Supplementary information

Figure S1. Model heatmaps indicating the mutual Mahalanobis distance of fruit-SALAD images. The matrix cells correspond to the mean of all 10,000 distance pairs of 100 by 100 instances of fruit-SALAD images. Below the diagonal: sorted by style first and fruit category second. Above the diagonal: sorted by fruit category first and style second. The color indicates the pairwise Mahalanobis distance of image embedding vectors obtained from the respective model or algorithm, from low to high (blue to yellow) while low values indicate higher similarity. The figure construction is comprehensive as the matrices are symmetric; diagonal cells can be left out.

labels.csv

1 CSV file

index	category	style
0	blueberries	Crayon
1	fig	Watercolor
2	strawberry	Comic
3	apple	Pixel
4	orange	Patch
5	pineapple	Cubic
6	bananas	Oilio
7	pear	Glamour
8	avocado	Lomo
9	kiwi	Pile

fruit-SALAD_10k.zip

10,000 PNG images

```
0_0_0.png
0_0_1.png
0_0_2.png
0_0_3.png
0_0_4.png
...
9_9_99.png
9_9_98.png
9_9_97.png
9_9_96.png
9_9_95.png
```

{fruit}_{style}_{instance}.png

8_1_42.png

grid_overviews.zip

100 PNG images

```
fruit-SALAD_10k_overview_instance_0.png
fruit-SALAD_10k_overview_instance_1.png
fruit-SALAD_10k_overview_instance_2.png
fruit-SALAD_10k_overview_instance_3.png
fruit-SALAD_10k_overview_instance_4.png
...
fruit-SALAD_10k_overview_instance_99.png
fruit-SALAD_10k_overview_instance_96.png
fruit-SALAD_10k_overview_instance_97.png
fruit-SALAD_10k_overview_instance_98.png
fruit-SALAD_10k_overview_instance_95.png
```
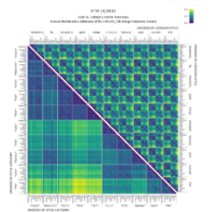
... overview_instance_0.png

embeddings.zip

23 CSV files

```
ViT-H-14_IN21k_embeddings.csv
ViT-B-32_IN21k_embeddings.csv
ViT-B-16_IN21k_embeddings.csv
ConvNeXt-v2_L400M_embeddings.csv
ConvNeXt-B_L400M_embeddings.csv
...
ResNet50_IN1k_embeddings.csv
CompressionEnsembles_embeddings.csv
style_blind_embeddings.csv
balanced_embeddings.csv
category_blind_embeddings.csv
```

CompressionEnsembles_embeddings.csv

filename	0	1	2	3
0_0_0.png	3.707607561	-2.8541838	2.985124840	1.395888996 1.374
0_0_1.png	2.515891228	-0.4934546	3.790124426	0.148929663 1.142
0_0_2.png	4.173463944	-1.7372149	0.84768643	2.932538156 1.67
0_0_3.png	3.334215705	-2.0191141	3.932728652	1.152105288 1.933
0_0_4.png	2.211742252	-2.3961612	2.729971861	1.989410973 1.141
0_0_5.png	1.54671637	-2.0916927	4.488375011	0.464400657 1.236
0_0_6.png	0.717070296	1.453777944	2.063513520	2.562178562 1.607
0_0_7.png	1.680328973	-3.1523497	4.140147399	1.820054710 1.053
0_0_8.png	4.794250553	-4.2687596	2.847775538	1.294601042 1.202
0_0_9.png	4.359734810	-0.8203239	3.991541053	1.733776305 1.870
0_0_10.png	0.354105020	0.492203002	1.504109949	3.347326206 1.717
0_0_11.png	3.351532047	-1.1409962	3.796410886	0.67171099 1.337
0_0_12.png	4.204448184	-2.4030128	2.087165727	1.810314489 1.075

model_heatmaps.zip

23 PNG images

```
ViT-H-14_IN21k_heatmaps.png
ViT-B-32_IN21k_heatmaps.png
ViT-B-16_IN21k_heatmaps.png
ConvNeXt-v2_L400M_heatmaps.png
ConvNeXt-B_L400M_heatmaps.png
...
ResNet50_IN1k_heatmaps.png
CompressionEnsembles_heatmaps.png
style_blind_heatmaps.png
balanced_heatmaps.png
category_blind_heatmaps.png
```

ViT-H-14_IN21k_heatmaps.png

model_vectors.csv

1 CSV file

	0	1	2	3	4
VGG19_IN1k	1753.89842	2080.71068	1499.59994	1162.52054	2110.33636
CLIP-ViT-B-16_L2B	8.82909256	8.13866408	16.1060934	15.6850466	14.5052707
Xception_IN1k	20.5332838	24.1250242	28.272172	19.9018024	27.6571603
GIF_compression	0.00322877	0.00070931	0.00105962	0.00557996	0.00130051
CompressionEnsembles	22.2836091	19.6727463	44.3649056	47.5591873	33.0290407
ResNet50_IN1k	151.38967	170.556289	228.383935	160.425135	256.001592
CLIP-ViT-B-32_L2B	5.83531078	6.28749874	10.4301575	9.72013873	9.90165038
CLIP-ViT-H-14_L2B	32.8475356	27.8890448	44.6939981	50.3275312	48.9684598
ViT-B-16_IN21k	1.62396133	1.45608247	1.76998794	1.65850408	1.71587866
balanced	0.44723596	0.44723596	0.44723596	0.44723596	0.44723596
ViT-H-14_IN21k	0.06629886	0.06386201	0.08290596	0.09052817	0.14463374
CLIP-RN101_OA	0.22205684	0.30681895	0.64115187	0.29889233	0.29555917
ConvNeXt-B_L400M	18.3522484	17.5842788	24.8256763	23.2734645	21.8083638
style_blind	0	0	0	0	0
...					

prompts.zip

10 CSV files

```
0.csv
1.csv
2.csv
3.csv
4.csv
5.csv
6.csv
7.csv
8.csv
9.csv
```

0.csv

a pile of few blueberries, comic book illustration
comic book illustration of a fig, strong drop shape
comic book illustration of a strawberry
comic book illustration of a gala apple
comic book illustration of a cut orange slice with clear segments
comic book illustration of a pineapple
comic book illustration of bananas
comic book illustration of a yellowish pear
comic book illustration of a cut avocado
comic book illustration of a cut kiwi, strong kiwi shape

style_references.zip

10 PNG images

```
0.png
1.png
2.png
3.png
4.png
5.png
6.png
7.png
8.png
9.png
```

0.png

Figure S2. Overview of all dataset repository files.