

Running head: TIMED ACTION AND OBJECT NAMING

Table 4: Pictures With Shared Dominant Names in Object and Action Naming

(The picture numbers of pictures sharing the same name are listed in brackets)

Object naming	Action naming		
<i>2 pictures sharing the same dominant response</i>		<i>3 or 4 pictures sharing</i>	
bird (45,317)	arrest (94,105)	ride (115,178)	cut (5,40,61,206,208)
boat (48,391)	bite (16,152)	run (89,182)	cook (46,96,102)
bottle (18,53)	break (23,68)	shake (101,193)	drip (62,66,86)
brush (64,191)	carve (32,189)	shave (196,197)	look (76,133,235)
chest (92,474)	cough (47,221)	sort (42,217)	sew (192,220,262)
fence (152,175)	count (48,174)	walk (8,257)	wash (194,258,268)
glass (180,511)	cry (52,95)	whisper (100,264)	
gun (189,354)	fly (9,9)	win (11,266)	
hat (80,199)	laugh (125,241)	write (64,272)	
needle (280,436)	plant (157,218)	yell (29,274)	
priest (265,338)	play (44,158)		
stroller (19,428)	relax (127,175)		

**Table 5: Levels of Conceptual Complexity and Associated Reaction Times
for Object and Action Naming**

Complexity Levels (No. of Objects)	OBJECT PICTURES (520)		ACTION PICTURES (275)	
	Percent of Stimuli	Mean RT (in milliseconds)	Percent of Stimuli	Mean RT (in milliseconds)
1	84.4%	1015	3.3%	1169
2	11.5%	1028	36%	1226
3	2.9%	1060	44.7%	1292
4	0.4%	1145	14.2%	1355
5	0.8%	1070	14.5%	1480
6	0.0%	-----	0.4%	2214

**Table 6a: Descriptive Statistics of INDEPENDENT variables
in the SHARED and NONSHARED Picture Names in Object and Action Naming**

	Object: non- shared			Object: shared			T- test	<u>Action: non- shared</u>			Action: shared			T- test
	N	Mean	STD	N	Mean	STD	P<	N	Mean	STD	N	Mean	STD	P<
Length in syll.	496	1.77	0.84	24	1.25	0.44	0.01	211	1.25	0.52	64	1.09	0.29	0.05
Length in char.	496	5.94	2.25	24	5.00	1.38	0.05	211	4.75	1.28	64	4.22	0.97	0.01
Initial frication	496	27.8%		24	33.3%		n.s.	211	32.7%		64	10.9%		0.01
Ln Frequency	496	2.45	1.56	24	3.48	1.41	0.01	211	3.26	1.50	64	4.35	1.30	0.01
Objective AOA	496	2.35	0.88	24	1.92	0.97	0.05	211	2.62	0.71	64	2.16	0.91	0.01
Obj. Vis. Comp.	496	16.86	9.00	24	14.18	6.94	n.s.	211	23.51	8.09	64	24.02	6.76	n.s.
Complex words	496	17.1%		24	0.0%			211	1.4%		64	0.0%		
Conceptual Complexity	496	1.22	0.60	24	1.13	0.34	n.s.	211	2.71	0.76	64	2.92	0.97	0.1

**Table 6b: Descriptive Statistics of DEPENDENT variables
in the SHARED and NONSHARED Picture Names in Object and Action Naming**

