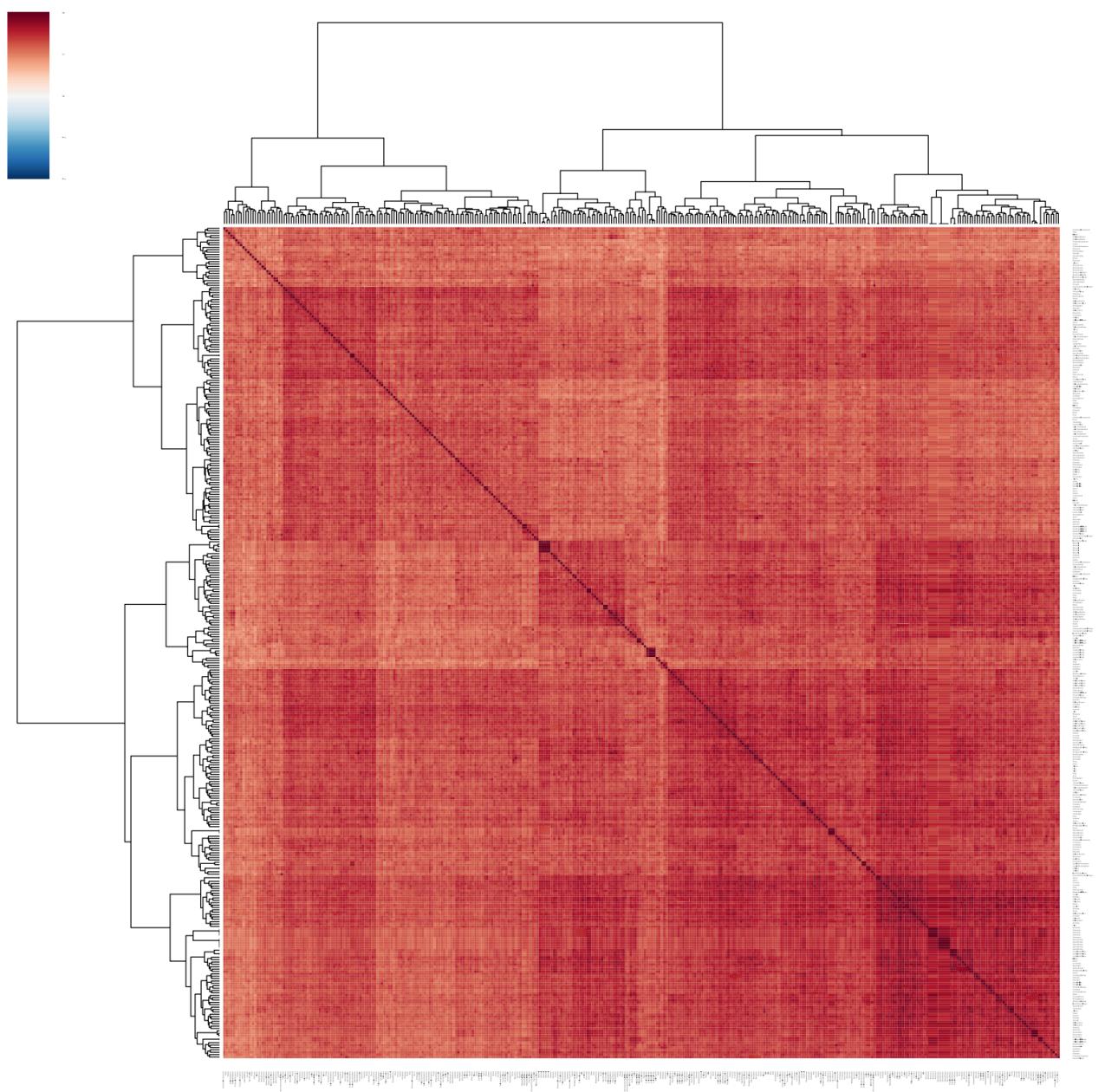


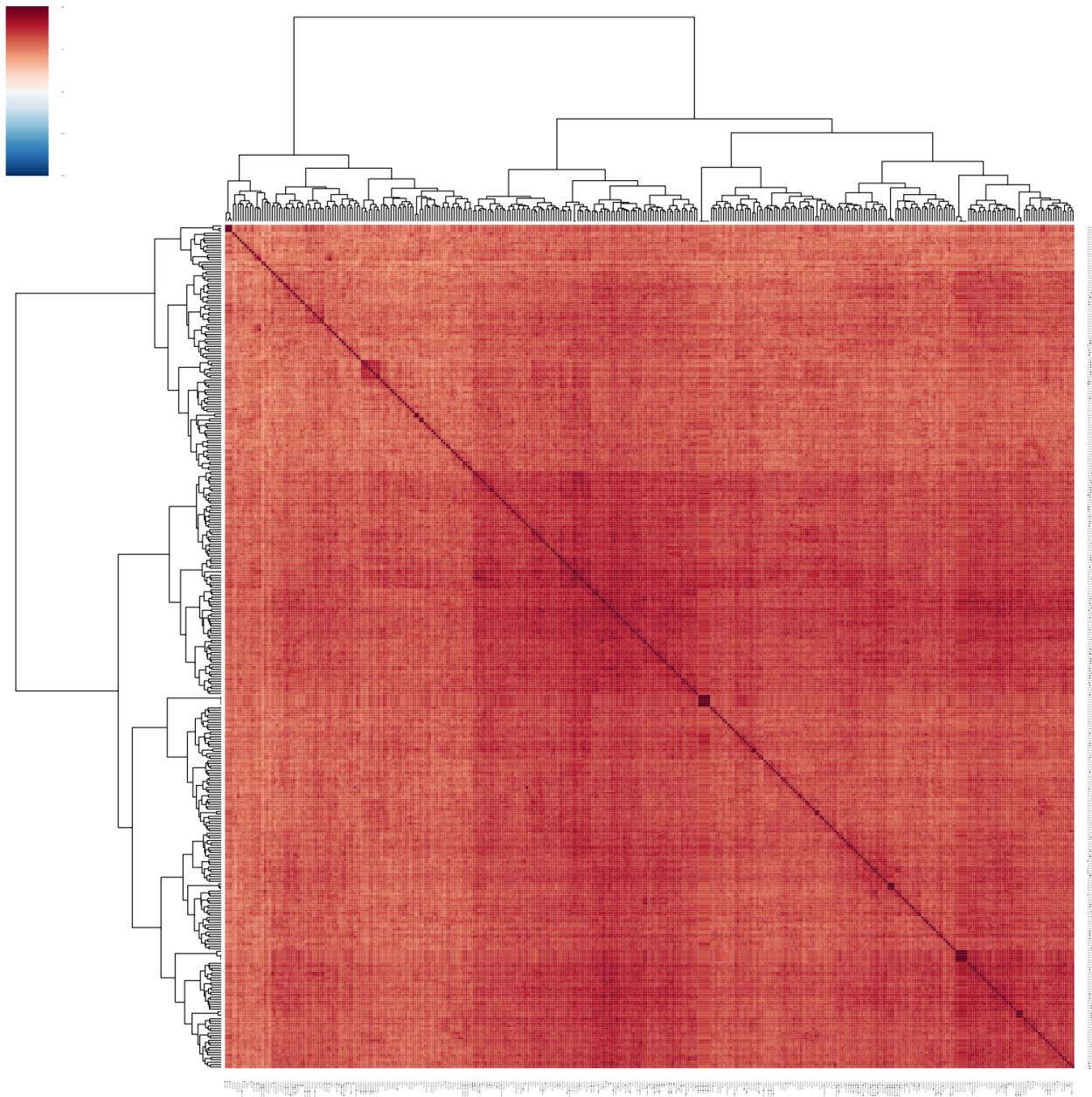
high prototypical sentences **random (between 8 and 14 words)** conv1:

RSA_ward_clustermap_conv1_random4.eps



high prototypical sentences **14 words** conv1:

