Supplemental Material

The shape of shared attention: investigating the influence of environmental variation on the compositional structure of traditional decorative artworks.

APPENDIX A: Individual Artworks and Associated H and C values

Periods in accession numbers have been changed to dashes (-) or, in some cases, lowercase Xs (x). Museum accession numbers may change. If a piece is not showing up on search, this may be a problem with the accession number or the museum search engine itself. Try searching by object type and filtering by culture and/or material. Culture labels or other information may change, as well. Some objects may be mislabeled on museum or other institutional websites. If you have any questions about the dataset, please contact the corresponding author directly.

Table S1. Individual Artworks and Associated H and C values

Museum	Accession	Culture	Object Type	H	C
up	86-16-5	Aymara	shawl	0.740884919	0.400087227
dam	2012-335	Aymara	mantle	0.868083499	0.280823763
up	83-16-4	Aymara	overskirt	0.700485325	0.408121295
up	86-16-7	Aymara	skirt	0.791752313	0.36279486
up	83-16-2	Aymara	shawl	0.750124487	0.383665625
up	83-16-6	Aymara	shawl	0.762577837	0.380746821
up	80-15-2	Aymara	cloth	0.733943158	0.405381198
stlmus	1101982	Aymara	overskirt	0.84087508	0.300429787
up	80x03x01	Aymara	overskirt	0.640883343	0.438718392
up	83-16-7	Aymara	overskirt	0.787746128	0.342630149
up	86-16-2	Aymara	shawl	0.579049681	0.470869875
tmc	T86-0042	Bambara	mudcloth	0.839789012	0.316161127
tmc	T77-0006	Bambara	mudcloth	0.748177476	0.382231294
tmc	T77-0005	Bambara	wrapper	0.722588717	0.394328658
tmc	T77-0007	Bambara	mudcloth	0.954514883	0.180180505
tmc	T95-0110	Bambara	mudcloth	0.804178521	0.348099681
nmnh	EJ10126	Bambara	wrapper	0.816905303	0.319871272
tmc	T03-6-2	Bambara	babycarrier	0.506060045	0.517072656
nmnh	EJ10122	Bambara	wrapper	0.913678684	0.230659738
tmc	T02-44-40	Bambara	mudcloth	0.913255988	0.239973591
tmc	T84-0038	Bambara	mudcloth	0.885617968	0.263669101
tmc	T77-0004	Bambara	mudcloth	0.875490213	0.27759623

tmc	T87-0234	Bambara	mudcloth	0.942189751	0.193404201
nmnh	EJ10125	Bambara	wrapper	0.927336762	0.21666625
dam	1948-144	Dak-Lak	robe	0.625731223	0.445618734
up	NA5483	Dak-Lak	buffaloRobe	0.80655436	0.322995799
qb	71-1931-5-27	Dak-Lak	robe	0.738608642	0.371688229
up	NA3639	Dak-Lak	robe	0.510368193	0.5109904
up	NA3986	Dak-Lak	robe	0.949297075	0.177331303
up	NA3989	Dak-Lak	robe	0.494084057	0.52649572
dam	1948-144	Dak-Lak	robe	0.551476484	0.499679175
quai-branly	71-1878-32-134	Dak-Lak	robe	0.879553682	0.268307614
up	97-84-1093	Dak-Lak	robe	0.508842116	0.509898387
nelson-atkins	31-125-4R300	Dak-Lak	parfleche	0.914618028	0.236415975
heritage-auctions	LOT-71162-2015	Dak-Lak	woman-robe	0.647794961	0.431888116
up	60-10-1	Fijian	barkcloth	0.955062755	0.17592957
nmnh	e3290	Fijian	barkcloth	0.960264573	0.158357552
nmnh	e3274	Fijian	barkcloth	0.951792228	0.179762232
met	1990-333-9	Fijian	barkcloth-panel	0.943673572	0.185902202
ypm	ANT-144748	Fijian	barkcloth	0.966235074	0.147459713
ypm	ANT-144747	Fijian	barkcloth	0.974697425	0.130393286
ypm	ANT-14990	Fijian	barkcloth	0.986946413	0.096557302
nmnh	e3446-1	Fijian	barkcloth	0.95505879	0.181216642
ypm	ANT-250173	Fijian	tapa-cloth	0.955022523	0.174224053
up	P3307	Fijian	barkcloth	0.977898592	0.123266904
stlmus	43-1999	Fijian	barkcloth	0.880891388	0.26420669
tmc	T91-0133b	Guna	mola	0.822965701	0.320298325
tmc	T2007-46-5	Guna	mola	0.973881175	0.143044511
tmc	T94-0993	Guna	mola	0.94371249	0.188132825
tmc	T81-0052	Guna	mola	0.983450951	0.113216369
tmc	T94-0988	Guna	mola	0.959989109	0.168376684
tmc	T2005-19-3	Guna	mola	0.94472541	0.194100999
tmc	T92-0077	Guna	mola	0.901905307	0.241845972
tmc	T94-0991	Guna	mola	0.975982518	0.134083565
tmc	T2007-46-4	Guna	mola	0.970841675	0.138694309
tmc	T2007-46-2	Guna	mola	0.954151792	0.170084075
tmc	T81-0050	Guna	mola	0.966713989	0.167516347
NMAI	160689	Haida	dance-apron-M	0.469829687	0.528972601
nmnh	E20807	Haida	robe	0.733384927	0.392847325
nmnh	E89198	Haida	button-blanket	0.260286091	0.639346003
met	2011-154-59	Haida	button-blanket	0.639751737	0.433320003
nmnh	E89194	Haida	robe	0.558946048	0.483461617

