# Introduction to grammatical gender 

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Lexical Matters

## Basic definitions

- Social gender:

Sex is a biological characterization based primarily on reproductive potential, whereas gender is the social elaboration of sex.
(Eckert and McConnell-Ginet, 2013, p. 2)

- Grammatical gender:

Genders are classes of nouns reflected in the behavior of associated words.
(Hockett, 1958, p. 231)

- Many languages have no grammatical gender.
- The number of grammatical genders varies, from 2 to more than 10.
- Usually, genders are imperfectly associated to semantic properties of nouns.
- In particular, most but not all grammatical gender systems (about 75\% according to Corbett 2013b) have a feminine and a masculine:
- There is exactly one gender which is preferred when referring to women (but not men)
- There is exactly one gender which is preferred when referring to men (but not women)


## Grammatical gender and inflection classes I

- Gender is a classification system manifest in agreement.
(1) French:
a. un livre ${ }_{M}$ 'a book'
b. une livre ${ }_{F}$ 'a pound'
- Gender need not be reflected in the morphology of nouns.
- French is a good example of this, where there is no reliable indication of gender in the form of nouns.

|  | MAS | FEM |  | MAS | FEM |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C final | 9178 | 7253 | <e> final | 4225 | 8877 |
| $V$ final | 8015 | 4966 | other final | 12968 | 3342 |
| (phonology) |  |  | (orthography) |  |  |

## Grammatical gender and inflection classes II

- Even where the form of nouns is indicative of gender, this is usually not fully reliable (Aronoff, 1994).
(2) Spanish:
a. est-a nuev-a casa 'this new house'
b. est-e nuev-o edificio 'this new building'
c. est-a nuev-a mujer 'this new woman'
d. est-e nuev-o día 'this new day'


## Grammatical gender and inflection classes III

- Note the confusion in traditional grammars of languages without case declension between genders and inflection classes, i.e., a classification of nouns on the basis of how they inflect.
- Italian:

| SG | spaghetto spaghetti | mano <br> mani | atleta atleti | \|macchina macchine | $\left\lvert\, \begin{array}{ll} \text { cane } & \text { arte } \\ \text { cani } & \text { arti } \end{array}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| gender translation | MAS <br> spaghetti | FEM <br> jand | MAS athlete | $\begin{aligned} & \text { FEM } \\ & \text { car } \end{aligned}$ | $\begin{array}{\|ll} \text { MAS } & \text { FEM } \\ \text { dog } & \text { art } \end{array}$ |

- 2 genders (as witnessed in agreement), at least 6 inflection classes.
- Some classes have nouns of both genders.
- Some number exponents are partially indicative of gender ( $\mathrm{PL}-\boldsymbol{e} \rightarrow \mathrm{FEM}$ ).


## Grammatical gender and inflection classes IV

- Still, it is often the case that the shape of nouns is indicative of their gender.
- A remarkably well-studied case: Ingush (Nichols, 2011, chap. 7).

Table 7-1. Frequency of initial $j$-, $d$-, and $b$ - in nonhuman nouns of $J, D$, and $B$ gender.
Harmonic $($ bold $)=$ same initial consonant as gender marker. $\%=$ percent of total in column.

| Gender | $J$ | $D$ | $B$ |
| :---: | :---: | :---: | :---: |
| $j-$ | $\mathbf{4 6} \mathbf{( 4 . 3 \% )}$ | $29(3 \%)$ | $4(0.1 \%)$ |
| $d-$ | $39(3.7 \%)$ | $\mathbf{1 5 1 ( 1 6 \% )}$ | $17(4 \%)$ |
| $b-$ | $115(11 \%)$ | $47(5 \%)$ | $\mathbf{7 7 ( \mathbf { 1 7 \% } )}$ |
| other | 1064 | 954 | 444 |
| TOTAL 1110 | 1105 | 521 |  |

