

B Classification of nouns by assignment rules and gender

B.1 Gender A (Class 1/2)

Semantic features	N	n (Gender A)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	196	56	45.57432531	46	0
Augmentative	32	0	32	9.233248262	9	0
Abstract	1006	0	1006	145.5074078	146	0
Animal	155	0	155	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	0	44	11.62732428	12	0
Plant part	47	0	47	12.2073242	12	0
Fruit	17	0	17	6.000254106	6	0
Artefact	136	0	136	27.68360554	28	0
Narrow	115	0	115	24.23638461	24	0
Derived	1082	72	1010	154.8686334	155	0
Cohesive	58	0	58	14.28415566	14	0
dispersive	64	0	64	15.3887471	15	0
Extended	162	0	162	31.84214889	32	0
Spread	52	0	52	13.1604132	13	0
Wavy	54	0	54	13.53728152	14	0
Pejorative	24	0	24	7.551791531	8	0
Infinitive	671	0	671	103.3517077	103	0
Loan	151	31	110	30.09598924	30	0
Manner	10	0	10	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plants	34	0	37	9.64166873	10	0
Concrete	1320	196	1124	183.7061799	184	0
[Human]-[Pejorative]	235	196	39	43.0435	43	1

Table 1: The productivity of semantic features in gender A. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender A)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	161	236	66.34428934	66	0
a-	188	188	0	35.90224075	36	1
mî-	208	07	208	38.96927701	39	0
î-	187	1	186	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	1	268	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	0	300	53.03013114	53	0
∅	150	34	116	29.61651255	30	0
n-	497	0	497	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	0	83	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
kû-	677	0	677	103.8714553	104	0
ba-	1	1	1	—	—	—
[mû(u)-]+[Human]	166	161	5	32.47269103	32	1

Table 2: The productivity of morphophonological features in gender A. The target features for this gender are highlighted.

B.2 Gender B (Class 3/4)

Semantic features	N	n (Gender B)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	4	248	45.57432531	46	0
Augmentative	32	1	31	9.233248262	9	0
Abstract	1006	35	971	145.5074078	146	0
Animal	155	12	143	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	5	39	11.62732428	12	0
Plant part	47	11	36	12.2073242	12	0
Fruit	177	0	17	6.000254106	6	0
Artefact	136	32	104	27.68360554	28	0
Narrow	115	32	83	24.23638461	24	0
Derived	1082	29	1053	154.8686334	155	0
Cohesive	58	5	53	14.28415566	14	0
dispersive	64	10	54	15.3887471	15	0
Extended	161	80	81	31.84214889	32	0
Spread	52	3	49	13.1604132	13	0
Wavy	54	15	39	13.53728152	14	0
Pejorative	24	0	24	7.551791531	8	0
Infinitive	671	0	671	103.3517077	103	0
Loan	151	16	135	30.09598924	30	0
Manner	10	0	10	4.342944819	4	0
Tree	16	15	1	5.770780164	6	1
Plants	34	5	29	9.64166873	10	0
Concrete	1320	172	1148	183.7061799	184	0

Table 3: The productivity of semantic features in gender B. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender B)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	208	189	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	208	0	38.96927701	39	1
î-	187	0	187	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	0	300	53.03013114	53	0
∅	150	0	150	29.61651255	30	0
n-	497	0	497	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	0	83	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
k(g)û-	677	0	677	103.8714553	104	0
ba-	1	0	1	—	—	—
[mû(u)-]+[non-human]	231	207	24	42.44437165	42	1

Table 4: The productivity of morphophonological features in gender B. The target features for this gender are highlighted.

