

## Appendix

### Application to Natural Image Patches

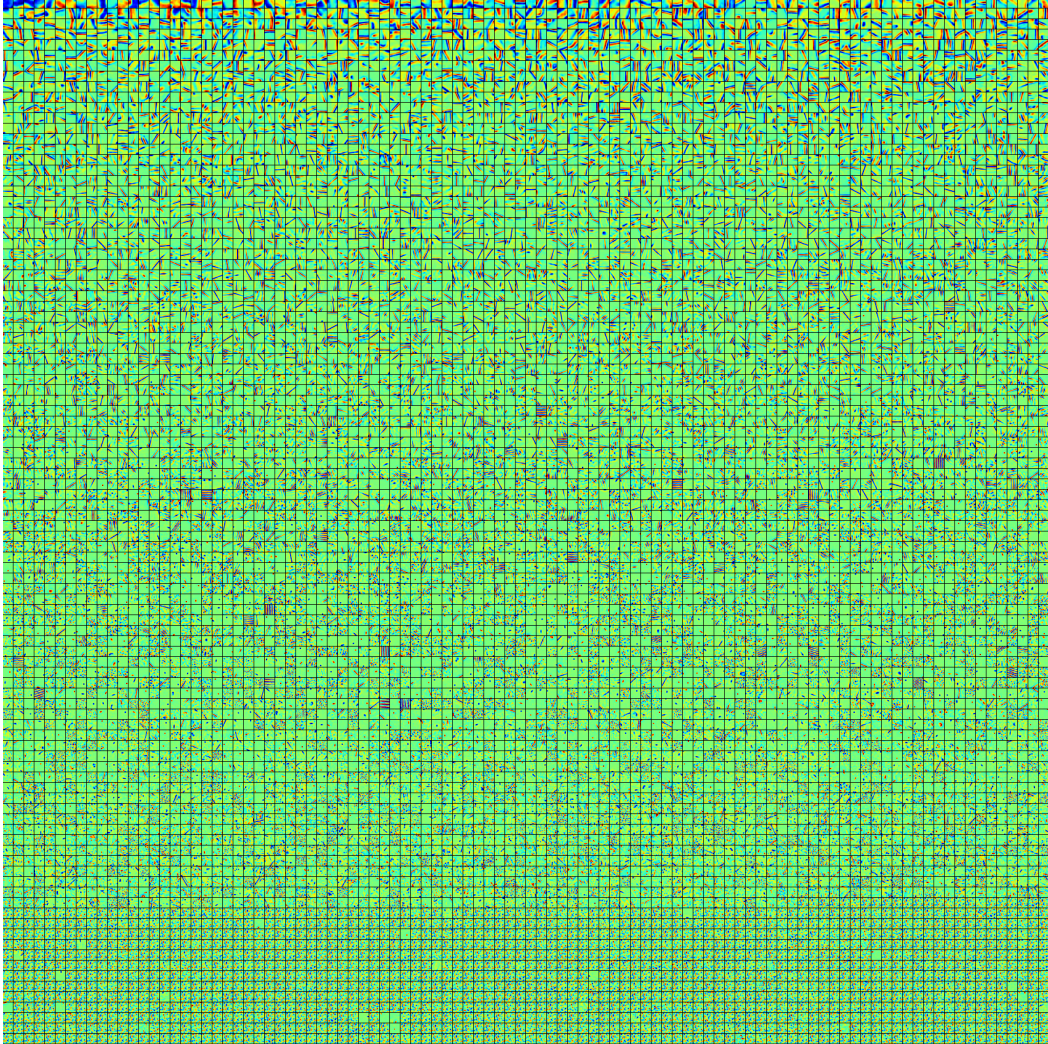


Figure 4: Image of all generative fields after S5C was applied with  $H = 10\,000$ . Latent components  $\bar{W}_h$  learned by the S5C algorithm. The components are sorted from left to right and top to bottom with respect to their posterior probabilities averaged over data points.

