Supplementary Material A: Results Tables

Feature	ϵ^2	Interpretation	p (FDR)	Sig.
Symbolic (MIDI)				
Unique instruments	0.296	Large	< 0.001	Yes
Mean polyphony	0.252	Large	< 0.001	Yes
Number of tracks	0.250	Large	< 0.001	Yes
Duration	0.137	Medium	< 0.001	Yes
Pitch range	0.120	Medium	< 0.001	Yes
Velocity entropy	0.113	Medium	< 0.001	Yes
Note count	0.105	Medium	< 0.001	Yes
Velocity std	0.075	Medium	< 0.001	Yes
Note density	0.050	Small	< 0.001	Yes
Velocity mean	0.037	Small	< 0.001	Yes
IOI std	0.032	Small	< 0.001	Yes
Mean pitch	0.025	Small	< 0.001	Yes
Pitch entropy	0.016	Small	< 0.001	Yes
Mean tempo	0.010	Negligible	< 0.001	Yes
Audio (Original recordings)				
MFCC 2	0.377	Large	< 0.001	Yes
Spectral bandwidth (mean)	0.353	Large	< 0.001	Yes
Spectral centroid (mean)	0.271	Large	< 0.001	Yes
MFCC 7	0.224	Large	< 0.001	Yes
MFCC 9	0.223	Large	< 0.001	Yes
MFCC 8	0.166	Large	< 0.001	Yes
Spectral bandwidth (std)	0.149	Large	< 0.001	Yes
MFCC 5	0.144	Large	< 0.001	Yes
MFCC 6	0.138	Medium	< 0.001	Yes
MFCC 11	0.132	Medium	< 0.001	Yes
MFCC 10	0.123	Medium	< 0.001	Yes
MFCC 1	0.101	Medium	< 0.001	Yes
RMS energy (std)	0.095	Medium	< 0.001	Yes
MFCC 4	0.083	Medium	< 0.001	Yes
MFCC 12	0.076	Medium	< 0.001	Yes
Duration	0.066	Medium	< 0.001	Yes
Zero-crossing rate (mean)	0.062	Medium	< 0.001	Yes
MFCC 3	0.061	Medium	< 0.001	Yes
RMS energy (mean)	0.059	Small	< 0.001	Yes
Spectral centroid (std)	0.058	Small	< 0.001	Yes
MFCC 13	0.047	Small	< 0.001	Yes
Visual (Box art)				
Aspect ratio	0.400	Large	< 0.001	Yes
Mean brightness	0.131	Medium	< 0.001	Yes
Colourfulness	0.123	Medium	< 0.001	Yes
Image entropy	0.114	Medium	< 0.001	Yes
Std brightness	0.109	Medium	< 0.001	Yes
Edge density	0.107	Medium	< 0.001	Yes
Mean saturation	0.105	Medium	< 0.001	Yes
Contrast	0.084	Medium	< 0.001	Yes
Std saturation	0.056	Small	< 0.001	Yes
Std hue	0.038	Small	< 0.001	Yes
Mean hue	0.015	Small	0.007	Yes

Table S1: Console generation effects across symbolic, audio, and visual features. Effect size is reported as epsilon-squared ϵ^2. All p-values are FDR-adjusted.

