

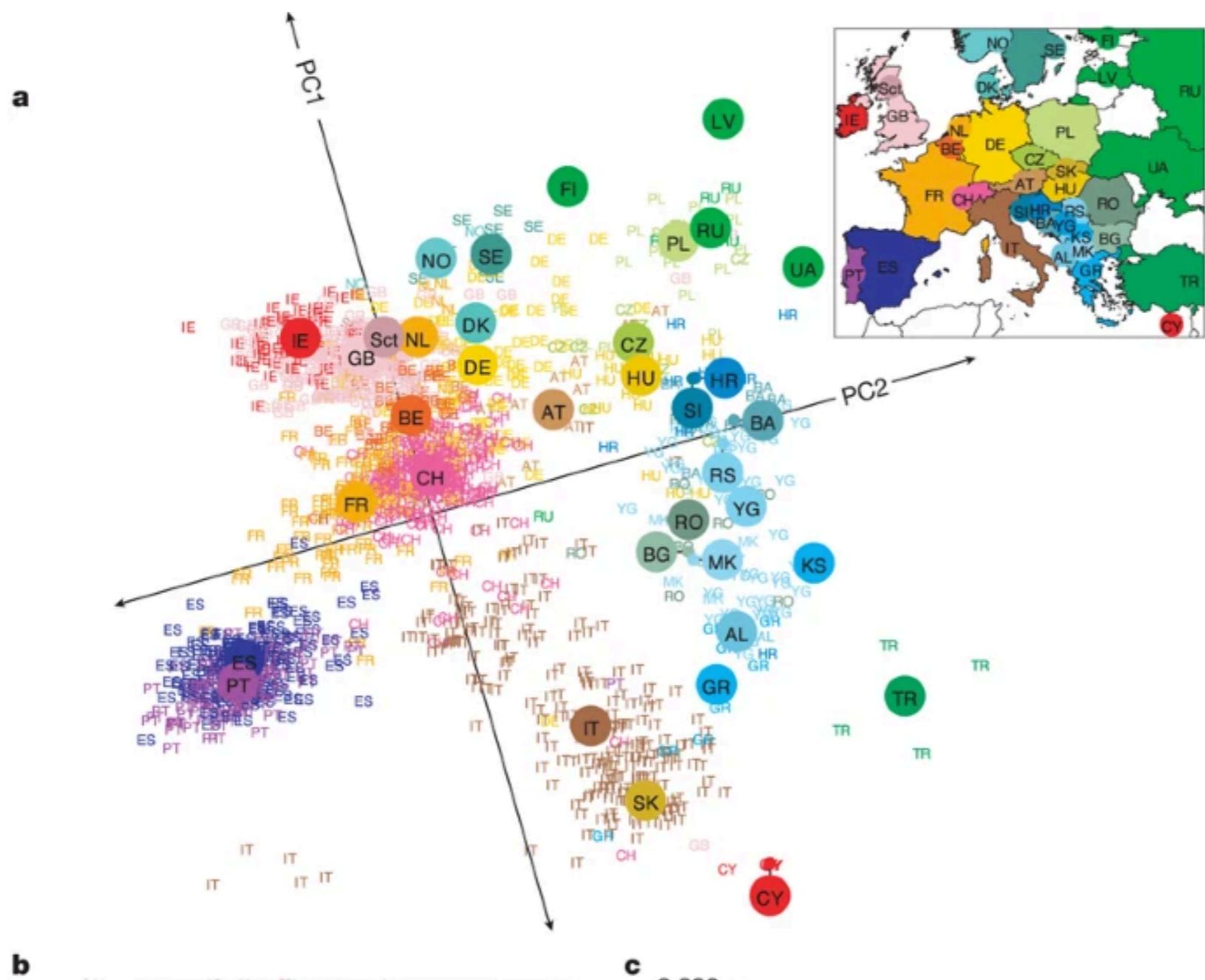
Genes mirror geography within Europe

PCA

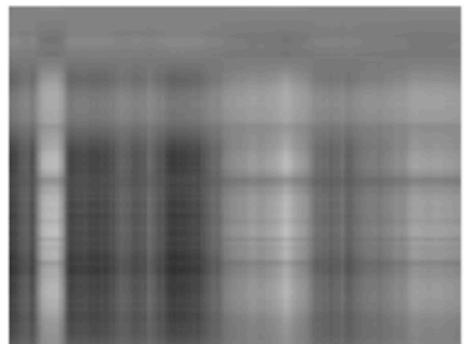
John Novembre [Toby Johnson](#), [Katarzyna Bryc](#), [Zoltán Katalik](#), [Adam R. Boyko](#), [Adam Auton](#), [Indap](#), [Karen S. King](#), [Sven Bergmann](#), [Matthew R. Nelson](#), [Matthew Stephens](#) & [Carlos D. Bustamante](#)

[Nature](#) **456**, 98–101 (2008) | [Cite this article](#)

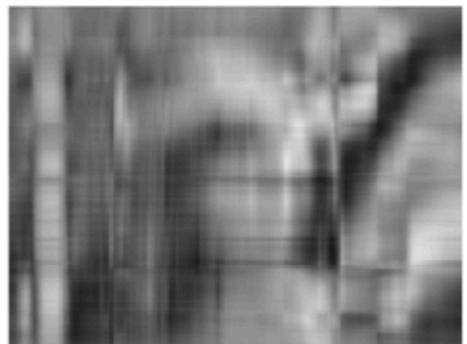
32k Accesses | **810** Citations | **336** Altmetric | [Metrics](#)



