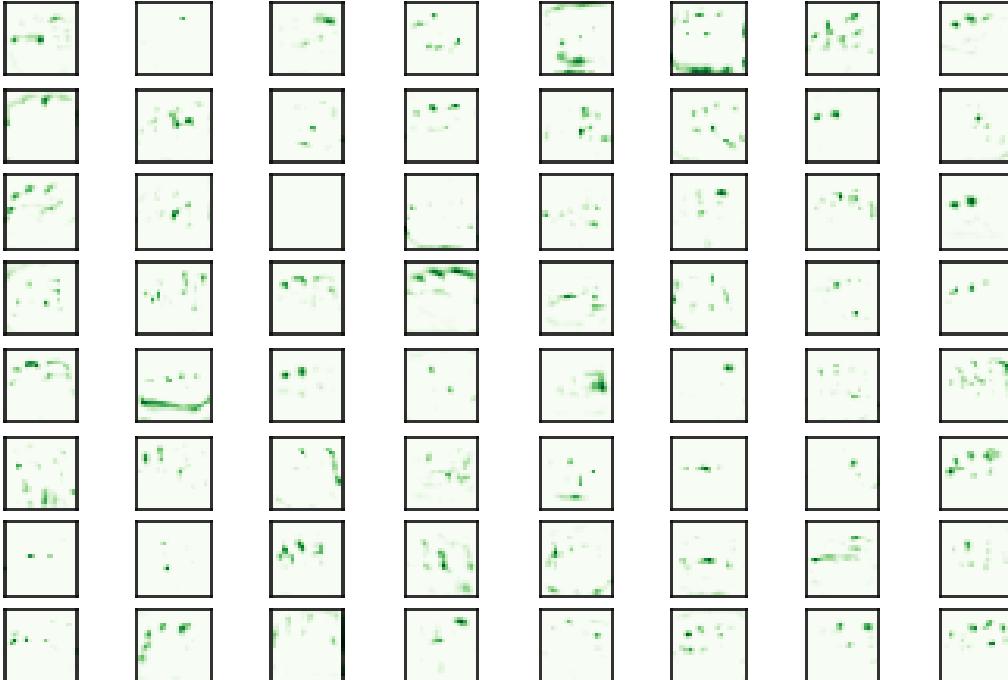
image5	
image6	

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image8	

image9	
image10	

Convolutional Layer - 5

































































































































Image ID	Output							
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image2								
								
								
								
								
								
								
								