## Typical semantic correlates of grammatical gender

- Systems based on social gender
- Systems based on animacy
(3) Suédois:
a. en stor björn 'a big bear'
b. ett stor-t horn 'a big horn'
- Combined systems (masculine/feminin/neuter)
(4) Bagwalal:
a. w-eš:a-w waša
M.SG-plump-M.SG boy
'a plump boy'
b. j-eš:a-j jaš
F.SG-plump-F.SG girl
'a plump girl'
c. b-eš:a-b 乌ama
N.SG-plump-N.SG donkey
'a plump donkey'


## More than three genders: Mian (Fedden, 2011)



## How many genders? Czech I

|  |  | MAS.ANIM |  |  | MAS.INAN |  | FEM |  | $\begin{array}{\|c} \text { NEU } \\ \text { MĚSTO } \\ \text { 'city' } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | HOST 'host' | MUŽ <br> 'man' | TÁTA <br> 'dad' | MOST 'bridge' | KŘíž 'cross' | ŽENA 'woman' | KOST 'bone' |  |
| SG | Nom | host | muž | táta | most | křǐz | žena | kost | město |
|  | gen | hosta | muže | táty | mostu | křiže | ženy | kosti | města |
|  | DAT | hostovi | mužovi | tátovi | mostu | křizi | ženě | kosti | městu |
|  | AcC | hosta | muže | tátu | mos | křǐ̌z | ženu | kost | město |
|  | voc | hoste | muži | táto | moste | křizi | ženo | kosti | město |
|  | LOC | hostovi | mužovi | tátovi | mostě | křizi | ženě | kosti | měs |
|  | INS | hostem | mužem | tátou | mostem | križem | ženou | kostí | městem |
| PL | Nom | hosté | mužové | tátové | mosty | křiže | ženy | kosti | města |
|  | gen | hostů | mužư | tátů | mostů | křižů | žen | kostí | měs |
|  | DAT | hostům | mužů̀m | tátům | mostům | křiž̌um | ženám | kostem | městům |
|  | ACC | hosty | muže | táty | mosty | křiže | ženy | kosti | města |
|  | voc | hosté | mužové | tátové | mosty | křiže | ženy | kosti | města |
|  | Loc | hostech | mužích | tátech | mostech | křižich | ženách | kostech | městech |
|  | INS | hosty, hostama | muži, mužema | tāty, tátama | mosty, mostama | k Ǩiziz, křižema | ženami, ženama | kostmi, kostma | městy, městama |

## How many genders? Czech II

- Is animacy coded in noun inflection, or are there 4 genders?
- Agreement is informative
(5) a. Vidí-m velk-ého muž-e see.PRS-1sG big-MA.SG man(MA)-ACC.SG
'I see a big man.'
b. Vidí-m velk-ý křiž
see.PRS-1sG big-mı.SG cross(mı)[ACC.sG]
'I see a big cross.'
- There are 4 genders in Czech
- The traditional term 'masculine inanimate' is (synchronicaly) misleading: it would make more sense to talk of two neuters, as in Mian.
- Gender is fully predictable from inflection class; however no single form of the noun is unambiguously predictive of gender.


## How many genders? Romanian

a. bărbat bun
man(M)[sG] good[M.SG]
'a good man'
b. film bun
film(N)[sG] good[M.SG] 'a good man'
c. femei-e bun-ă
woman(F)-SG good[F.SG] 'a good man'
(7) a. bărbaţ-i bun-i man(м)-PL good-M.PL 'good men'
b. film-e bun-e film(N)-PL good-F.PL 'good films'
c. femei bun-e woman(F)[PL] good-F.PL ‘good women'

- 3 genders: the overall behaviour of neuter nouns is different from that of masculines of feminines.
- Neuter is a non-autonomous gender (Corbett, 1991, pp. 150-154): no context is unambiguously indicative of neuter gender.


## Grammatical gender vs. classifiers

Genders are classes of nouns reflected in the behavior of associated words. To qualify as a gender system, the classification must be exhautive and must not involve extensive intersection: that is, every noun must belong to one of the classes, and very few can belong to more than one.