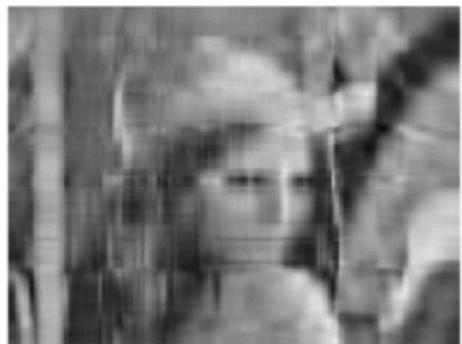
PCA with natural images



(a) 1 principal component



(b) 5 principal component



(c) 9 principal component



(d) 13 principal component



(e) 17 principal component



(f) 21 principal component



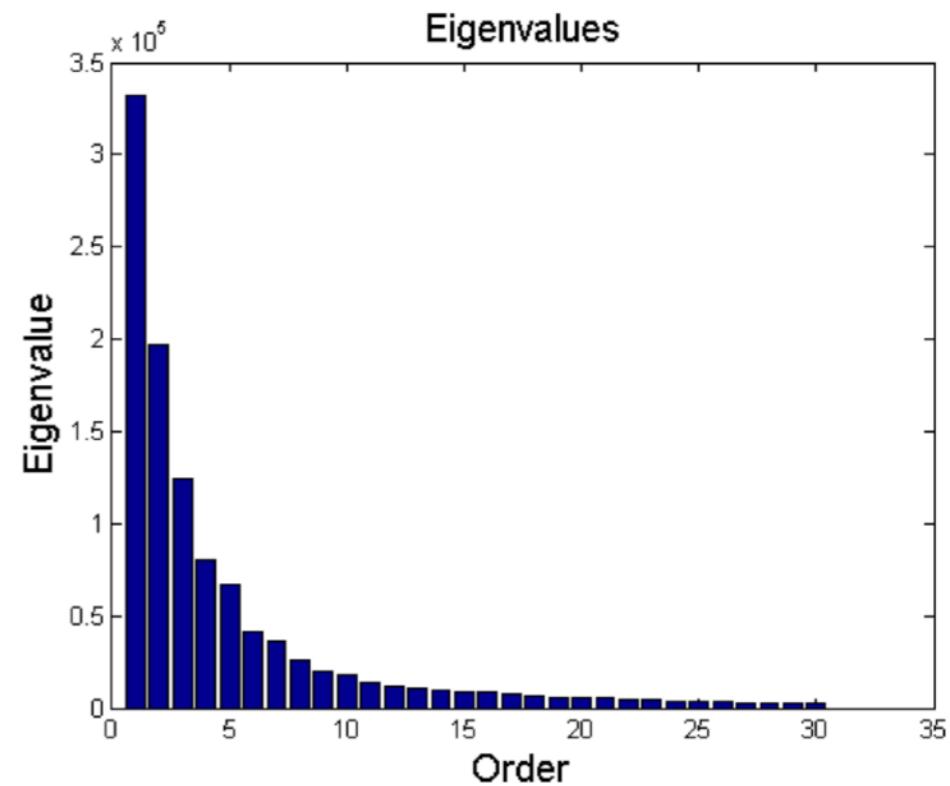
(g) 25 principal component