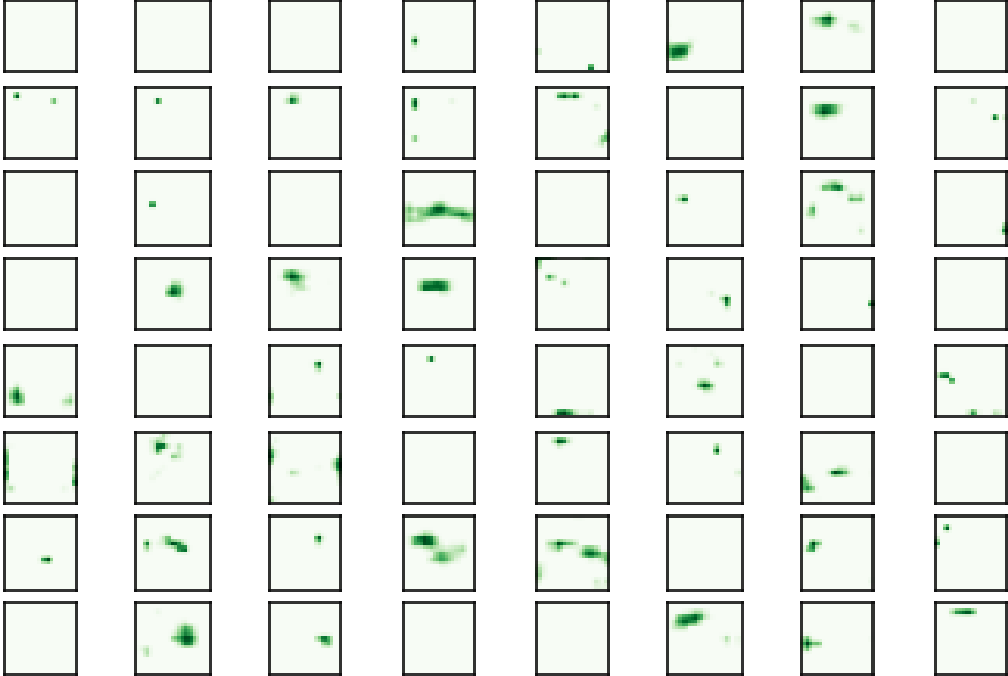
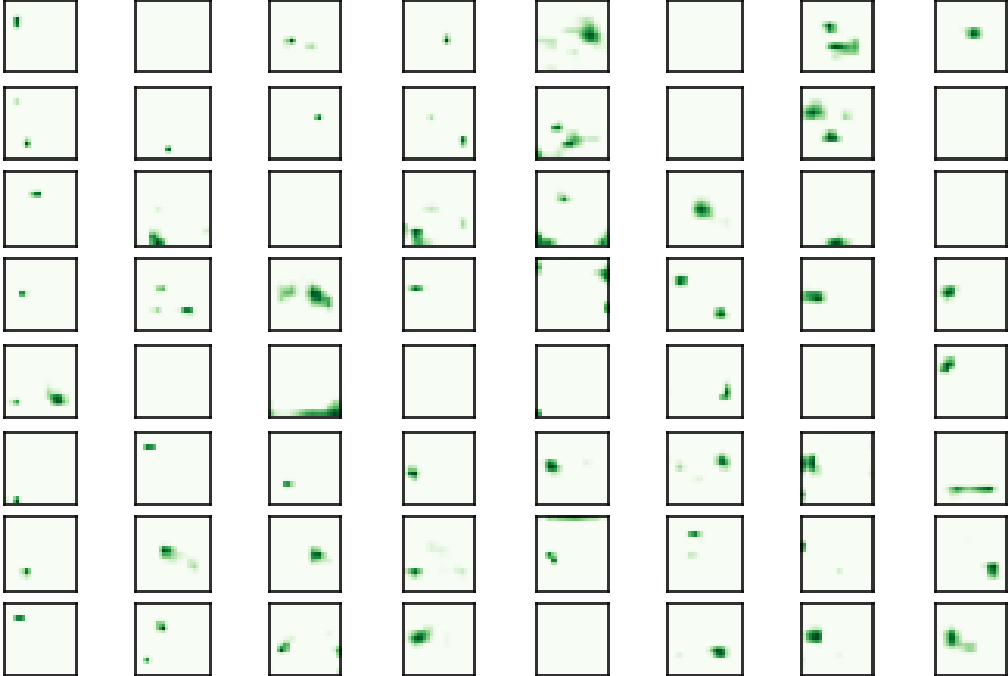
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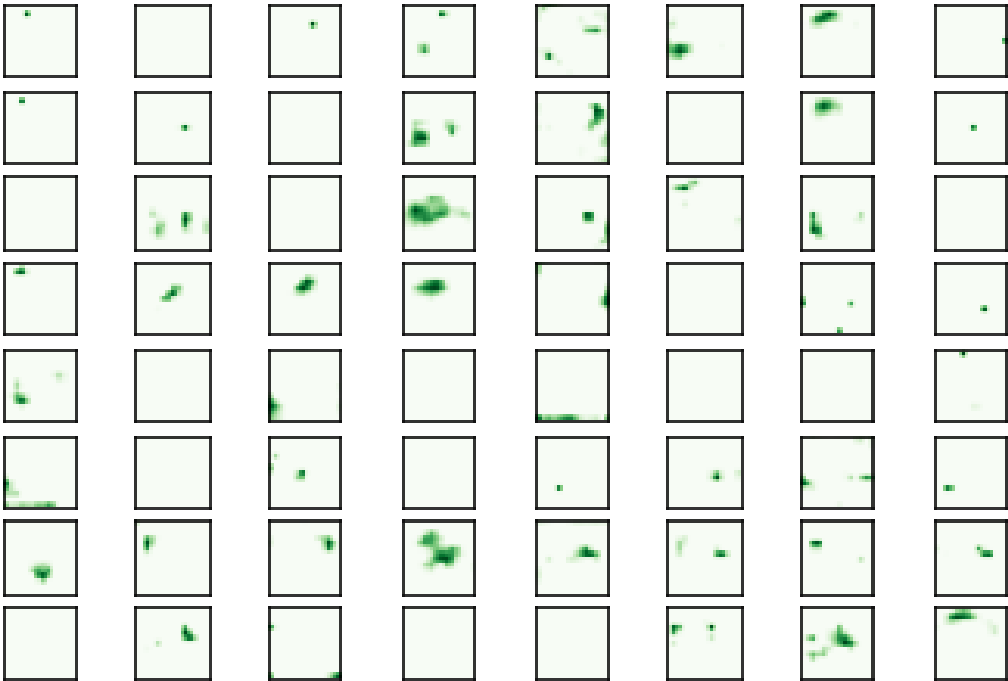
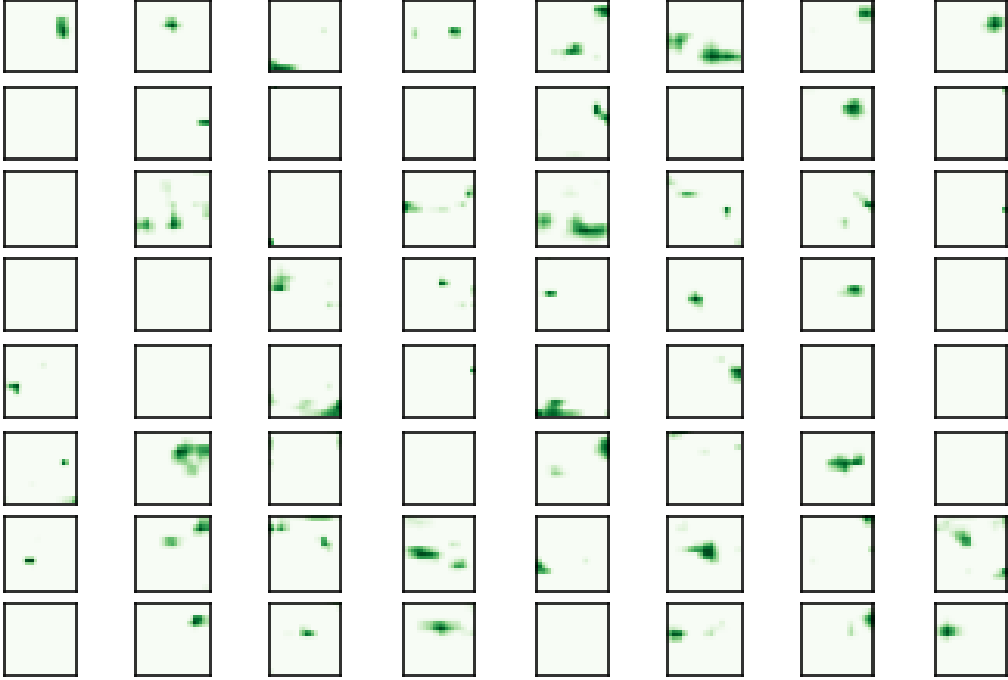
image5	 <p>A 9x8 grid of 72 small square images. Each image contains a different pattern of green pixels on a light background. The patterns vary in shape, size, and location, including small dots, larger clusters, and elongated streaks.</p>
image6	 <p>A 9x8 grid of 72 small square images. Each image contains a different pattern of green pixels on a light background. The patterns are more varied and complex than in the first grid, including some with multiple distinct clusters and others with more diffuse, cloud-like shapes.</p>