	Object: nonshared			Object: shared			T- test	Action: nonshared			Action: shared			T- test
	N	Mean	STD	N	Mean	STD	P<	N	Mean	STD	N	Mean	STD	P<
% Valid resp.	496	96.1%		24	96.8%		n.s.	211	93.9%		64	91.9%		0.1
% No resp.	496	2.4%		24	1.6%		n.s.	211	3.3%		64	6.1%		0.01
% Invalid resp.	496	1.5%		24	1.7%		n.s.	211	2.8%		64	2.0%		0.1
Num. of Types	496	3.32	2.3	24	4	1.75	n.s.	211	5.13	3.11	64	6.64	3.68	0.01
H statistics	496	0.66	0.61	24	0.97	0.53	0.05	211	1.1	0.73	64	1.53	0.83	0.01
% Lex 1dom	496	85.5%		24	75%		0.05	211	74.8%		64	59.7%		0.01
% Lex 2phon	496	3.7%		24	3%		n.s.	211	1.1%		64	0.3%		n.s.
% Lex 3syn	496	2%		24	10.8%		0.01	211	3.9%		64	5.7%		n.s.
% Lex 4oth	496	8.9%		24	11.2%		n.s.	211	20.2%		64	34.3%		0.01
RT total MEAN	496	1041	231	24	1051	228	n.s.	211	1297	272	64	1432	317	0.01
RT total STD	496	328	137	24	369	143	n.s.	211	391	122	64	450	122	0.01
RT target MEAN	496	1019	211	24	1014	216	n.s.	211	1253	256	64	1367	295	0.01
RT target STD	496	306	126	24	343	151	n.s.	211	349	122	64	406	127	0.01
RT Lex2phon M	153	1232	397	10	1319	430	n.s.	27	1648	561	9	1387	519	n.s.
RT Lex3syn M	84	1347	404	9	1210	201	n.s.	60	1507	377	22	1681	348	0.1
RT Lex4oth M	310	1347	394	20	1222	409	n.s.	184	1540	339	58	1628	318	0.1

Table 7: Within Linear Correlation of Dependent Variables of All Responses, or Dominant Responses

(within OBJECT-naming correlation results: upper triangle; within ACTION-naming results: lower triangle)

		%Valid	%None	%Invalid	#Types	H stat.	%Lex 1	RT total	RT targ.	
%Valid response		---	-.93**	-.59**	-.47**	-.41**	+.31**	-.67**	-.64**	O
% No response	A	-.89**	---	+.25**	+.47**	+.37**	-.28**	+.66**	+.63**	B
% Invalid response	C	-.62**	+.18**	---	+.22**	+.25**	-.20**	+.31**	+.31**	J
Number of Types	T	-.56**	+.62**	+.13*	---	+.88**	-.74**	+.75**	+.68**	E
H statistics	I	-.47**	+.50**	+.15*	+.90**	---	-.95**	+.70**	+.66**	C
% Lex 1dom	O	+.47**	-.51**	-.13*	-.80**	-.95**	---	-.58**	-.55**	T
RT total MEAN	N	-.68**	+.75**	+.16**	+.81**	+.79**	-.76**	---	+.98**	T
RT target MEAN		-.64**	+.69**	+.18**	+.72**	+.73**	-.71**	+.96*	---	

(*** = p < .001; ** = p<0.01; * = p<0.05 level; ~ = p<0.10)

Table 8: Within Linear Correlation of Independent Variables of the Dominant Responses

(within OBJECT-naming correlation results: upper triangle; within ACTION-naming results: lower triangle)

	Syll	Char	Fric	LnFreq	objAOA	objVC	Sames	Compl.	CComp.	
Length in syllables	---	+.82**	n.s.	-.46**	+.20**	+.12**	-.13**	+.37**	n.s.	O
Length in characters	+.70**	---	n.s.	-.53**	+.22**	+.11*	-.09*	+.60**	n.s.	B
Initial frication	-.11~	n.s.	---	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	J
Ln Frequency	A -.27**	-.25**	-.13*	---	-.35**	n.s.	+.14**	-.48**	n.s.	E
Objective AOA (CDI)	C +.22**	+.21**	n.s.	-.56**	---	n.s.	-.10*	+.15**	n.s.	C
Obj. Vis. Complexity	T n.s.	n.s.	n.s.	n.s.	n.s.	---	n.s.	n.s.	+.44**	T
Shared-name items	I -.14*	-.18**	-.21**	+.30**	-.25**	n.s.	---	-.10*	n.s.	T
Complex words	O +.17**	+.26**	n.s.	-.20**	n.s.	n.s.	n.s.	---	n.s.	
Conceptual Complexity	N n.s.	n.s.	n.s.	n.s.	n.s.	+.42**	+.11~	n.s.	---	

(*** = p < .001; ** = p<0.01; * = p<0.05 level; ~ = p<0.10)

Table 9a: Linear Correlation of Dependent and Independent Variables of OBJECT Naming

Syllables Characters Frication Ln (CX) objAOA OVCjpg Sames Compl. CComp.

