

Running head: TIMED ACTION AND OBJECT NAMING

**Table 1: Sources of Object and Action Naming Stimuli**

<b>Study</b>	<b>Source</b>	<b>N°</b>
<i><b>PN-Object</b></i>	<b>Snodgrass &amp; Vanderwart, 1980<sup>1</sup></b>	<b>174</b>
	<b>Alterations of Snodgrass &amp; Vanderwart<sup>1</sup></b>	<b>2</b>
	<b>Peabody Picture Vocabulary Test, 1981<sup>2</sup></b>	<b>62</b>
	<b>Alterations of Peabody Pict. Vocab. Test, 1981<sup>2</sup></b>	<b>8</b>
	<b>Martinez – Dronkers set<sup>3</sup></b>	<b>39</b>
	<b>Abbate &amp; La Chappelle "Pictures Please", 1984<sup>4,5</sup></b>	<b>168</b>
	<b>Max Planck Institute for Psycholinguistics<sup>6</sup></b>	<b>20</b>
	<b>Boston Naming Test, 1983<sup>7</sup></b>	<b>5</b>
	<b>Oxford "One Thousand Pictures"<sup>8</sup></b>	<b>25</b>
	<b>Miscellaneous</b>	<b>17</b>
<i><b>PN-Action</b></i>	<b>Action-naming test, 1986<sup>9</sup></b>	<b>27</b>
	<b>Peabody Picture Vocabulary Test, 1981<sup>1</sup></b>	<b>57</b>
	<b>Abbate &amp; La Chapelle "Pictures Please", 1984<sup>3,4</sup></b>	<b>92</b>
	<b>Oxford "One Thousand Pictures"<sup>7</sup></b>	<b>89</b>
		<b>Miscellaneous</b>

<sup>1</sup> Snodgrass, J.G., & Vanderwart, M. (1980). A standardized set of 260 pictures: Norms for name agreement, familiarity and visual complexity. *Journal of Experimental Psychology: Human Learning and Memory*, 6, 174-215.

<sup>2</sup> Dunn, Lloyd M., & Dunn, Leota M. (1981). *Peabody Picture Vocabulary Test -- Revised*. Circle Pines, MN: American Guidance Service.

<sup>3</sup> Picture set used by Martinez, V. A. & Dronkers, N.

<sup>4</sup> Abbate, M.S., & La Chappelle, N.B. (1984a). *Pictures, please! An articulation supplement*. Communication Skill Builders, Inc.

<sup>5</sup> Abbate, M.S., & La Chappelle, N.B. (1984b). *Pictures, please! A language supplement*. Communication Skill Builders, Inc.

<sup>6</sup> Max Planck Institute for Psycholinguistics, Postbus 310, NL- 6500 AH Nijmegen, The Netherlands

<sup>7</sup> Kaplan, E., Goodglass, H., & Weintraub, S. (1983). *Boston Naming Test*. Philadelphia: Lee & Febiger.

<sup>8</sup> *Oxford Junior Workbooks*. Oxford University Press, UK (1965).

<sup>9</sup> Loraine, K. Obler & Martin Albert (1986) *Action Naming Test*.

**Table 2: Descriptive Statistics of Dependent Variables**

	OBJECT NAMING				ACTION NAMING				T-test
	N	Mean	STD	RANGE	N	Mean	STD	RANGE	P<
<b>% Valid response</b>	520	96.1%		60-100%	275	93.5%		36 - 100%	0.01
<b>% No response</b>	520	2.3%		0-34%	275	3.9%		0 - 58%	0.01
<b>% Invalid response</b>	520	1.5%		0-16%	275	2.6%		0 - 36%	0.01
<b>Number of Types</b>	520	3.35	2.28	1-18	275	5.48	3.31	1 - 17	0.01
<b>H statistics</b>	520	0.67	0.61	0-2.9	275	1.2	0.77	0 - 2.88	0.01
<b>% Lex 1dom</b>	520	85.0%		28-100%	275	71.3%		21 - 100%	0.01
<b>% Lex 2phon</b>	520	3.7%		0-68%	275	0.9%		0 - 50%	0.01
<b>% Lex 3syn</b>	520	2.4%		0-49%	275	4.3%		0 - 54%	0.01
<b>% Lex 4oth</b>	520	9.0%		0-63%	275	23.5%		0 - 80%	0.01
<b>RT total MEAN</b>	520	1041	230	656-1843	275	1329	288	792 - 2491	0.01
<b>RT total STD</b>	520	330	137	87-739	275	404	124	132-667	0.01
<b>RT target MEAN</b>	520	1019	211	656-1823	275	1279	270	792 - 2276	0.01
<b>RT target STD</b>	520	307	127	87-739	275	362	126	122-762	0.01
<b>RT Lex2phon MEAN</b>	163	1238	398	573-3057	36	1583	556	640-2730	0.01
<b>RT Lex3syn MEAN</b>	93	1334	390	722-2704	82	1554	375	721 - 3222	0.01
<b>RT Lex4oth MEAN</b>	330	1339	395	584-2789	242	1561	336	673 - 2845	0.01