dam	1951-89	Haida	button-blanket	0.404774792	0.570271232
NMAI	24-7488x000	Haida	shirt	0.855592793	0.28285768
mfab	2015-901	Haida	button-blanket	0.424873793	0.552679447
nmnh	E89191	Haida	belt	0.755097665	0.366701131
nmnh	E129984-0	Haida	dance-tunic	0.843330858	0.293654901
ypm	ANT-3227	Hawaiian	tapa	0.61964257	0.445487304
nmnh	e3486	Hawaiian	barkcloth	0.605113388	0.454593196
ypm	ANT-258598	Hawaiian	tapa	0.582066589	0.502998081
NHB2013-03415	E3485	Hawaiian	tapa	0.681405495	0.408821043
mnz	FE005246	Hawaiian	barkcloth	0.981887721	0.111883249
mnz	FE001475-3	Hawaiian	barkcloth	0.965498266	0.164302127
ypm	ANT-3219	Hawaiian	barkcloth	0.896261238	0.245272816
mnz	FE001475-4	Hawaiian	barkcloth	0.971055147	0.142408601
NHB2013-03421	E3493	Hawaiian	tapa	0.985061271	0.104199464
ypm	ANT-55695	Hawaiian	barkcloth	0.97417297	0.129614913
met	1999-47-163	Iban	cloth	0.860685494	0.284661119
tmc	T94-0546	Iban	skirt	0.987132133	0.098978538
tmc	T94-0509	Iban	cloth	0.827278957	0.327768541
aic	2005-459	Iban	cloth-puakumbu	0.909704889	0.257095711
aic	2002-948	Iban	cloth-puakumbu	0.932544128	0.223970832
tmc	T94-0498	Iban	cloth	0.890586949	0.262481491
tmc	T94-0502	Iban	cloth	0.948863232	0.186446392
aic	2002-952	Iban	cloth-puakumbu	0.93615229	0.210408635
tmc	T94-0500	Iban	cloth	0.961962513	0.171970906
met	2013-1103	Iban	cloth-puasungkit	0.982534315	0.112489723
amnh	702-2726	Iban	cloth	0.818891978	0.346405998
tmc	T94-0503	Iban	cloth	0.914764576	0.243829218
tmc	T90-0180	Iban	cloth	0.951534786	0.182200204
tmc	T94-0505	Iban	cloth	0.929221467	0.23214965
tmc	T94-0514	Iban	cloth	0.942446542	0.203649654
tmc	T84-0166	Javanese	sash	0.99862003	0.032728252
tmc	T90-0431	Javanese	sash	0.992184349	0.078458588
ypm	ANT3492	Javanese	batik	0.95283187	0.179526503
tmc	T94-0571	Javanese	altarcloth	0.74904636	0.366905109
tmc	T84-0153	Javanese	skirt	0.799842162	0.33076773
maas	H8177	Javanese	headcloth	0.934216182	0.206104907
maas	A7966-19	Javanese	ceremonial-sash	0.360607273	0.584735417
up	92-26-1	Javanese	headdress	0.736757921	0.375513582
up	P1459C	Javanese	headdress	0.677952414	0.415345427

