## Appendix

## **Application to Natural Image Patches**

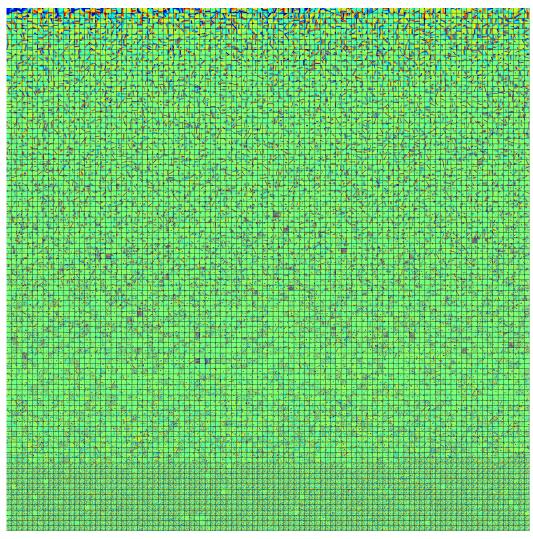


Figure 4: Image of all generative fields after S5C was applied with  $H=10\,000$ . Latent components  $\vec{W}_h$  learned by the S5C algorithm. The components are sorted from left to right and top to bottom with respect to their posterior probabilities averaged over data points.

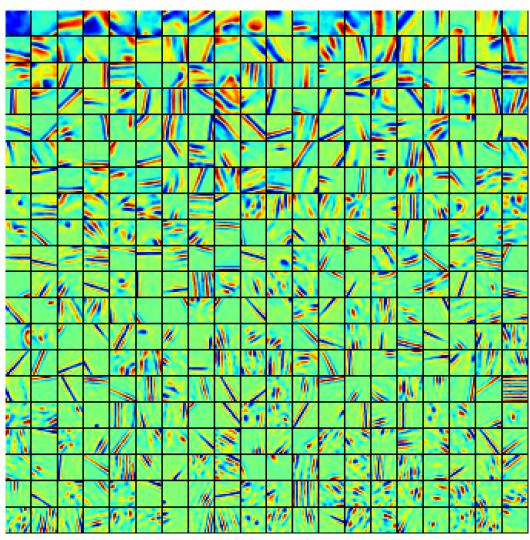


Figure 5: 400 of the  $10\,000$  generative fields randomly selected for increase readability. Out of  $H=10\,000$  learned components, we pick every  $4^{th}$  component for display starting with the most frequently activated fields. Here we show the first 400 such fields.