**Table 3: Characteristics of the Dominant Object and Action Names  
Produced in the Picture Naming Tasks**

<b>Dominant responses</b>	<b>OBJECT NAMING</b>				<b>ACTION NAMING</b>				<b>T-test</b>
	<b>N</b>	<b>Mean</b>	<b>STD</b>	<b>RANGE</b>	<b>N</b>	<b>Mean</b>	<b>STD</b>	<b>RANGE</b>	<b>P&lt;</b>
<b>Length in syllables</b>	520	1.75	0.83	1 – 5	275	1.22	0.49	1 – 3	0.01
<b>Length in characters</b>	520	5.89	2.22	2 – 15	275	4.63	1.23	3 – 10	0.01
<b>Initial frication</b>	520	28.1%		0 – 1	275	27.6%		0 – 1	n.s.
<b>Ln Frequency (CELEX)</b>	520	2.50	1.57	0 – 7.40	275	3.52	1.52	0 – 7.76	0.01
<b>Objective AOA (CDI)</b>	520	2.33	0.89	1 – 3	275	2.51	0.79	1 – 3	0.01
<b>Obj. Vis. Complexity (KB)</b>	520	16.74	8.93	3.7 – 62.2	275	23.63	7.80	3.9 – 53.1	0.01
<b>Items with shared name</b>	520	4.6%		0 – 1	275	23.3%		0 – 1	0.01
<b>Complex words</b>	520	16.3%		0 – 1	275	1.1%		0 – 1	0.01
<b>Conceptual Complexity</b>	520	1.22	0.59	1 – 5	275	2.76	0.82	1 – 6	0.01

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

**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)

<b>Object naming</b>	<b>Action naming</b>		
<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)		

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

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

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

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

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

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

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

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

**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)

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

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



NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

**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)

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

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

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

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

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

NOTE: TABLES 4-9b WILL ONLY BE AVAILABLE ON THE WEB

**Table 9b: Linear Correlation of Dependent and Independent Variables of ACTION Naming****Syllables Characters Frication Ln (CX) objAOA OVCjpg Sames Compl. CComp.**

<b>% Valid response</b>	n.s.	n.s.	n.s.	n.s.	-.11~	n.s.	-.10~	n.s.	-.14*
<b>% No response</b>	n.s.	n.s.	n.s.	n.s.	+.13*	n.s.	+.18**	n.s.	n.s.
<b>% Invalid response</b>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	+.14*
<b>Number of Types</b>	+.17**	+.14*	n.s.	n.s.	+.17**	n.s.	+.19**	n.s.	+.13*
<b>H statistics</b>	+.16**	+.13*	n.s.	n.s.	+.15*	n.s.	+.23**	n.s.	+.18**
<b>% Lex 1dom</b>	-.10~	n.s.	n.s.	n.s.	-.13*	-.13*	-.28**	n.s.	-.17**
<b>% Lex 2phon</b>	n.s.	n.s.	n.s.	-.10~	n.s.	n.s.	n.s.	+.42**	n.s.
<b>% Lex 3syn</b>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	+.10~	n.s.
<b>% Lex 4oth</b>	n.s.	n.s.	n.s.	n.s.	+.10~	+.12~	+.28**	n.s.	+.17**
<b>RT total MEAN</b>	+.14*	+.13*	n.s.	n.s.	+.17**	+.13*	+.20**	n.s.	+.22**
<b>RT target MEAN</b>	+.12*	+.13*	n.s.	n.s.	+.15*	+.16**	+.18**	n.s.	+.24**
<b>RT Lex2phon MEAN (N = 36)</b>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
<b>RT Lex3syn MEAN (N = 82)</b>	n.s.	n.s.	n.s.	+.32**	n.s.	n.s.	+.21~	n.s.	n.s.
<b>RT Lex4oth MEAN (N = 242)</b>	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; (~) =  $p < 0.10$