met	30-88-2	Javanese	sarong	0.876391147	0.270592382
yaleart	ILE2006-4-370	Javanese	selendang-rimang-sutro	0.961855416	0.157660099
met	1999-522-15	Kuba	prestigepanel	0.96703	0.150553483
met	2001-271-7	Kuba	prestigepanel	0.990054676	0.087224174
tmc	T88-0616	Kuba	pilecloth	0.99540306	0.058462042
met	2001-271-4	Kuba	prestigepanel	0.962035582	0.17440444
mfah	91-1479	Kuba	prestigepanel	0.985855749	0.107814746
maas	2013x18x8x	Kuba	raffia	0.986126651	0.100368048
met	1979-206-114e	Kuba	panel	0.987105872	0.095754549
met	1999-522-14	Kuba	ceremonial-overskirt	0.99223889	0.07769107
nmnh	E282219	Kuba	pile-cloth	0.985032405	0.100219324
met	1999-522-11	Kuba	prestigepanel	0.98987387	0.08765764
met	2001-271-8	Kuba	prestigepanel	0.958791194	0.171667269
amnh	40pt0-2178	Mapuche	saddleblanket	0.405887754	0.574586905
hpm	2013-24-221	Mapuche	poncho	0.583209314	0.503175066
amnh	40pt1-3759	Mapuche	saddleblanket	0.930774679	0.215761618
amnh	40pt1-3758	Mapuche	saddleblanket	0.902737629	0.251594998
amnh	40pt0-8923	Mapuche	poncho	0.645999068	0.450653891
amnh	40pt0-2181	Mapuche	poncho	0.370794384	0.587019263
tmc	T91-0358	Mapuche	poncho	0.843978674	0.298002315
tmc	T97-0001	Mapuche	poncho	0.718636006	0.392058617
hpm	970-24-30-8802	Mapuche	saddeblanket	0.928692317	0.217315837
mfab	1995-88	Mapuche	poncho	0.63689927	0.445535518
cma	1921-556	Navajo	blanket	0.979178883	0.119333433
cma	1937-903	Navajo	blanket-style-rug	0.762809198	0.359431199
cma	1917-62	Navajo	blanket	0.704727346	0.401450299
cma	1921-560	Navajo	wearing-blanket	0.915038878	0.229472016
cma	1921-948	Navajo	blanket	0.997588672	0.043405822
dia	34-41	Navajo	blanket	0.645797129	0.466444473
cma	1921-561	Navajo	rug	0.875458886	0.273418868
nmnh	e11162	Navajo	blanket	0.806591202	0.365775024
cma	1921-557	Navajo	rug-blanket-style	0.945886595	0.18749724
cma	1921-564	Navajo	wearing-blanket	0.906839126	0.238016594
cma	1921-555	Navajo	wearing-blanket	0.947885864	0.18907796
dia	1987-79	Navajo	blanket	0.963785	0.155296031
cma	1937-855	Navajo	eyedazzler-rug	0.805771329	0.331673137
ypm	ANT-207622	Samoan	tapa-cloth-	0.994162512	0.065125436
mnz	I269230	Samoan	tapa-cloth	0.972547294	0.135981218
brit	oc1981Q-1528	Samoan	barkcloth	0.833272636	0.319813931