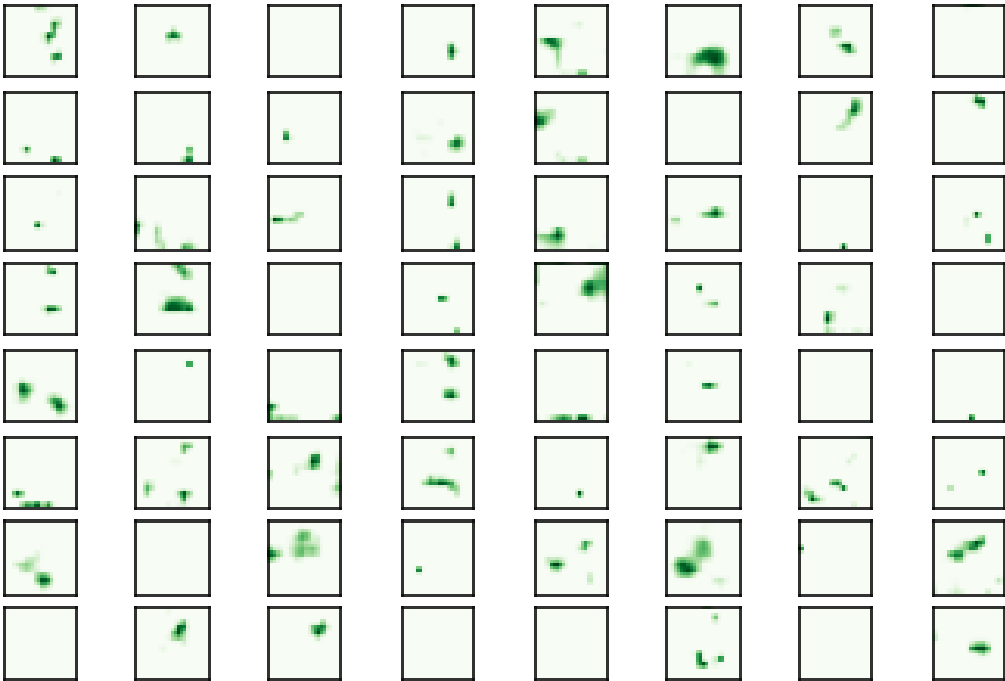
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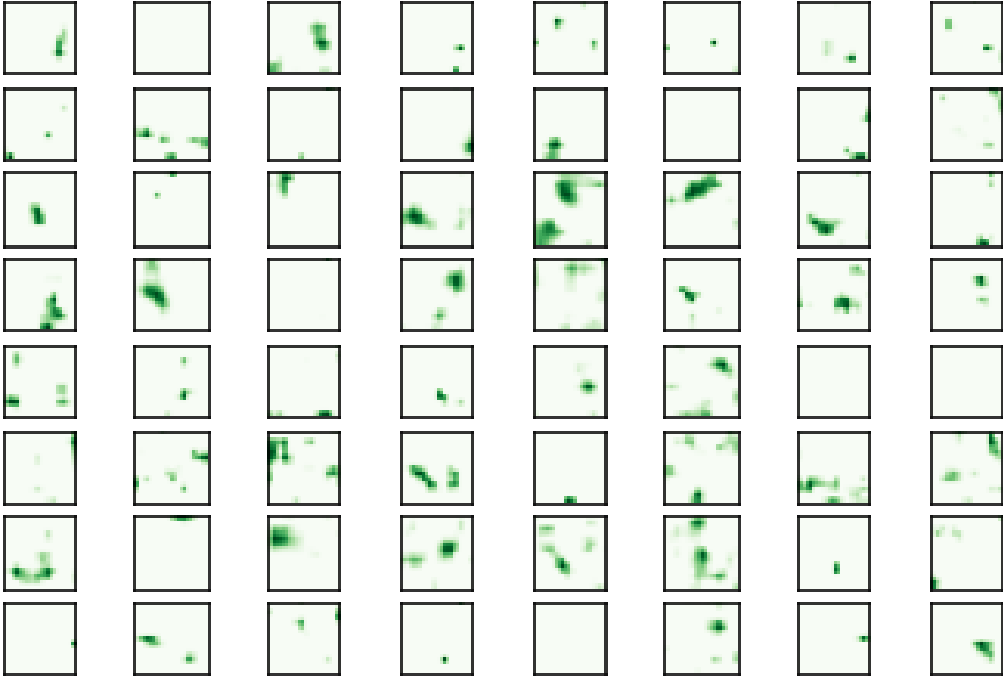
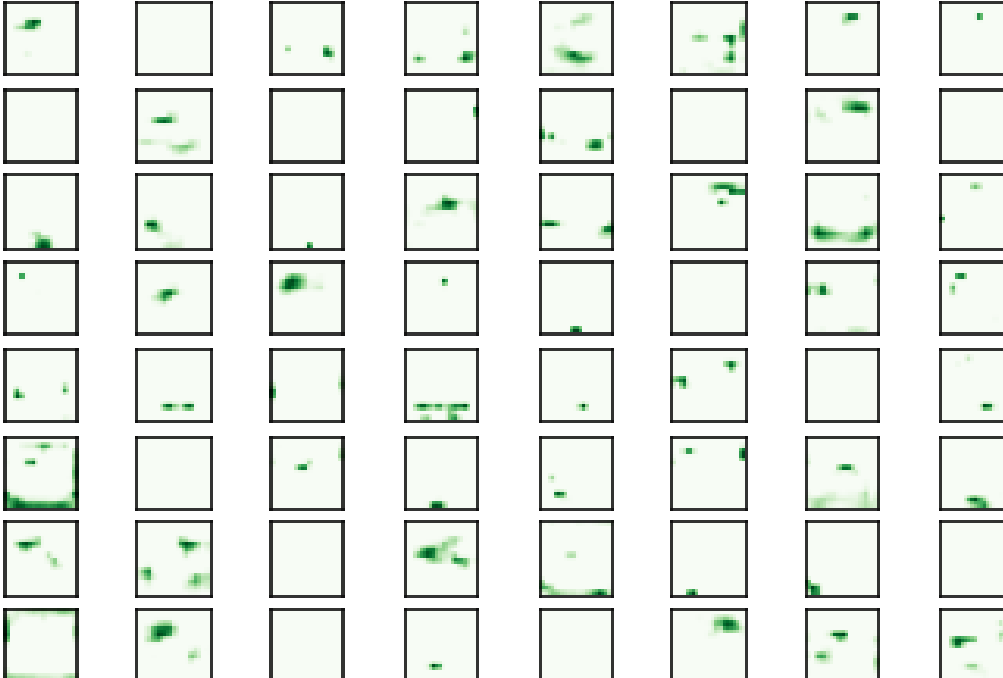
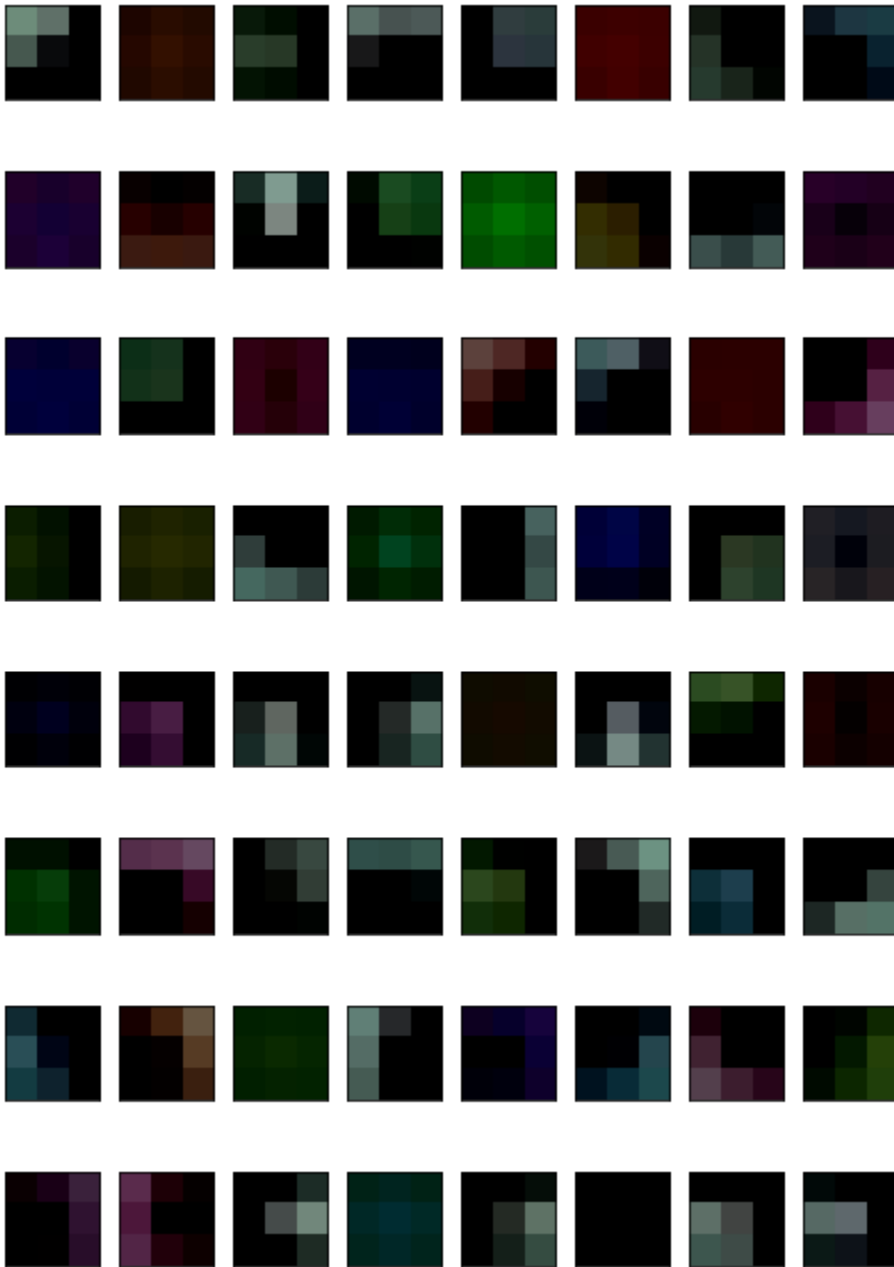
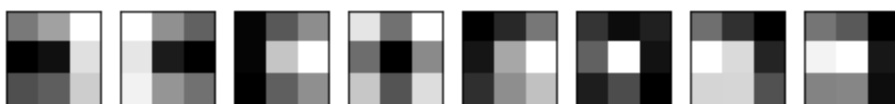