Feature	ρ	Interpretation	p (FDR)	Sig.
Symbolic (MIDI)				
Unique instruments	0.372	Medium	< 0.001	Yes
Number of tracks	0.313	Medium	< 0.001	Yes
Mean polyphony	0.284	Small	< 0.001	Yes
Velocity entropy	0.271	Small	< 0.001	Yes
Duration	0.254	Small	< 0.001	Yes
Velocity std	0.225	Small	< 0.001	Yes
Pitch range	0.218	Small	< 0.001	Yes
Note count	0.206	Small	< 0.001	Yes
Velocity mean	-0.137	Small	< 0.001	Yes
Pitch entropy	0.084	Negligible	< 0.001	Yes
Note density	0.078	Negligible	< 0.001	Yes
Mean tempo	-0.032	Negligible	0.009	Yes
IOI std	0.029	Negligible	0.017	Yes
Mean pitch	-0.012	Negligible	0.304	No
Audio (Original recordings)				
MFCC 2	0.254	Small	< 0.001	Yes
Spectral bandwidth (mean)	-0.185	Small	< 0.001	Yes
Spectral centroid (mean)	-0.164	Small	< 0.001	Yes
MFCC 9	0.151	Small	< 0.001	Yes
RMS energy (std)	0.150	Small	< 0.001	Yes
MFCC 5	0.138	Small	< 0.001	Yes
MFCC 8	-0.126	Small	< 0.001	Yes
MFCC 4	-0.123	Small	< 0.001	Yes
MFCC 10	-0.115	Small	< 0.001	Yes
MFCC 1	0.112	Small	< 0.001	Yes
MFCC 6	-0.112	Small	< 0.001	Yes
Spectral bandwidth (std)	0.105	Small	< 0.001	Yes
MFCC 11	0.104	Small	< 0.001	Yes
RMS energy (mean)	0.099	Negligible	< 0.001	Yes
MFCC 7	0.098	Negligible	< 0.001	Yes
Duration	0.097	Negligible	< 0.001	Yes
MFCC 3	-0.073	Negligible	< 0.001	Yes
Zero-crossing rate (mean)	0.058	Negligible	< 0.001	Yes
MFCC 12	-0.057	Negligible	< 0.001	Yes
MFCC 13	0.046	Negligible	< 0.001	Yes
Spectral centroid (std)	0.012	Negligible	0.321	No
Visual (Box art)				
Aspect ratio	0.224	Small	< 0.001	Yes
Image entropy	0.188	Small	< 0.001	Yes
Contrast	0.178	Small	< 0.001	Yes
Mean saturation	-0.155	Small	< 0.001	Yes
Colourfulness	-0.153	Small	< 0.001	Yes
Std brightness	0.099	Negligible	< 0.001	Yes
Std saturation	0.046	Negligible	0.123	No
Mean hue	-0.044	Negligible	0.129	No
Edge density	0.021	Negligible	0.489	No
Std hue	-0.020	Negligible	0.489	No
Mean brightness	-0.013	Negligible	0.619	No

Table S2: Temporal trends across symbolic, audio, and visual features. Effect size is reported as Spearman's ρ. All p-values are FDR-adjusted.

Feature	R^2	Interpretation	p (FDR)	Sig.
Symbolic (MIDI)				
Note density	0.090	Small	0.001	Yes
Mean pitch	0.077	Small	0.001	Yes
IOI std	0.047	Small	0.001	Yes
Note count	0.047	Small	0.001	Yes
Unique instruments	0.045	Small	0.001	Yes
Number of tracks	0.039	Small	0.001	Yes
Velocity entropy	0.036	Small	0.001	Yes
Pitch range	0.032	Small	0.001	Yes
Pitch entropy	0.030	Small	0.001	Yes
Duration	0.030	Small	0.001	Yes
Mean tempo	0.027	Small	0.001	Yes
Mean polyphony	0.022	Small	0.002	Yes
Velocity mean	0.021	Small	0.001	Yes
Velocity std	0.019	Negligible	0.001	Yes
Audio (Original recordings)				
Spectral bandwidth (mean)	0.125	Small	< 0.001	Yes
Spectral centroid (mean)	0.122	Small	< 0.001	Yes
MFCC 2	0.107	Small	< 0.001	Yes
MFCC 1	0.095	Small	< 0.001	Yes
MFCC 8	0.069	Small	< 0.001	Yes
MFCC 4	0.065	Small	< 0.001	Yes
MFCC 6	0.065	Small	< 0.001	Yes
MFCC 10	0.062	Small	< 0.001	Yes
Zero-crossing rate (mean)	0.058	Small	< 0.001	Yes
MFCC 12	0.048	Small	< 0.001	Yes
MFCC 5	0.045	Small	< 0.001	Yes
MFCC 7	0.042	Small	< 0.001	Yes
MFCC 9	0.042	Small	< 0.001	Yes
RMS energy (mean)	0.040	Small	< 0.001	Yes
MFCC 3	0.033	Small	< 0.001	Yes
MFCC 11	0.032	Small	< 0.001	Yes
MFCC 13	0.032	Small	< 0.001	Yes
Spectral centroid (std)	0.030	Small	< 0.001	Yes
Spectral bandwidth (std)	0.026	Small	< 0.001	Yes
Duration	0.022	Small	< 0.001	Yes
RMS energy (std)	0.017	Negligible	< 0.001	Yes
Visual (Box art)				
Aspect ratio	0.128	Small	0.001	Yes
Colourfulness	0.124	Small	0.001	Yes
Mean brightness	0.110	Small	0.001	Yes
Edge density	0.096	Small	0.001	Yes
Mean saturation	0.078	Small	0.001	Yes
Std saturation	0.057	Small	0.001	Yes
Contrast	0.043	Small	0.001	Yes
Mean hue	0.039	Small	0.001	Yes
Image entropy	0.033	Small	0.001	Yes
Std brightness	0.028	Small	0.003	Yes
Std hue	0.020	Negligible	0.086	No

