







Supplemental Material for FontCLIP: A Semantic Typography Visual-Language Model for Multilingual Font Applications

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1. Statistics for Correlation Experiments

We provide the detailed statistics of the correlation experiments for *in-domain* attributes in Table 1 and *out-of-domain* attributes in Table 2.

attribute name	CLIP	FontCLIP (w/o CDP)	FontCLIP
"angular"	0.102	0.765	0.685
"artistic"	0.537	0.912	0.847
"attention-grabbing"	0.060	0.851	0.873
"attractive"	0.015	0.784	0.819
"bad"	-0.066	0.655	0.598
"boring"	-0.276	0.850	0.860
"calm"	-0.091	0.806	0.830
"capitals"	0.343	0.229	0.579
"charming"	0.432	0.649	0.565
"clumsy"	0.318	0.769	0.748
"complex"	-0.048	0.809	0.791
"cursive"	0.396	0.629	0.519
"delicate"	0.489	0.882	0.828
"disorderly"	0.239	0.773	0.751
"display"	0.301	0.723	0.579
"dramatic"	0.504	0.887	0.853
"formal"	-0.198	0.500	0.608
"fresh"	-0.110	0.259	0.316
"friendly"	0.137	0.674	0.647
"gentle"	0.376	0.565	0.584
"graceful"	0.341	0.723	0.827
"happy"	0.238	0.834	0.845
"italic"	0.410	0.826	0.828
"legible"	-0.449	0.396	0.536
"modern"	0.18	0.849	0.843
"monospace"	0.538	0.410	0.439
"playful"	0.375	0.862	0.850
"pretentious"	0.337	0.766	0.875
"sharp"	0.159	0.670	0.632
"serif"	-0.046	0.807	0.711
"sloppy"	0.137	0.619	0.684
"soft"	0.190	0.848	0.861
"strong"	0.150	0.699	0.855
"technical"	-0.180	0.621	0.628
"thin"	0.147	0.955	0.911
"warm"	0.047	0.498	0.847
"wide"	-0.13	0.683	0.672
mean	0.159	0.704	0.723
std	0.242	0.172	0.143

Table 1: The detailed correlation results for *in-domain* attributes experiment of CLIP, FontCLIP trained without using compound descriptive prompts (CDP), and FontCLIP trained with CDP (Ours).

attribute name	CLIP	FontCLIP (w/o CDP)	FontCLIP
"angular"	0.102	-0.173	0.350
"artistic"	0.536	0.764	0.874
"attention-grabbing"	0.060	0.907	0.868
"attractive"	0.015	0.445	0.383
"bad"	-0.066	0.610	0.480
"boring"	-0.276	-0.110	-0.550
"calm"	-0.091	0.102	0.206
"capitals"	0.343	0.181	0.339
"charming"	0.432	0.905	0.907
"clumsy"	0.318	0.256	0.611
"complex"	-0.048	0.760	0.747
"cursive"	0.396	0.409	0.350
"delicate"	0.489	0.343	0.865
"disorderly"	0.239	0.739	0.607
"display"	0.301	0.476	0.575
"dramatic"	0.503	0.684	0.823
"formal"	-0.198	-0.442	-0.194
"fresh"	-0.110	0.031	0.416
"friendly"	0.137	0.377	0.227
"gentle"	0.376	0.554	0.909
"graceful"	0.341	0.812	0.745
"happy"	0.238	0.561	0.552
"italic"	0.410	0.471	0.661
"legible"	-0.449	-0.701	-0.533
"modern"	0.183	0.125	0.442
"monospace"	0.538	-0.127	0.295
"playful"	0.375	0.761	0.852
"pretentious"	0.337	0.373	0.648
"serif"	-0.046	-0.05	-0.209
"sharp"	0.159	-0.25	-0.188
"sloppy"	0.137	-0.08	-0.191
"soft"	0.190	0.496	0.349
"strong"	0.150	0.175	0.597
"technical"	-0.180	0.628	-0.111
"thin"	0.147	0.393	0.489
"warm"	0.048	0.768	0.779
"wide"	-0.139	-0.221	-0.018
mean	0.159	0.316	0.404
std	0.242	0.389	0.402

Table 2: The detailed correlation results for *out-of-domain* attributes experiment of CLIP, FontCLIP trained without using compound descriptive prompts (CDP), and FontCLIP trained with CDP (Ours).

2. Dual-Modal Multilingual Font Retrieval

2.1. Statistics for Chinese Character Pairwise Attribute Prediction

We provide the detailed statistics of the font retrieval task for Chinese characters in Table 3. The results presented in Table 3(b) clearly demonstrate that FontCLIP achieves higher accuracy with lower standard deviation. This indicates that FontCLIP consistently performs better in generalizing to *out-of-domain* attributes.

attribute name	CLIP	FontCLIP
“thin”	71.33%	78.87%
“calm”	61.44%	50.98%
“sloppy”	41.83%	52.29%
“sharp”	64.71%	69.93%
“technical”	35.29%	68.62%
mean	54.92%	64.14%
std	15.52%	12.08%

(a): Chinese characters with *in-domain* attributes

attribute name	CLIP	FontCLIP
“traditional”	49.02%	62.74%
“Japanese style”	33.33%	63.40%
“robust”	44.44%	67.32%
mean	42.26%	64.48%
std	8.07%	2.48%

(b): Chinese characters with *out-of-domain* attributes

Table 3: The accuracy of the pairwise attribute prediction task for Chinese characters with *in-domain* and *out-of-domain* attributes.

2.2. Dual-Modal Font Retrieval and User Interface

To perform multi-modal font retrieval, users can use our user interface as shown in Figure 1. This interface allows users to provide reference font images, specify desired attributes, and adjust the style weight w using a slider.

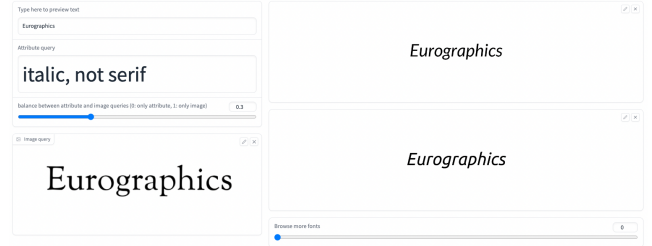


Figure 1: The user interface for our multi-modal font retrieval.