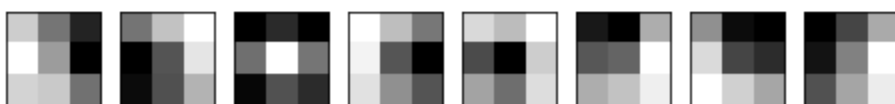
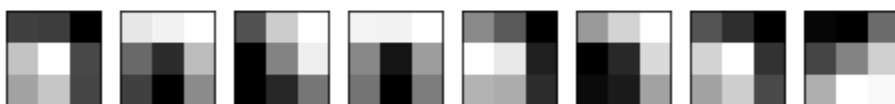
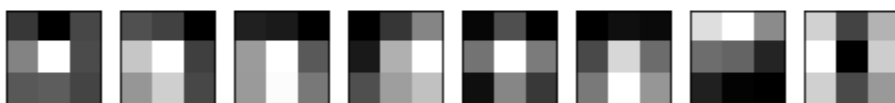
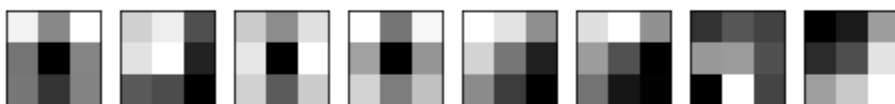
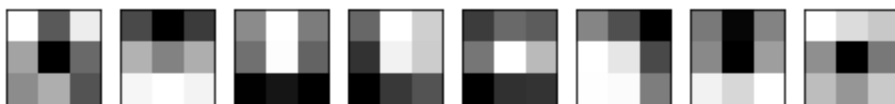
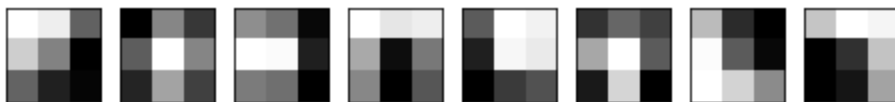
image9	
image10	