B.3 Gender C (class 5/6)

Semantic features	N	n (Gender C)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	2	250	45.57432531	46	0
Augmentative	32	25	8	9.233248262	9	1
Abstract	1006	36	970	145.5074078	146	0
Animal	155	13	142	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	12	32	11.62732428	12	0
Plant part	47	5	42	12.2073242	12	0
Fruit	17	8	9	6.000254106	6	0
Artefact	136	9	127	27.68360554	28	0
Narrow	115	2	113	24.23638461	24	0
Derived	1082	33	1049	154.8686334	155	0
Cohesive	58	3	55	14.28415566	14	0
dispersive	64	3	61	15.3887471	15	0
Extended	162	6	156	31.84214889	32	0
Spread	52	15	37	13.1604132	13	0
Wavy	54	0	54	13.53728152	14	0
Pejorative	24	0	24	7.551791531	8	0
Infinitive	671	0	671	103.3517077	103	0
Loan	151	146	146	30.09598924	30	0
Manner	10	0	10	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plants	34	2	31	9.64166873	10	0
Concrete	1320	122	1198	183.7061799	184	0

Table 5: The productivity of semantic features in gender C. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender C)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	0	397	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	153	34	35.7476806	36	1
ri-	5	5	0	3.106674673	3	1
ma-	145	143	2	29.13557516	29	1
k(g)î-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	0	300	53.03013114	53	0
∅	150	4	146	29.61651255	30	0
n-	497	0	497	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	0	83	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
k(g)û-	677	1	676	103.8714553	104	0
ba-	1	0	1	—	—	—

Table 6: The productivity of morphophonological features in gender C. The target features for this gender are highlighted.

B.4 Gender D (Class 7/8)

Semantic features	N	n (Gender D)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	21	231	45.57432531	46	0
Augmentative	33	3	30	9.233248262	9	0
Abstract	1006	51	955	145.5074078	146	0
Animal	155	18	137	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	9	35	11.62732428	12	0
Plant part	47	13	34	12.2073242	12	0
Fruit	17	0	17	6.000254106	6	0
Artefact	136	34	102	27.68360554	28	0
Narrow	115	3	112	24.23638461	24	0
Derived	1082	63	1019	154.8686334	155	0
Cohesive	58	0	58	14.28415566	147	0
dispersive	64	6	58	15.3887471	15	0
Extended	161	18	143	31.84214889	32	0
Spread	52	7	45	13.1604132	13	0
Wavy	54	3	51	13.53728152	14	0
Pejorative	24	20	4	7.551791531	87	1
Infinitive	671	0	671	103.3517077	103	0
Loan	151	9	142	30.09598924	30	0
Manner	10	1	9	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plants	33	13	20	9.64166873	10	0
Concrete	1320	186	1134	183.7061799	184	0

Table 7: The productivity of semantic features in gender D. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender D)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	0	397	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	0	187	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	237	32	48.08112193	48	1
i-	240	237	3	43.79051482	44	1
n-	300	0	300	53.03013114	53	0
∅	150	1	149	29.61651255	30	0
n-	497	0	497	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	0	83	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
kû-	677	0	677	103.8714553	104	0
ba-	1	0	1	—	—	—

Table 8: The productivity of morphophonological features in gender D. The target features for this gender are highlighted.

B.5 Gender E (Class 9/10)

Semantic features	N	n (Gender E)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	20	232	45.5743253	46	0
Augmentative	33	0	33	9.23324826	9	0
Abstract	1006	41	965	145.507408	146	0
Animal	155	89	66	30.7330825	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	15	29	11.6273243	12	0
Plant part	47	6	41	12.2073242	12	0
Fruit	17	9	8	6.00025411	6	0
Artefact	136	33	103	27.6836055	28	0
Narrow	115	5	110	24.2363846	24	0
Derived	1082	35	1047	154.868633	5	0
Cohesive	58	10	48	14.2841557	14	0
dispersive	64	11	53	15.3887471	15	0
Extended	161	20	141	31.8421489	32	0
Spread	52	10	42	13.1604132	13	0
Wavy	54	5	49	13.5372815	14	0
Pejorative	24	1	23	7.55179153	8	0
Infinitive	671	0	671	104.131184	104	0
Loan	151	68	83	28.4919865	28	0
Manner	10	0	10	4.34294482	4	0
Tree	16	0	16	5.77078016	67	0
Plants	33	5	28	9.64166873	10	0
Concrete	1320	339	981	183.70618	184	0

Table 9: The productivity of semantic features in gender E. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender E)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	1	396	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	9	178	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	292	8	53.03013114	53	1
∅	150	69	81	29.61651255	30	0
n-	497	377	120	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	1	82	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
k(g)û-	677	0	677	103.8714553	104	0
ba-	1	0	1	—	—	—

Table 10: The productivity of morphophonological features in gender E. The target features for this gender are highlighted.