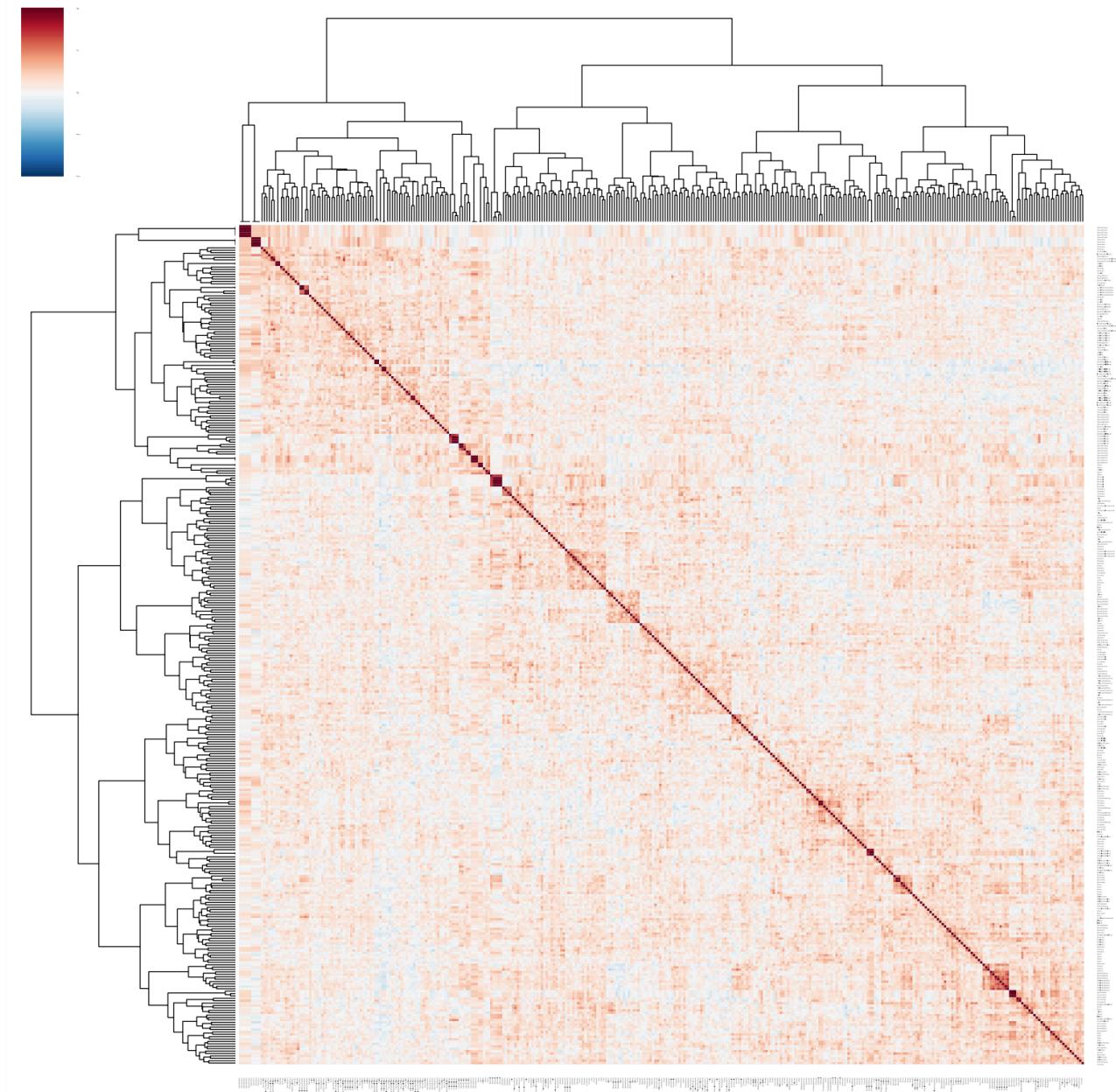
RSA_ward_clustermap_conv1_14words4.eps



So you get the same kind of high correlations. This is probably due to all the zeros. So let's replace zeros with NaNs and repeat the two:

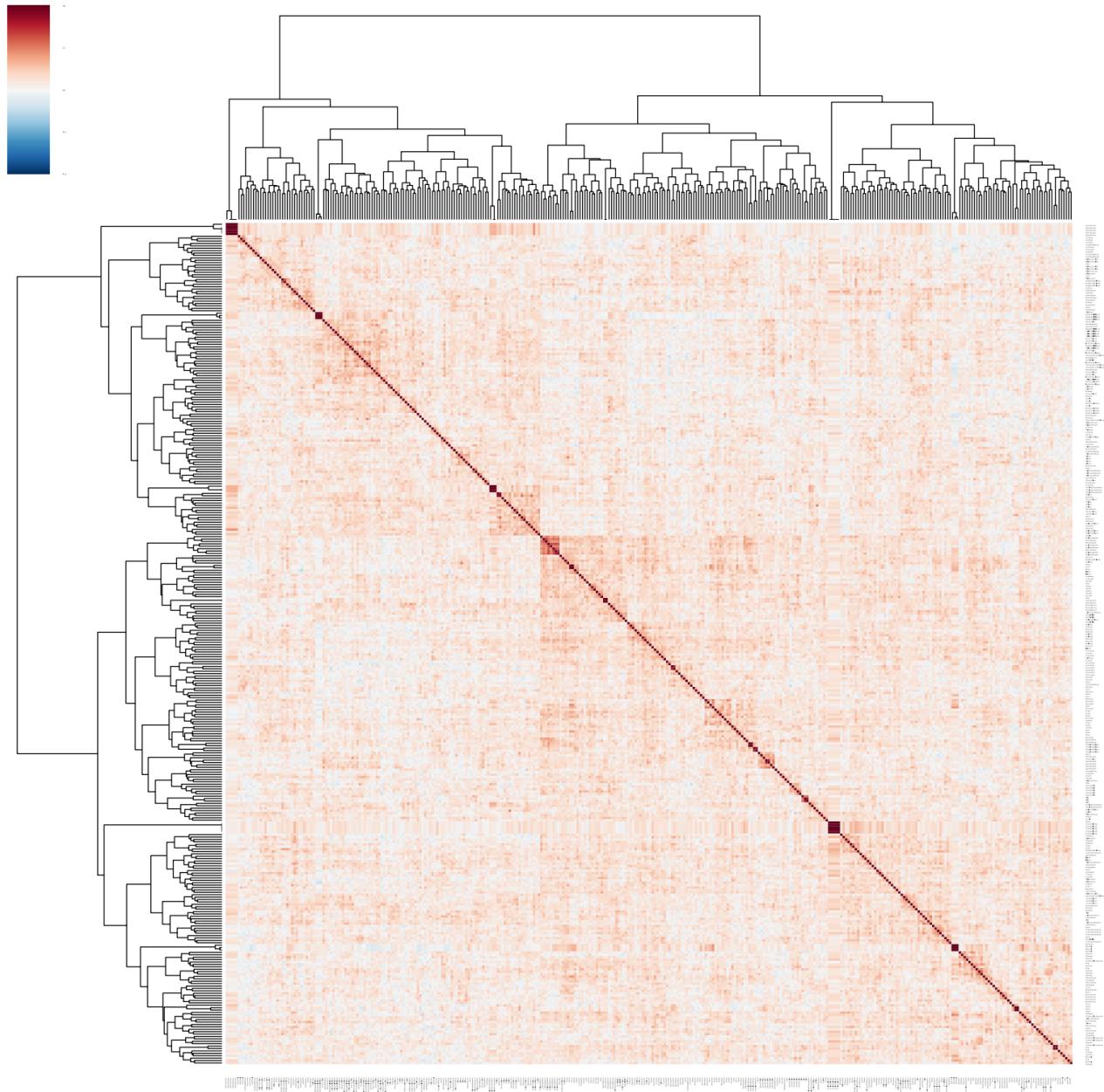
Random (8-14 words per sentence), conv1:

RSA_ward_clustermap_conv1_random4_withNaNs.eps



14 words per sentence, conv1 with NaNs:

RSA_ward_clustermap_conv1_14sentences4_withNaNs.eps



Look at pool layers as well. We don't have to use conv layers. Pool2 are also pretty disimilar than the final layer

	conv1	pool1	conv2	pool2	dense_final
conv1	1.000000	0.802701	0.738740	0.565794	0.110971
pool1	0.802701	1.000000	0.842811	0.760472	0.307815
conv2	0.738740	0.842811	1.000000	0.904517	0.504323
pool2	0.565794	0.760472	0.904517	1.000000	0.599460
dense_final	0.110971	0.307815	0.504323	0.599460	1.000000

So we could use:

Layer1= conv1/pool1

Layer2=conv2/pool2

Layer3=dense_final