% Valid response	-.14**	-.14**	n.s.	+.25**	-.24**	+.14**	n.s.	-.09*	n.s.
% No response	+.20**	+.18**	-.09*	-.26**	+.25**	-.13**	n.s.	+.11*	-.08~
% Invalid response	n.s.	n.s.	+.11*	n.s.	+.09*	-.08~	n.s.	n.s.	n.s.
Number of Types	+.10*	+.15**	n.s.	-.19**	+.26**	n.s.	n.s.	+.15**	n.s.
H statistics	+.10*	+.17**	n.s.	-.23**	+.22**	n.s.	+.11*	+.18**	n.s.
% Lex 1dom	-.09*	-.16**	+.08~	+.21**	-.16**	n.s.	-.13**	-.19**	n.s.
% Lex 2phon	+.20**	+.34**	n.s.	-.23**	n.s.	+.08~	n.s.	+.43**	n.s.
% Lex 3syn	n.s.	n.s.	n.s.	n.s.	n.s.	+.08~	+.24**	n.s.	+.09*
% Lex 4oth	n.s.	n.s.	-.09*	-.14**	+.21**	-.10*	n.s.	n.s.	n.s.
RT total MEAN	+.15**	+.19**	n.s.	-.33**	+.37**	n.s.	n.s.	+.11*	n.s.
RT target MEAN	+.16**	+.20**	n.s.	-.34**	+.37**	n.s.	n.s.	+.12**	n.s.
RT Lex2phon MEAN (N = 163)	n.s.	n.s.	n.s.	n.s.	+.14~	n.s.	n.s.	n.s.	n.s.
RT Lex3syn MEAN (N = 93)	n.s.	n.s.	n.s.	n.s.	ns	n.s.	n.s.	n.s.	n.s.
RT Lex4oth MEAN (N = 330)	+.11*	+.11~	n.s.	-.22**	+.17**	-.10~	n.s.	n.s.	n.s.

(*** = $p < .001$; ** = $p < 0.01$; * = $p < 0.05$ level; ~ = $p < 0.10$)

Table 9b: Linear Correlation of Dependent and Independent Variables of ACTION Naming

Syllables Characters Frication Ln (CX) objAOA OVCjpg Sames Compl. CComp.

% Valid response	n.s.	n.s.	n.s.	n.s.	-.11~	n.s.	-.10~	n.s.	-.14*
% No response	n.s.	n.s.	n.s.	n.s.	+.13*	n.s.	+.18**	n.s.	n.s.
% Invalid response	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	+.14*
Number of Types	+.17**	+.14*	n.s.	n.s.	+.17**	n.s.	+.19**	n.s.	+.13*
H statistics	+.16**	+.13*	n.s.	n.s.	+.15*	n.s.	+.23**	n.s.	+.18**
% Lex 1dom	-.10~	n.s.	n.s.	n.s.	-.13*	-.13*	-.28**	n.s.	-.17**
% Lex 2phon	n.s.	n.s.	n.s.	-.10~	n.s.	n.s.	n.s.	+.42**	n.s.
% Lex 3syn	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	+.10~	n.s.
% Lex 4oth	n.s.	n.s.	n.s.	n.s.	+.10~	+.12~	+.28**	n.s.	+.17**
RT total MEAN	+.14*	+.13*	n.s.	n.s.	+.17**	+.13*	+.20**	n.s.	+.22**
RT target MEAN	+.12*	+.13*	n.s.	n.s.	+.15*	+.16**	+.18**	n.s.	+.24**
RT Lex2phon MEAN (N = 36)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
RT Lex3syn MEAN (N = 82)	n.s.	n.s.	n.s.	+.32**	n.s.	n.s.	+.21~	n.s.	n.s.
RT Lex4oth MEAN (N = 242)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	+.11~	n.s.	+.11~

(*** = $p < .001$; ** = $p < 0.01$; * = $p < 0.05$ level; ~ = $p < 0.10$)