Image - 1

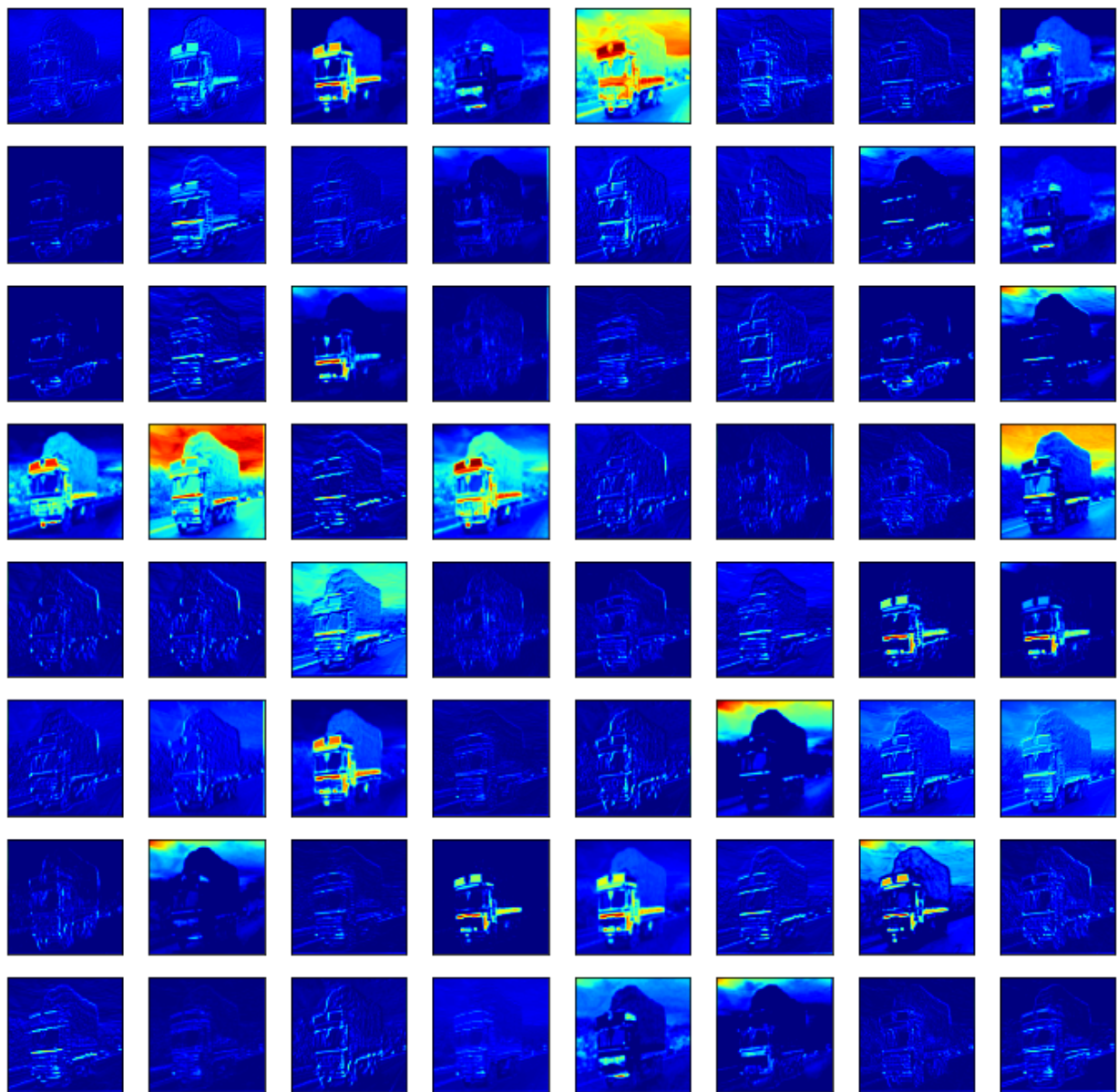
RGB Filter



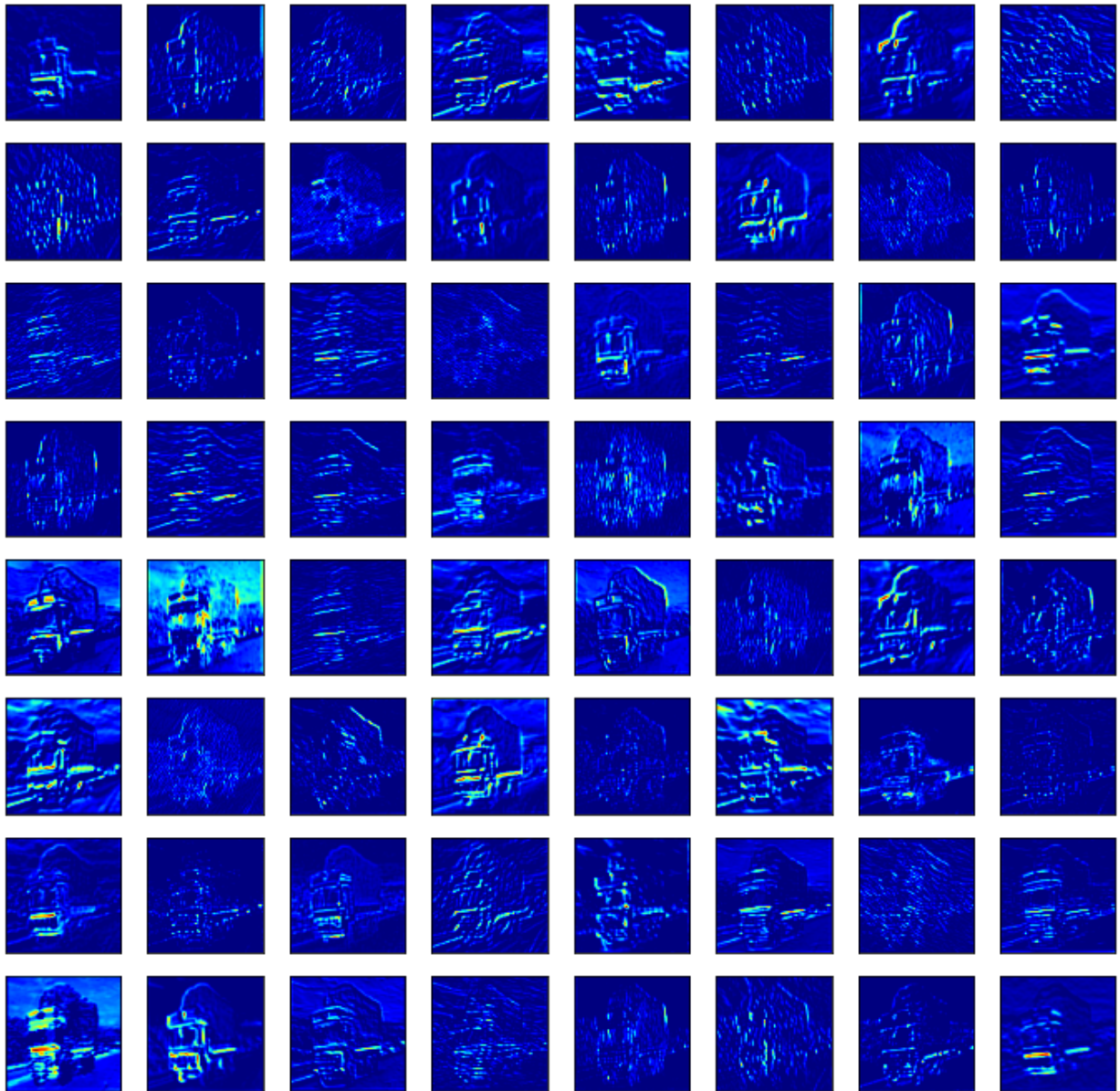