mnz	FE011611-I828685	Samoan	tapa-cloth	0.965548593	0.149677455
ypm	ANT-148250	Samoan	barkcloth-	0.977275592	0.126565515
nmnh	e3445	Samoan	barkcloth	0.849352766	0.295270265
yp	ANT-145021	Samoan	tapa	0.980983264	0.1156668
maas	89-764	Samoan	barkcloth	0.975138825	0.134295079
ypm	ANT-258600	Samoan	barkcloth	0.964897895	0.152150946
ypm	ANT-250319	Samoan	round-tapa	0.868116647	0.272366266
ypm	ANT-207621	Samoan	tapa-cloth	0.996535097	0.052005789
ypm	ANT-148249	Samoan	tapa	0.981086528	0.117763346
tmc	T95-0117	Shipibo	cloth	0.375065868	0.583430364
field	341541	Shipibo	cloth-napkin	0.854673182	0.284432473
field	342081	Shipibo	cushma	0.939071451	0.196268262
tmc	T86-0245	Shipibo	cloth	0.697943746	0.405347679
tmc	T86-0759	Shipibo	skirt	0.867624205	0.273059335
tmc	T04-12-24	Shipibo	cloth	0.626307479	0.450228665
tmc	T86-0758	Shipibo	skirt	0.613807441	0.454708639
tmc	T86-0246	Shipibo	cloth	0.51714313	0.511346333
tmc	T86-0761	Shipibo	skirt	0.835533729	0.300443332
tmc	T86-0762	Shipibo	cloth	0.75294462	0.362989348
qb	71-1946-62-1	Shipibo	tunic	0.767213178	0.371007874
mfab	2008-650	Tlingit	blanket	0.789343932	0.340574656
up	NA9225	Tlingit	robe	0.856360123	0.283834504
nmnh	e3168292	Tlingit	robe	0.674889957	0.430139021
dam	1938-399	Tlingit	robe-	0.868771038	0.275917125
UP	NA5770	Tlingit	SHIRT	0.789168368	0.347425344
nmnh	e378523	Tlingit	robe	0.772802936	0.357504248
up	NA1285	Tlingit	robe	0.716797115	0.391051111
up	31-29-12	Tlingit	robe	0.62942286	0.447434624
AIC	1961-568	Tlingit	robe	0.876079239	0.267152535
up	NA9484	Tlingit	robe	0.873389619	0.268544932
tmc	T88-0110	Tongan	barkcloth	0.924183705	0.217852972
tmc	T00-31-1	Tongan	barkcloth	0.887482463	0.267966406
ypm	ANT-250176	Tongan	barkcloth	0.978327113	0.12296607
ypm	ANT-269468	Tongan	tapa	0.864431078	0.292943575
brit	Oc1978-01-14	Tongan	brakcloth	0.905150236	0.251003114
brit	1981x02x1	Tongan	barkcloth	0.934227309	0.219013326
brit	2013-2019-1	Tongan	barkcloth	0.880422814	0.280278892
up	97-120-573	Tongan	tapa	0.954420302	0.174257031
mnz	FE011112	Tongan	Ngatu-tapa-cloth	0.910735271	0.229160892
nmnh	e3436	Tongan	barkcloth	0.958017191	0.174161449

up	97-120-588	Tongan	tapa	0.886990998	0.256958345
tmc	T04-34-44	Toraja	funerary-cloth	0.957286974	0.170052258
maas	A7966-16	Toraja	funerary-cloth	0.926967042	0.23572387
brit	As1982-18-1	Toraja	cloth-ikat	0.773741684	0.379761847
maas	A10901	Toraja	funeary-cloth	0.881157682	0.290783011
qb	70-2001-27-129	Toraja	mawa-cloth	0.843163903	0.32121158
brit	As1974-24-18	Toraja	cloth-ikat	0.706960867	0.415924183
tmc	T94-0554	Toraja	funerary-cloth-porilonjong	0.891910893	0.262609325
brit	As1992-05-94	Toraja	ritual-cloth-ma-a	0.83736652	0.325204683
aic	2002-938	Toraja	ritual-cloth	0.853491372	0.307096581
tmc	T87-0266	Toraja	shaman-cloth	0.84022866	0.296859435
tmc	T04-34-45	Toraja	funeary-cloth	0.812070595	0.326694299
tmc	T90-0189	Toraja	sekomandi	0.941660665	0.197372103
tmc	T77-0107	Toraja	sekomandi	0.97060268	0.146136298
tmc	T2006X0004	Toraja	funerary-cloth-	0.930641407	0.227963899
maas	2015-26-103	Turkmen-Yomut	camel-trapping	0.921159368	0.225277815
maas	2015-26-15	Turkmen-Yomut	bag	0.946983681	0.189726114
maas	2015-2015-26-58	Turkmen-Yomut	bag	0.961946581	0.174292013
maas	2015-26-19	Turkmen-Yomut	bag	0.948858589	0.194299679
maas	2015-26-1	Turkmen-Yomut	rug	0.880138577	0.270174934
maas	2015-26-8	Turkmen-Yomut	tent-door-cover	0.973172125	0.143317203
maas	2015-26-106	Turkmen-Yomut	cameltrapping	0.934357976	0.207172262
maas	2015-26-59	Turkmen-Yomut	bag	0.980450846	0.123146161
met	22-100-47	Turkmen-Yomut	carpet	0.782218332	0.348945949
met	1974-149-44	Turkmen-Yomut	carpet	0.933393003	0.205330053
tmc	T2006-23-5	Uzbek	suzani	0.852877659	0.290128103
tmc	T98-0058	Uzbek	suzani	0.846394696	0.297441877
met	21-114-3	Uzbek	suzani	0.900498223	0.241947725
tmc	T2005-14-1	Uzbek	suzani	0.911301596	0.238854152
met	x07x72x	Uzbek	suzani	0.890738035	0.250994119
tmc	T94-2023	Uzbek	suzani	0.599637878	0.461214529