Table S3: Genre effects across symbolic, audio, and visual features. Effect size is reported as R^2 from permutation-based linear regression. All p-values are FDR-adjusted.

Feature	δ	Interpretation	p (FDR)	Sig.
Symbolic (MIDI)				
Note density	-0.166	Small	< 0.001	Yes
Note count	-0.155	Small	< 0.001	Yes
Unique instruments	-0.144	Negligible	< 0.001	Yes
Pitch range	-0.126	Negligible	< 0.001	Yes
Number of tracks	-0.124	Negligible	< 0.001	Yes
IOI std	0.116	Negligible	< 0.001	Yes
Mean pitch	0.107	Negligible	< 0.001	Yes
Duration	-0.071	Negligible	< 0.001	Yes
Mean tempo	-0.067	Negligible	< 0.001	Yes
Mean polyphony	-0.063	Negligible	< 0.001	Yes
Velocity std	-0.053	Negligible	< 0.001	Yes
Velocity entropy	-0.046	Negligible	< 0.001	Yes
Pitch entropy	-0.028	Negligible	0.045	Yes
Velocity mean	-0.003	Negligible	0.837	No
Audio (Original recordings)				
MFCC 1	-0.122	Negligible	< 0.001	Yes
Zero-crossing rate (mean)	-0.115	Negligible	< 0.001	Yes
MFCC 11	-0.095	Negligible	< 0.001	Yes
MFCC 9	-0.085	Negligible	< 0.001	Yes
MFCC 12	-0.073	Negligible	< 0.001	Yes
RMS energy (mean)	-0.070	Negligible	< 0.001	Yes
MFCC 7	-0.054	Negligible	< 0.001	Yes
MFCC 13	-0.050	Negligible	< 0.001	Yes
RMS energy (std)	-0.047	Negligible	0.002	Yes
MFCC 10	-0.045	Negligible	0.003	Yes
MFCC 3	0.044	Negligible	0.003	Yes
Spectral centroid (std)	-0.040	Negligible	0.006	Yes
Spectral centroid (mean)	-0.040	Negligible	0.006	Yes
MFCC 5	-0.040	Negligible	0.006	Yes
MFCC 2	-0.025	Negligible	0.094	No
Duration	-0.024	Negligible	0.112	No
Spectral bandwidth (std)	-0.023	Negligible	0.122	No
Spectral bandwidth (mean)	-0.019	Negligible	0.204	No
MFCC 4	-0.018	Negligible	0.204	No
MFCC 8	-0.013	Negligible	0.384	No
MFCC 6	0.011	Negligible	0.447	No
Visual (Box art)				
Std hue	-0.113	Negligible	0.002	Yes
Image entropy	-0.099	Negligible	0.006	Yes
Edge density	-0.095	Negligible	0.006	Yes
Colourfulness	-0.062	Negligible	0.114	No
Aspect ratio	-0.032	Negligible	0.529	No
Mean hue	-0.029	Negligible	0.529	No
Mean brightness	-0.029	Negligible	0.529	No
Mean saturation	0.022	Negligible	0.633	No
Contrast	0.013	Negligible	0.796	No
Std brightness	0.011	Negligible	0.796	No
Std saturation	-0.002	Negligible	0.955	No

Table S4: Game mode effects (single-player vs mixed-player). Effect size is reported as Cliff's δ. All p-values are FDR-adjusted.