Black / White Filter



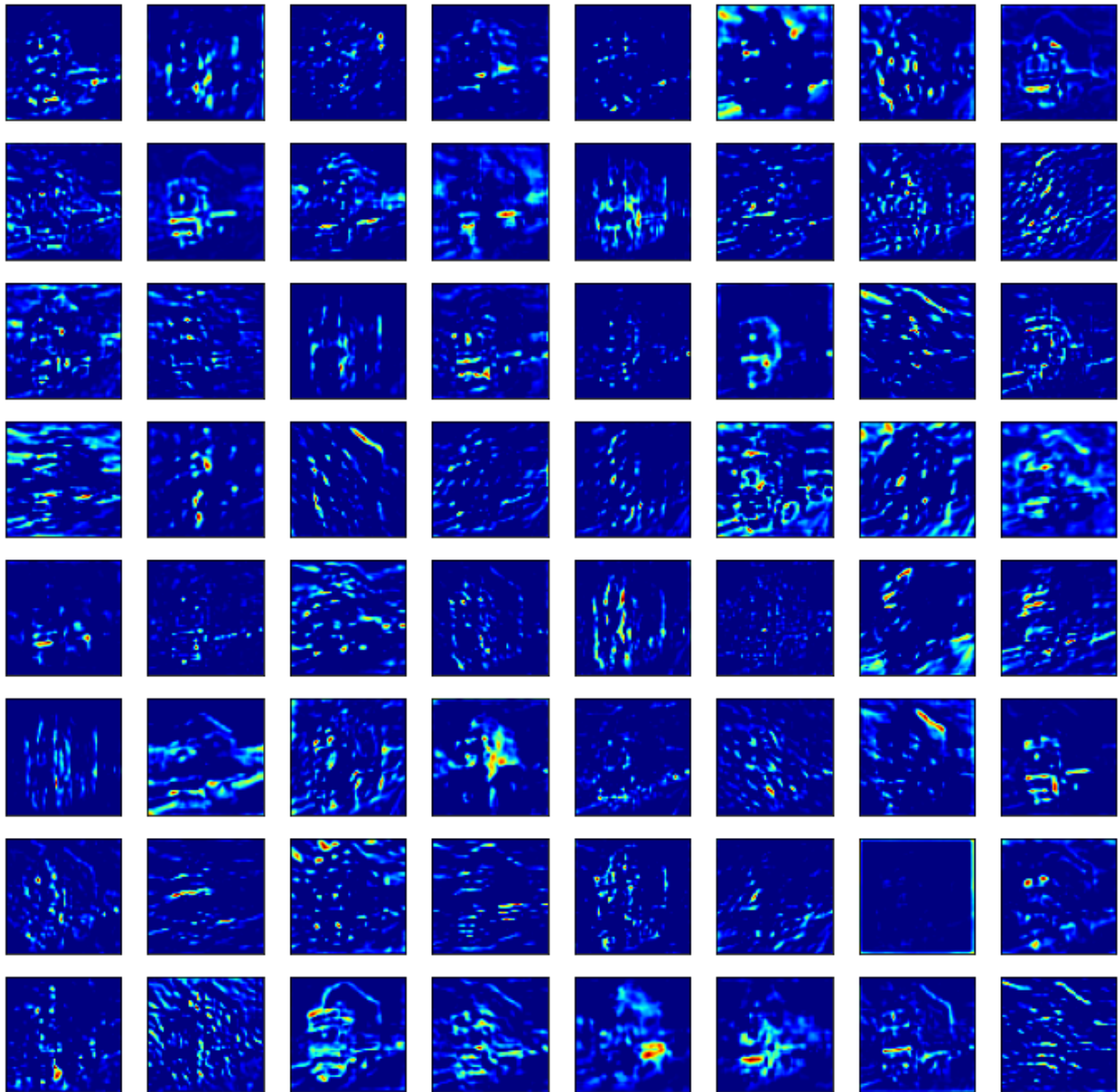
Level - 1 Feature Map