brituzbeksoc	01carnatbukhara	Uzbek	suzani	0.924598373	0.216872877
tmc	T88-0282	Uzbek	suzani	0.783673331	0.345763401
maas	2003-230-1	Uzbek	suzani	0.783875992	0.355729095
tmc	T94-2004	Uzbek	suzani	0.887342852	0.261276229
brituzbeksoc	diamond-leaf-kermina	Uzbek	suzani	0.885333273	0.270844226
tmc	T88-0376	Uzbek	suzani	0.842385208	0.300755997
brituzbeksoc	04paliak	Uzbek	suzani	0.762449047	0.3591646

Institutional abbreviations for the above:

Abbr	**Museum**
up	Penn Museum (Univ. of Pennsylvania)
dam	Denver Art Museum
stlmus	St. Louis Museum
tmc	Textile Museum of Canada
nmnh	National Museum of Natural History (Smithsonian)
met	The Metropolitan Art Museum
ypm	Yale Peabody Museum
NMAI	National Museum the American Indian (Smithsonian)
mfab	Museum of Fine Arts - Boston
NHB2013-03415	National Museum of Natural History (Smithsonian)
mnz	Museum of New Zealand Te Papa Tongarewa
NHB2013-03421	National Museum of Natural History (Smithsonian)
aic	Art Institute of Chicago
amnh	American Museum of Natural History (NYC)
maas	Powerhouse Museum (Australia)
yaleart	Yale Art Museum
mfah	Museum of Fine Arts - Houston
hpm	Harvard Peabody Museum
cma	Cleveland Museum of Art
dia	Detroit Institute of Art
brit	British Mueum
yp	Yale Peabody Museum
field	Field Museum - Chicago
qb	Musee du Quai-Branly (France)
quai-branly	Musee du Quai-Branly (France)
nelson-atkins	The Nelson-Atkins Museum of Arttkins
brituzbeksoc	The British Uzbek Society
heritage-auctions	Heritage Auction House

APPENDIX B: Additional analyses

Table S2. Tukey-adjusted comparisons of entropy between substrate materials

contrast	estimate	SE	z.ratio	p-value
barkcloth-cotton	0.571	0.353	1.618	0.5867
barkcloth-hide	0.692	0.474	1.459	0.6903
barkcloth-mixed	0.81	0.574	1.411	0.7203
barkcloth-raffia	-0.722	0.633	-1.14	0.8647
barkcloth-wool	*1.176*	*0.352*	*3.338*	*0.0109*
cotton-hide	0.121	0.443	0.273	0.9998
cotton-mixed	0.238	0.548	0.435	0.998
cotton-raffia	-1.294	0.611	-2.118	0.2778
cotton-wool	0.605	0.307	1.969	0.3604
hide-mixed	0.118	0.545	0.216	0.9999
hide-raffia	-1.415	0.686	-2.062	0.3076
hide-wool	0.484	0.404	1.198	0.8381
mixed-raffia	-1.532	0.759	-2.018	0.332
mixed-wool	0.367	0.488	0.751	0.9754
raffia-wool	*1.899*	*0.611*	*3.106*	*0.0233*