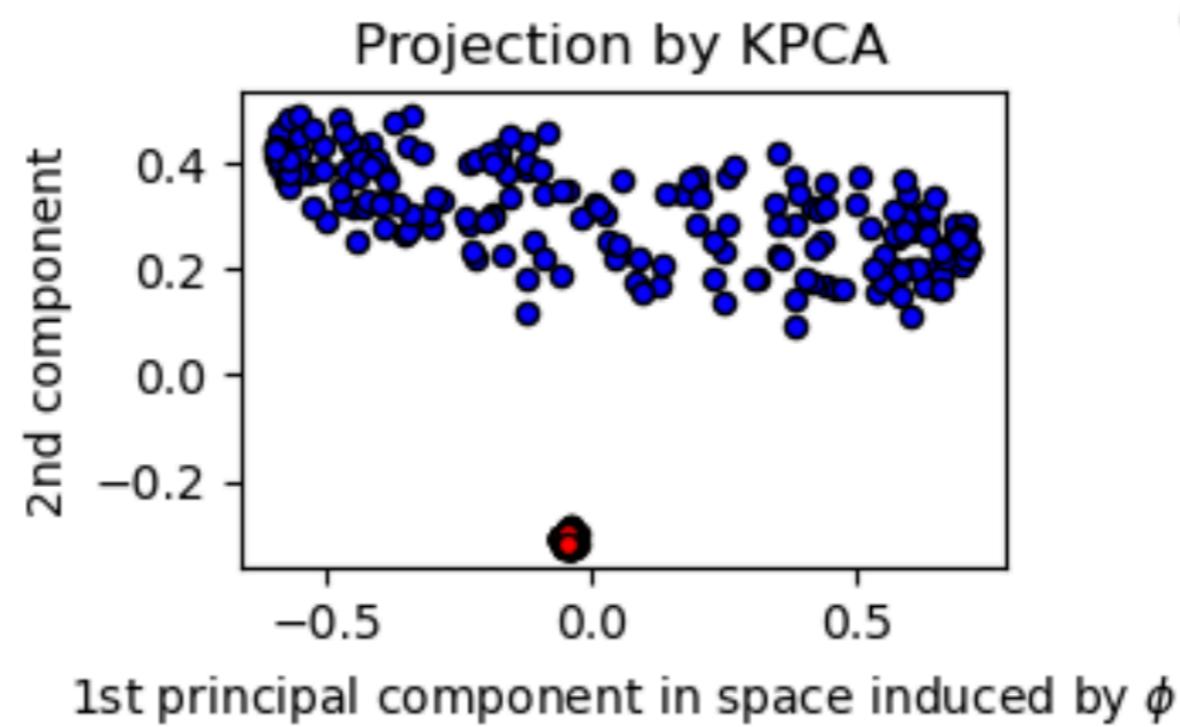
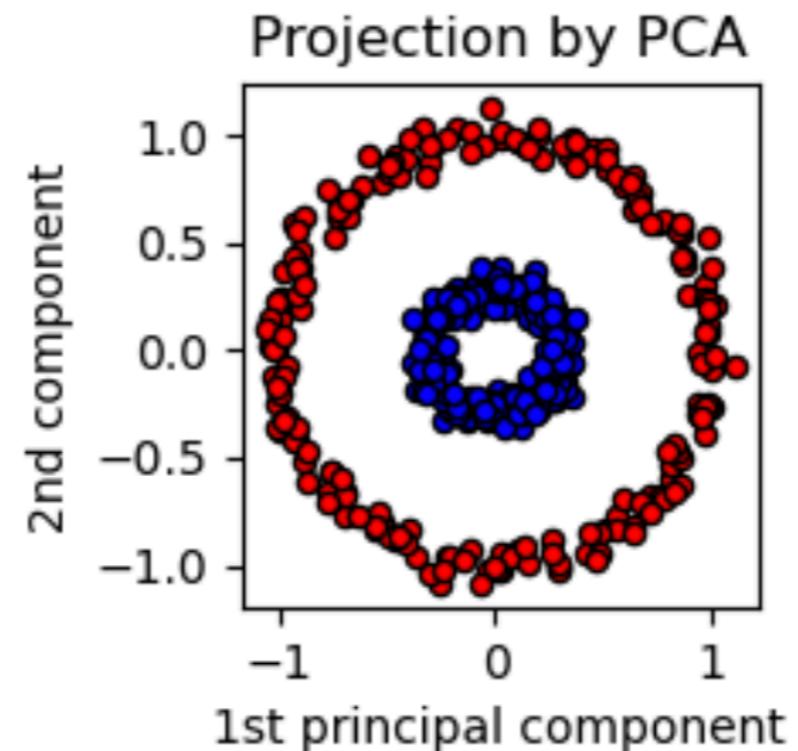
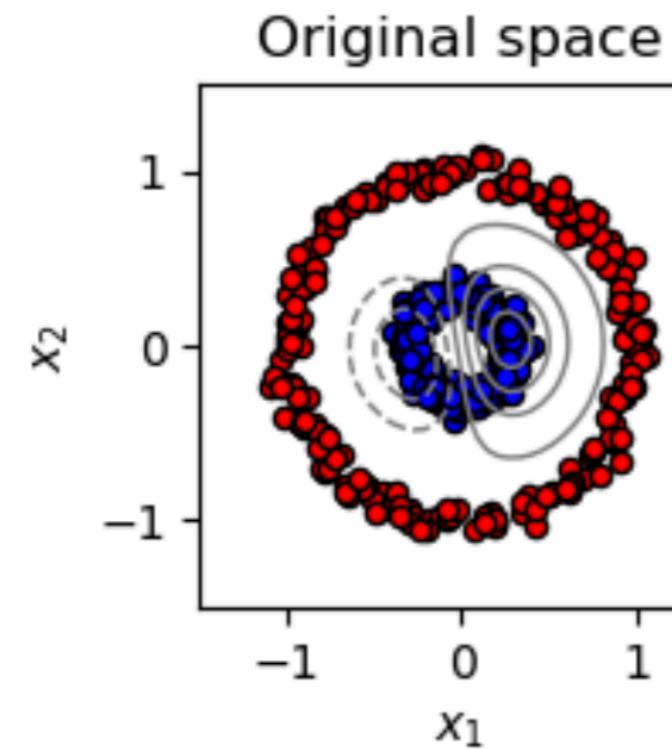
(h) 29 principal component