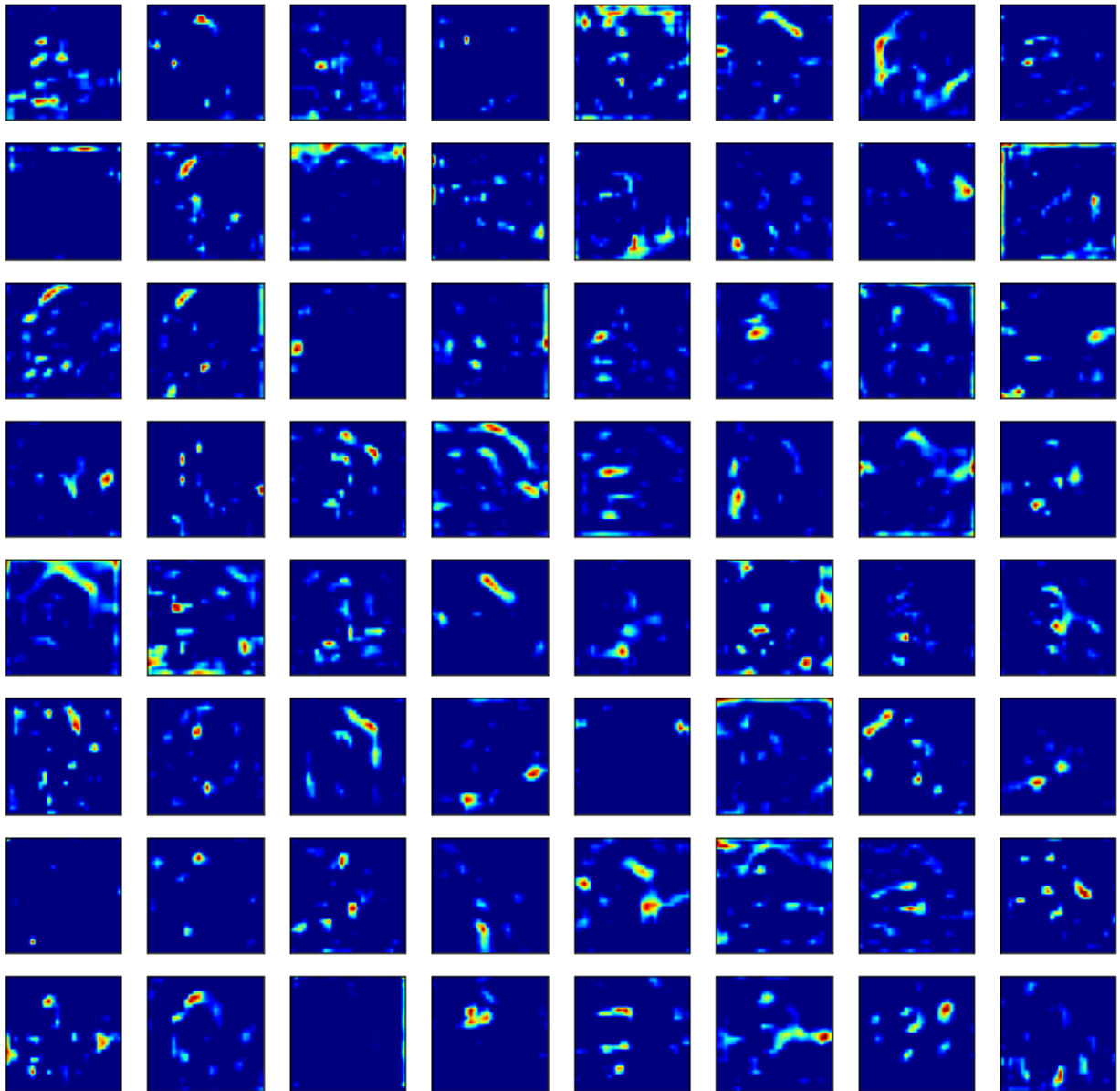
Level - 2



Level - 3



Level - 4



Level - 5