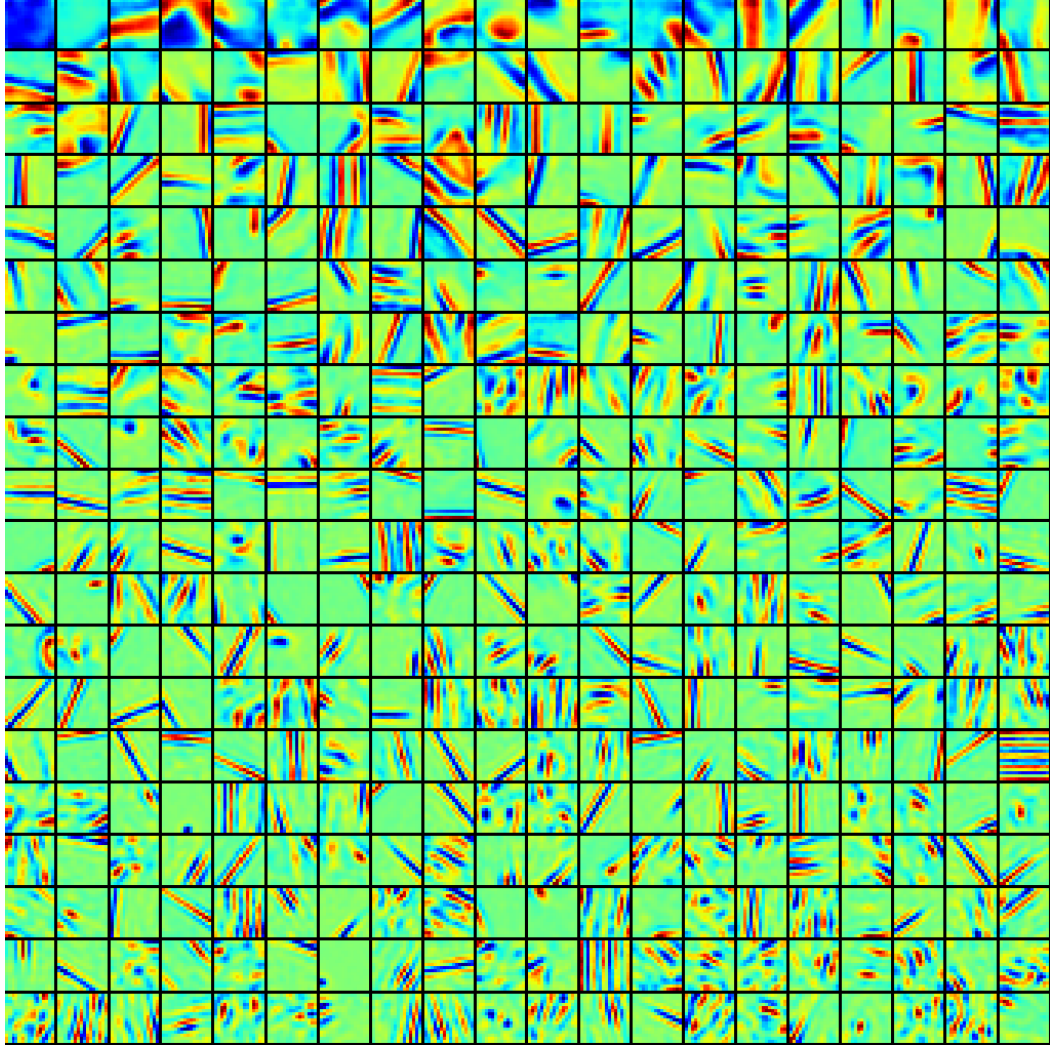


Figure 5: 400 of the 10 000 generative fields randomly selected for increase readability. Out of  $H = 10\,000$  learned components, we pick every 4<sup>th</sup> component for display starting with the most frequently activated fields. Here we show the first 400 such fields.