Under this definition, some languages have no gender at all. Chinese substantives [...] fall into classes in terms of what measure [i.e., classifier] is used when the substantive is counted, but there are so many measures (hundreds), and so many nouns used with two or more measures with different resulting meaning, that the classification is not usually thought of as a gender system.
(Hockett, 1958, pp. 231-232)

## Classifiers I

Examples from lao (Enfield, 2007, chap. 7)
(8) a. kuu3 sùù4 paa3 sòòng3 too3

1SG.B buy fish two CLF.ANIM
'I bought two fish.'
b. ? kuu3 sùù4 paa3 sòòng3

1SG.B buy fish two
'I bought two fish.'
c. kuu3 sùù4 sòòng3 too3

1SG.B buy two CLF.ANIM
'I bought two (possibly fish, but not baskets).'
(9) a. mùng2 sùù4 (paa3) cak2 too3

2SG.B buy fish how.many CLF.ANIM
'How many (fish) did you buy?'
b. * mùng2 sùù4 (paa3) cak2

2SG.B buy fish how.many

## Classifiers II

## About 100 distinct numeral classifiers.

| Table 14. Some common numeral classifiers |  |  |
| :--- | :--- | :--- |
| Classifier | Meaning as <br> noun | Semantics and example referents |
| sên5 | 'line' | lumps of mass which naturally occur (e.g., pieces <br> of ice, rocks) <br> ribbon/strip/cord-shaped things (e.g., roads, <br> cables) |
| khon2 | 'person' | people, excluding monks (e.g., teachers, children, <br> men) |
| too3 | 'body' | non-human entities with 'bodies' (e.g., dogs, <br> snakes, shirts) |
| ton4 | 'plant' | living plants (e.g., bushes, shrubs, trees) <br> tò̀n1 |
| nuaj1 | 'piece/hunk' | lumps of soft mass which are cut (e.g., pieces of <br> meat) |
| phìùn3 | 'soft sheet'' | round things, assembled things (e.g., apples, <br> chairs, mountains) <br> cloths and similar objects (e.g., tablecloths, skirts, <br> tarpaulins) |
| phèèn1 | 'stiff sheet' | stiff/hard flat things (e.g., sheets of dried noodle, <br> LP records) <br> things with handles, operated by hand (e.g., |
| khan2 | 'handle' | vehicles, umbrellas) <br> very small grains (e.g., seeds, specks) |
| mêtl | 'grain' | very large cylindrical things (e.g., tree-trunks, <br> boats, airplanes) <br> houses, certain fish traps |
| lam2 | - | books, non-fruit bulbous vegetables <br> small things which can be held in hand |
| hua3 | 'ban3 | 'head' |

## Grammatical gender vs. classifiers

|  | Gender | Classifiers |
| :---: | :---: | :---: |
| Size | - All nouns classified <br> - Small number of classes (2 to around 20) <br> - Noun-to-gender relation is one-to-one | - Some nouns not classified, almost always <br> - Fair number, at least a score, with $100+$ being common <br> - Noun-to-classifier relation is one-tomany |
| Realization | - Always a closed grammatical system | - Always a free form |
| Scope | - Never entirely within the noun word <br> - Little variation between speakers | - Never any reference to a classifier outside the NP <br> - Classifier use often indicates style/ mode differences |
| Semantics | - Affix has a fairly fixed meaning | - Classifier is a lexeme, with greater possibilities, context of use is important |

Table 1: Dixon's (1986) criteria opposing gender and classifiers.
See Fedden and Corbett (2017) for extensive discussion of whether a sharp divide between gender systems and classifier systems can be dranw.

## Grammatical gender typology

- We will rely on Corbett (1991, 2013a).
- Four main dimensions:

1. The inventory of genders
2. Gender salience
3. Gender assignent
4. The internal organization of the gender system

## Number and inventory of genders

- Most languages with grammatical gender have two or three genders, correlated with animacy and/or social gender.

| \# of genders | \# of languages | $\%$ | Examples |
| :--- | ---: | ---: | :--- |
| None | 145 | $56 \%$ | Turkish, Estonian, Chinese |
| 2 | 50 | $19 \%$ | French, Spanish, Chinantec, Cree |
| 3 | 26 | $10 \%$ | Russian, Romanian, Tamil, Ket |
| 4 | 12 | $5 \%$ | Czech, Mian, Tsez, Dyirbal |
| plus | 24 | $9 \%$ | Chichewa, Fula, Arapesh, Yimas |