Table S3. Tukey-adjusted comparisons of statistical complexity between substrate materials

contrast	estimate	SE	z.ratio	p-value
barkcloth-cotton	-0.4049	0.213	-1.9	0.402
barkcloth-hide	-0.5484	0.299	-1.837	0.4421
barkcloth-mixed	-0.5762	0.379	-1.521	0.6509
barkcloth-raffia	0.6144	0.386	1.593	0.6034
barkcloth-wool	*-0.7489*	*0.213*	*-3.512*	*0.0059*
cotton-hide	-0.1435	0.281	-0.511	0.9958
cotton-mixed	-0.1713	0.365	-0.469	0.9972
cotton-raffia	1.0192	0.372	2.739	0.0679
cotton-wool	-0.3441	0.187	-1.836	0.4425
hide-mixed	-0.0278	0.373	-0.074	1
hide-raffia	1.1628	0.426	2.727	0.07
hide-wool	-0.2005	0.262	-0.764	0.9734
mixed-raffia	1.1906	0.486	2.448	0.1398
mixed-wool	-0.1728	0.334	-0.517	0.9955
raffia-wool	*-1.3633*	*0.372*	*-3.66*	*0.0034*

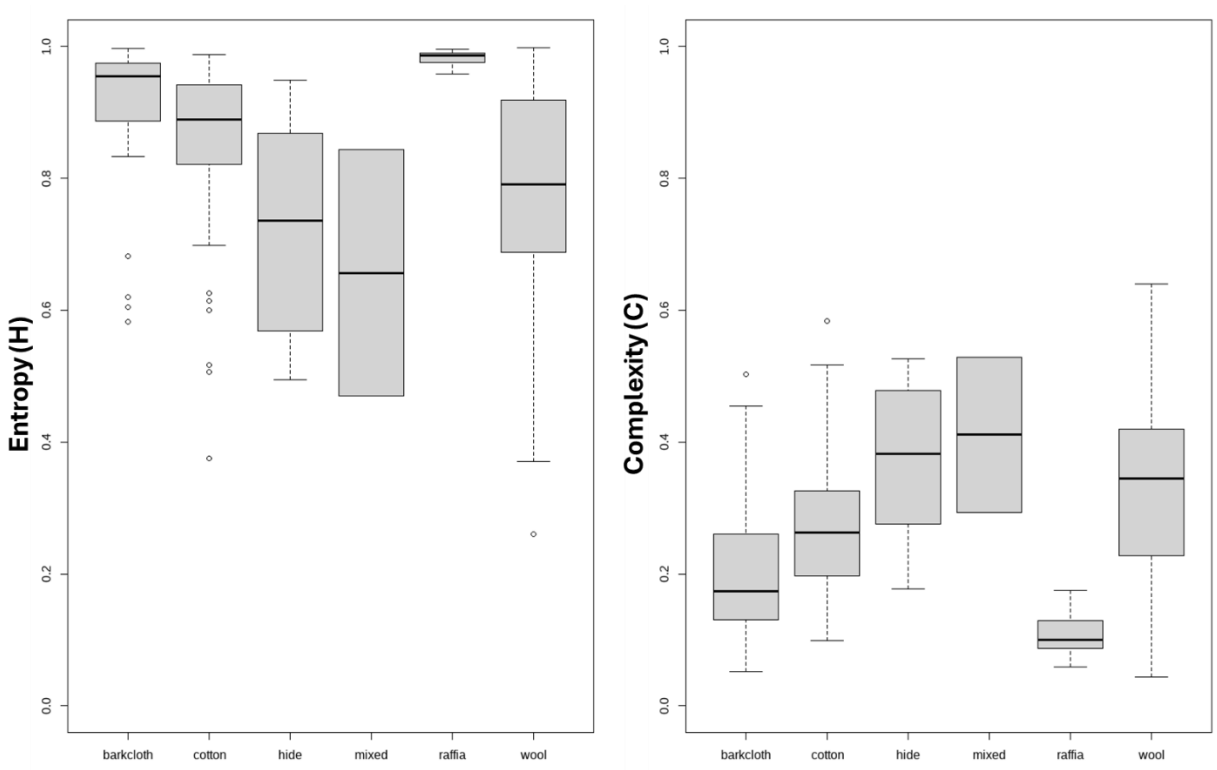


Figure S1. Distributions of entropy and statistical complexity by substrate materials