B.6 Gender F (Class 11/12)

Semantic features	N	n (Gender F)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	0	252	45.57432531	46	0
Augmentative	33	1	33	9.233248262	9	0
Abstract	1006	16	990	145.5074078	146	0
Animal	155	4	151	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	0	44	11.62732428	12	0
Plant part	47	8	39	12.2073242	12	0
Fruit	17	0	17	6.000254106	6	0
Artefact	136	13	123	27.68360554	28	0
Derived	1082	13	1069	154.8686334		
Cohesive	58	5	53	14.28415566	14	0
dispersive	64	3	61	15.3887471	15	0
Extended	161	31	130	31.84214889	32	0
Spread	52	13	39	13.1604132	13	0
Wavy	54	26	28	13.53728152	14	0
Narrow	115	64	51	24.23638461	24	0
Pejorative	24	0	24	7.551791531	8	0
Infinitive	671	0	671	103.3517077	103	0
Loan	151	1	150	30.09598924	30	0
Manner	10	0	10	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plants	33	3	31	9.64166873	10	0
Concrete	1320	92	1228	183.7061799	184	0

Table 11: The productivity of semantic features in gender F. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender F)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	0	397	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	0	187	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	0	300	53.03013114	53	0
∅	150	0	150	29.61651255	30	0
n-	497	107	390	80.32055989	80	0
rû-	122	108	14	25.39539205	25	1
k(g)a-	83	0	83	18.78320749	19	1
tû-	77	0	77	17.72639253	18	1
û-	106	0	106	22.7300063	23	0
kû-	677	0	677	103.8714553	104	0
ba-	1	0	1	—	—	—

Table 12: The productivity of morphophonological features in gender F. The target features for this gender are highlighted.

B.7 Gender G (Class 12/13)

Semantic features	N	n (Gender G)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	7	245	45.5743253	46	0
Augmentative	33	0	33	9.23324826	9	0
Abstract	1006	4	1002	145.507408	146	0
Animal	155	14	141	30.7330825	31	0
Diminutive	76	74	2	17.5489909	18	1
Round	44	1	43	11.6273243	12	0
Plant part	47	3	44	12.2073242	12	0
Fruit	17	0	17	6.00025411	6	0
Artefact	136	10	126	27.6836055	28	0
Narrow	115	4	111	24.23638467	24	0
Derived	1082	59	1023	154.868633	55	0
Cohesive	58	1	57	14.2841557	14	0
dispersive	64	2	62	15.3887471	15	0
Extended	161	1	160	31.8421489	32	0
Spread	52	2	50	13.1604132	13	0
Wavy	54	0	54	13.5372815	14	0
Pejorative	24	0	24	7.55179153	8	0
Infinitive	671	0	671	104.131184	104	0
Loan	151	3	148	28.4919865	28	0
Manner	10	0	10	4.34294482	4	0
Tree	16	1	15	5.77078016	6	0
Plants	33	0	33	9.64166873	10	0
Concrete	1320	73	1247	183.70618	184	0

Table 13: The productivity of semantic features in gender G. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender G)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	0	397	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	0	187	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	0	145	29.13557516	29	0
kî-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	300	0	300	53.03013114	53	0
∅	150	2	148	29.61651255	30	0
n-	497	0	497	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	77	6	18.78320749	19	0
tû-	77	77	0	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
kû-	677	0	677	103.8714553	104	0
ba-	1	0	1	—	—	—

Table 14: The productivity of morphophonological features in gender G. The target features for this gender are highlighted.