## Chichewa I

a. mu-nthu a-ku-thamanga

SG-person(I) I-PRS-run
'The person runs.'
b. a-nthu a-ku-thamanga

PL-person(I) I-PRS-run
'The persons run.'
a. mu-dzi u-ku-kula
sG-village(ı) II.SG-PRs-grow
'The village grows.'
b. mi-dzi i-ku-kula

PL-village(ı) II.PL-PRS-grow
'The villages grow.'
(12) a. t-samba li-ku-bvunda
sG-leave(III) III.SG-PRS-rot
'The leave rots.'
b. ma-samba a-ku-bvunda PL-leave(III) III.PL-PRS-rot 'The leaves rot.'
(13) a. ulendo u-dza-tha [PL]trip(IV) IV.PL-PRS-end 'The trip will end.'
b. ma-ulendo a-dza-tha PL-trip(IV) IV.PL-PRS-end 'The trips will end.'
(14) a. njoka i-ku-gona snake(v) v.sG-PRs-lie 'The snake lies.'
b. njoka zi-ku-gona snake(v) v.PL-PRs-lie 'The snakes lie.'
a. ka-mwana ka-li bwino SG-baby(viI) VII.SG-PRS.COP well 'The baby is well.'
b. ti-ana ti-li bwino PL-baby(VII) vII.SG-PRS.COP well 'The babies are well.'
(Adapted from Corbett and Mtenje 1987)

## Chichewa II

|  | Noun |  |  | Verb |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| Gender | SG | PL | SG | PL |  |
| I | mu | $a$ | $a$ | $a$ |  |
| II | $m u$ | $m i$ | $u$ | $i$ |  |
| III | $t$ | $m a$ | $l i$ | $a$ |  |
| IV | - | $m a$ | $u$ | $a$ |  |
| V | - | - | $i$ | $z i$ |  |
| VI | $c h i$ | $z i$ | $c h i$ | $z i$ |  |
| VII | $k a$ | $t i$ | $k a$ | $t i$ |  |

Note:

- Number of nouns are partial predictors of gender (as in Italian).
- Neutralization of number occurs on both nouns and verbs.
- Alliterative agreement with some but not all genders.


## Arapesh

| genre | SINGULIER |  |  | PLURIEL | traduction |
| :--- | :--- | :--- | :--- | :--- | :--- |
| I | wab $^{\text {y }}$ | bagara-bi | wabys | bagara-bysi | nuit blanche |
| II | wabør | bagara-børi | waryb | bagara-røbi | village blanc |
| III | nubarig | bagara-gi | nubarigas | bagara-gasi | jardin blanc |
| IV | unuk | bagaro-kwi | unib | bagara-ui | étoile blanche |
| V | daudam | bagara-mi | daudeip | bagare-ipi | araignée blanche |
| VI | femaun | bagara-ni | femaub | bagara-bi | dugong blanc |
| VII | niganin | bagara-ni | nigamin | bagara-mi | fils blanc |
| VIII | kaiñ | bagare-ñi | kaif | bagare- $f i$ | arc blanc |
| IX | fupu | bagara-pi | fus | bagara-si | feuille blanche |
| X | jur | bagara-ri | jugu | bagara-guhi | serpent blanc |
| XI | nybat | bagara-ti | nybagu | bagara-gwi | chien blanc |
| XII | natage | bagaro-whi | natagegwiruh | bagara-ruhi | lézard blanc |
| XIII | ha $^{h}$ | bagara-hi | he | bagara-hi | doigt blanc |

(Dobrin, 2012)

## Burmeso

- In burmeso (Donohue, 2001), verbs agree with their absolutive argument.
(17)
a. da nawak g-ihi-maru

1SG woman.SG II.SG-see-TODAY'S_PAST
'I saw a woman.'
b. da mibo j-ihi-maru

1SG banana.SG V.SG-see-TODAY'S_PAST
'I saw a banana.'
c. jamo nawak n-akwa-ru
dog.SG woman.SG II.SG-bite-TODAY's_PAST
'The dog bit a woman.'