**Table 10: Regression Analyses:  
Picture and Target Name Characteristics as  
Predictors of Reaction Time and Name Agreement  
(Total Variance and Unique Variance on the Last Step)**

<b>PREDICTORS</b>	<b>Percent Variance in Reaction Times</b>		<b>Percent Variance in Name Agreement</b>	
	<b>OBJECT</b>	<b>ACTION</b>	<b>OBJECT</b>	<b>ACTION</b>
<b>TOT R<sup>2</sup></b>	.205***	.154***	.106***	.159***
<b>Length in characters</b>	n.s.	+0.018*	n.s.	-0.012~
<b>Initial frication</b>	n.s.	n.s.	+0.009*	n.s.
<b>Ln Frequency</b>	-0.038***	+0.016*	+0.012**	n.s.
<b>Objective AOA (CDI)</b>	+0.073***	+0.039***	-0.011*	-0.033**
<b>Obj. Vis. Complexity</b>	-0.007*	n.s.	n.s.	n.s.
<b>Shared-name Items</b>	n.s.	+0.035***	-0.031***	-0.086***
<b>Complex words</b>	n.s.	n.s.	-0.007*	n.s.
<b>Conceptual Complexity</b>	+0.008*	+0.021*	n.s.	n.s.

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

**Table 11: Regression Analyses on Naming Latencies  
for NONSHARED Object and Action Names  
(Total Variance and Unique Variance on the Last Step)**

PREDICTORS	OBJECT	ACTION
	nonshared	nonshared
<b>TOT R<sup>2</sup></b>	.209***	.195***
<b>Length in characters</b>	n.s.	+0.050***
<b>Initial frication</b>	n.s.	n.s.
<b>Ln Frequency</b>	-0.034***	+0.026*
<b>Objective AOA (CDI)</b>	+0.079***	+0.074***
<b>Obj. Vis. Complexity</b>	-0.008*	+0.018*
<b>Complex words</b>	n.s.	n.s.
<b>Conceptual Complexity</b>	+0.010*	+0.017*

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

**Table 12: Regression Analyses Using Form Class (Noun-Verb Status) as a Predictor  
(Total Variance and Unique Variance on the Last Step)**

<b>PREDICTORS</b>	<b>Reaction</b>	<b>Name</b>
	<b>Time</b>	<b>Agreement</b>
<b>TOT R<sup>2</sup></b>	.327***	.209***
<b>Length in characters</b>	+0.006**	n.s.
<b>Initial frication</b>	n.s.	+0.004~
<b>Ln Frequency</b>	-0.002~	n.s.
<b>Objective AOA (CDI)</b>	+0.041***	-0.014***
<b>Obj. Vis. Complexity</b>	n.s.	n.s.
<b>Shared-name Items</b>	+0.018***	-0.053***
<b>Complex words</b>	n.s.	-0.004~
<b>Conceptual Complexity</b>	+0.013***	-0.006*
<b>Verb (1) or Noun (2)</b>	-0.044***	+0.016***

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

**Table 13: Regression Analyses Using Name Agreement and Form Class (Noun-Verb Status) as Predictors of Naming Latencies (Total Variance and Unique Variance on the Last Step)**

<b>PREDICTORS</b>	<b>VARIANCE ACCOUNTED FOR</b>
<b>TOTAL R<sup>2</sup></b>	.567***
<b>Length in characters</b>	+0.003*
<b>Initial frication</b>	+0.002~
<b>Ln Frequency</b>	n.s.
<b>Objective AOA (CDI)</b>	+0.018***
<b>Obj. Vis. Complexity</b>	n.s.
<b>Shared-name Items</b>	n.s.
<b>Complex words</b>	-0.002*
<b>Conceptual Complexity</b>	+0.005**
<b>Name Agreement</b>	-0.240***
<b>Verb (1) or Noun (2)</b>	-0.019***

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

## Figure Captions

Figure 1. Distribution of PNA and PNO pictures according to name agreement

Figure 2. Histogram of object and action-naming response times

Figure 3. Mean RT of dominant responses of PNO and PNA pictures according to name agreement

Figure 4a. Word frequency mean of different RT ranges

Figure 4b. Mean of objective AOA values of different RT ranges

Figure 4c. Average picture complexity measures in the RT Ranges