B.8 Gender H (Class 16/15)

Semantic features	N	n (Gender H)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	0	252	45.57432531	46	0
Augmentative	33	0	33	9.233248262	9	0
Abstract	1006	0	1006	145.5074078	146	0
Animal	155	0	155	30.73308246	31	0
Diminutive	76	0	76	17.5489909	18	0
Round	44	0	44	11.62732428	12	0
Plant part	47	0	47	12.2073242	12	0
Fruit	17	0	17	6.000254106	6	0
Artefact	136	0	136	27.68360554	28	0
Narrow	115	0	115	24.23638461	24	0
Derived	1082	0	1082	154.8686334	155	0
Cohesive	58	0	58	14.28415566	14	0
dispersive	64	0	64	15.3887471	15	0
Extended	161	0	161	31.84214889	32	0
Spread	52	0	52	13.1604132	13	0
Wavy	54	0	54	13.53728152	14	0
Pejorative	24	0	24	7.551791531	87	0
Infinitive	671	0	671	103.3517077	103	0
Loan	151	0	151	30.09598924	30	0
Manner	10	0	10	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plant	33	0	33	9.64166873	10	0
Concrete	1320	1	1319	183.7061799	184	0

Table 15: The productivity of semantic features in gender H. The target features for this gender are highlighted.

Morphophonological features	N	n (Gender H)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	0	397	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	0	187	35.7476806	36	0
rî-	5	0	5	3.106674673	37	0
ma-	145	0	145	29.13557516	29	0
k(g)î-	269	0	269	48.08112193	48	0
i-	240	0	240	43.79051482	44	0
n-	303	0	303	53.03013114	53	0
∅	148	0	148	29.61651255	30	0
n-	499	0	499	80.32055989	80	0
rû-	122	0	122	25.3953925	25	0
k(g)a-	83	0	83	18.78320749	19	0
tû-	77	0	77	17.72639253	18	0
û-	106	0	106	22.7300063	23	0
k(g)û-	677	0	677	103.8714553	104	0
ba-	1	1	0	—	—	—

Table 16: The productivity of morphophonological features in gender H. The target features for this gender are highlighted.

B.9 GAC (Class 14, 15, Transnumerals)

Semantic features	N	n (GAC)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
Human	252	1	251	45.57432531	46	0
Augmentative	33	3	30	9.233248262	9	0
Animal	155	0	155	30.73308246	31	0
Diminutive	76	2	74	17.5489909	18	0
Round	44	2	42	11.62732428	12	0
Plant part	47	1	46	12.2073242	12	0
Fruit	17	0	17	6.000254106	6	0
Artefact	136	4	132	27.68360554	28	0
Narrow	115	5	110	24.23638461	24	0
Cohesive	58	34	24	14.28415566	14	0
dispersive	64	29	35	15.3887471	15	0
Extended	161	5	156	31.84214889	32	0
Spread	52	2	50	13.1604132	13	0
Wavy	54	5	49	13.53728152	14	0
Pejorative	24	3	21	7.551791531	8	0
Infinitive	671	671	0	103.3517077	103	0
Loan	151	18	133	30.09598924	30	0
Manner	10	9	1	4.342944819	4	0
Tree	16	0	16	5.770780164	6	0
Plant	33	6	27	9.437989028	9	0
Derived	1082	778	304	154.8686334	155	0
Abstract	1006	821	185	145.5074078	146	0
Concrete	1320	136	1184	183.7061799	184	0

Table 17: The productivity of semantic features in gender GAC. The target features for this gender are highlighted.

Morphophonological features	N	n (GAC)	e	$N/\ln(N)$	$\approx \theta N$	$e \leq \theta N$
mû(u)-	397	27	370	66.34428934	66	0
a-	188	0	188	35.90224075	36	0
mî-	208	0	208	38.96927701	39	0
î-	187	24	163	35.7476806	36	0
ri-	5	0	5	3.106674673	3	0
ma-	145	2	143	29.13557516	29	0
k(g)î-	269	31	238	48.08112193	48	0
î-	240	3	237	43.79051482	44	0
n-	300	8	292	53.03013114	53	0
∅	150	40	110	29.61651255	30	0
n-	497	11	486	80.32055989	80	0
rû-	122	14	108	25.3953925	25	0
k(g)a-	83	5	78	18.78320749	19	0
tû-	77	0	77	17.726392537	18	0
û-	106	103	3	22.7300063	23	1
k(g)û-	677	674	3	103.4816809	103	1
ba-	1	0	1	—	—	—

Table 18: The productivity of morphophonological features in gender GAC. The target features for this gender are highlighted.

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