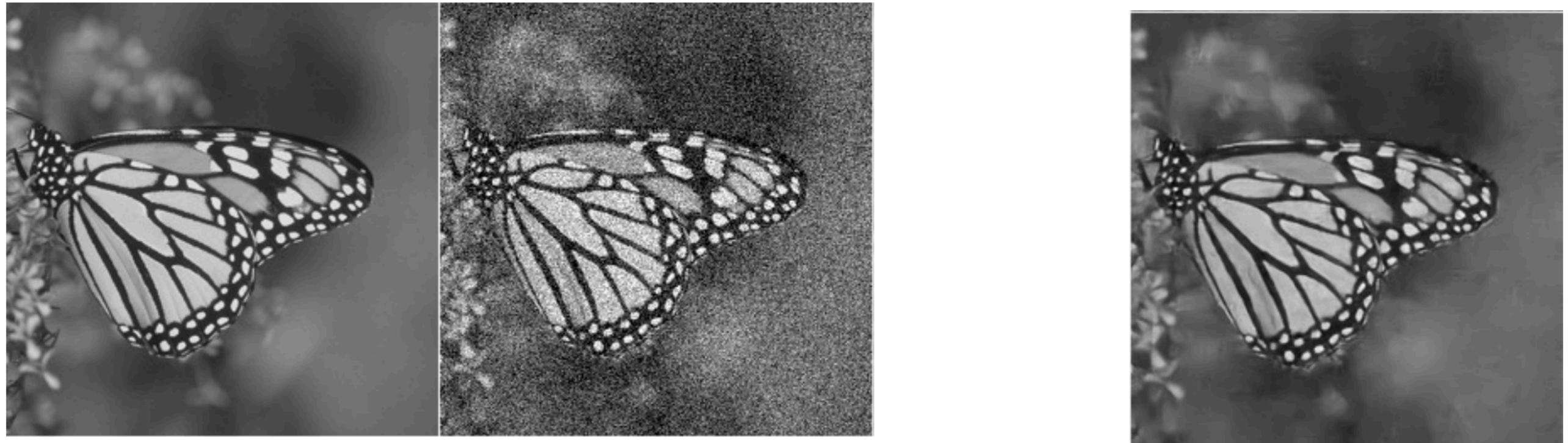
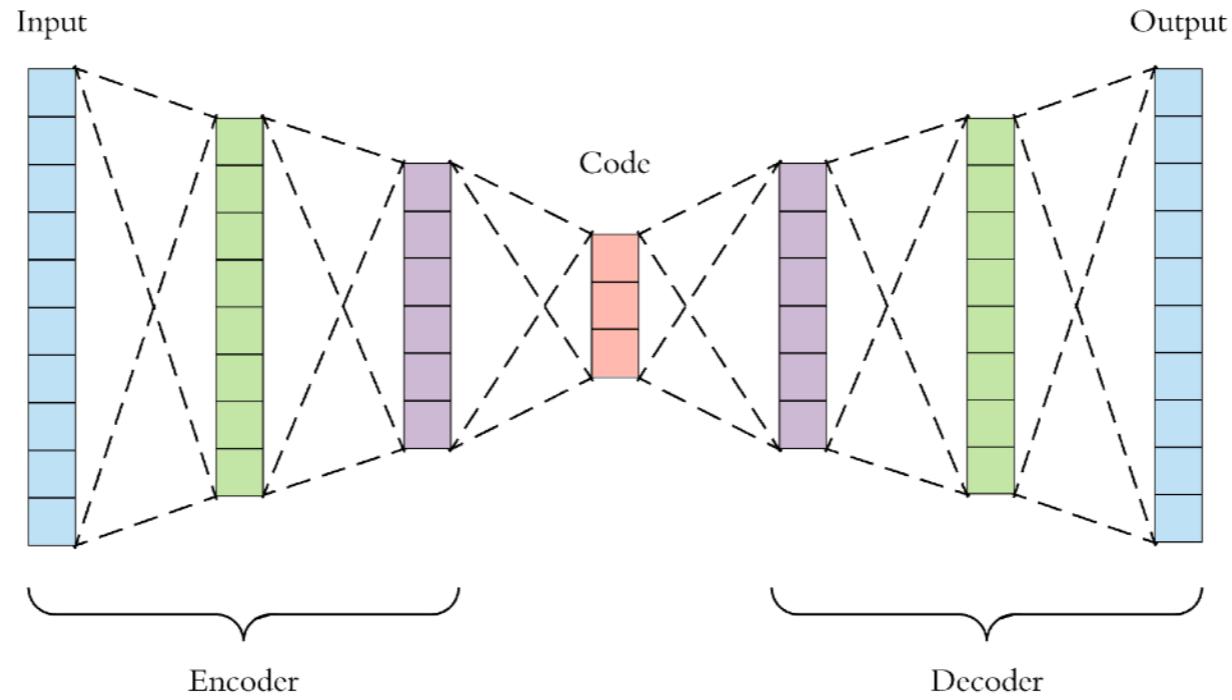
Figure 5. Original greyscale image.



KERNEL PCA vs PCA



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