- 6 genders combining 3 markers per class:

| gender | class I |  | class II |  |
| :---: | :---: | :---: | :---: | :---: |
|  | SG | PL | SG | PL |
| 1 | j-ihi | s-ihi |  | t-akwa |
| 11 | g-ihi | s-ihi |  | t-akwa |
| III | g-ihi | j-ihi | n -a | b-akwa |
| Iv | j-ihi | j-ihi |  | b-akwa |
| V | j-ihi | g-ihi |  | n-akwa |
| vi | $\underset{\sim}{g}$ | $\begin{aligned} & \text { g-ihi } \\ & \text { oir » } \end{aligned}$ |  | n-akwa rdre» |

## Salience of gender

- A sadly understudied topic:

1. Which part of the lexicon gives rise to gender oppositions?

- Noms and pronouns vs. just pronouns
- First names, last names

2. How manifest is gender in the form of nouns?

- French vs. Spanish

3. How manifest is gender from the environment?

- Constructions giving rise to agreement (and their frequency)
- Prevalence of syncretism in agreement targets
- Obligatory vs. optional agreement


## Gender assignment I

- (Supposedly) purely semantic assignment:



## Gender assignment II

- (Supposedly) purely morphological assignment: Russian or Czech.
- (Supposedly) purely phonological assignment: Spanish.
- Mixed semantic and phonological system:

| Semantic assignment |  |
| :--- | :--- |
| 1. | nouns denoting males $\rightarrow$ gender I |
| 2. | females, fresh water, fire, stinging $\rightarrow$ gender II |
| 3. | edible $\rightarrow$ gender III |
| 4. | remaining inanimates $\rightarrow$ gender IV |
|  |  |
| Formal assignment (remaining animates) |  |
| 1. | nouns in bi-, gugu-, ma-, yi-, -gan $\rightarrow$ gender II |
| 2. | remainder $\rightarrow$ gender I |

Gender assignment in Dyirbal (Plaster and Polinsky, 2010)
(Accuracy 0.96)

## Gender assignment III

- Mixed semantic and morphological system: Swahili Corbett (1991, p. 47) Semantic assignment

1. augmentatives belong to gender $5 / 6$, e.g. j-oka 'giant snake';
2. diminutives belong to gender 7/8, e.g. ki-toto 'baby', ki-j-oka 'tiny snake';
3. remaining animates belong to gender 1/2, e.g. mw-alimu 'teacher', m-jusi ‘lizard', jogoo 'rooster', ki-pofu 'blind person', ki-faru 'rhinoceros', tembo 'elephant', nyoka snake'.
Morphological assignment
4. morphological class $3 / 4$ (m-/mi-) $\rightarrow$ gender $3 / 4$
5. morphological class $5 / 6$ ( 0 ji-/ma-) $\rightarrow$ gender $5 / 6$
6. morphological class $7 / 8$ (ki-/vi-) $\rightarrow$ gender 7/8
7. morphological class 9/10 ( $\mathrm{N}-/ \mathrm{N}$-) $\rightarrow$ gender 9/10
8. morphological class $11 / 10(w-/ N-) \rightarrow$ gender $11 / 10$
9. infinitives (morphological class 15, ku-) $\rightarrow$ gender 15

## The internal organization of gender systems

- Cf. Corbett (2013a)
- Canonical typology: the diversity of systems is characterized by comparison to a canon, an idealized system constituting a perfect instance of the category under inversigation.
- Canonical morphosyntactic features (Corbett, 2012):

1. Canonical feature values have dedicated exponents.
2. Canonical feature values are expressed irrespective of the values of other features.
3. Canonical feature values are expressed on with all parts of speech for which they are relevant.
4. Canonical feature values are expressed for all lexemes in a part of speech.

## Criterion 1: dedicated exponents

- Canonical situation: for each gender, there is at least one context in which it is distinguished from all others.
- Deviations: Romanian (neuter), Burmeso (all genders).


## Criterion 2: feature independence

- Canonical situation: feature values are expressed irrespective of the values of other features (i.e., no neutralization)
- Deviations: Chichewa, Burmeso
- A remarkable deviation: Archi

Gender marking in Archi (axas 'lie down')

| NUMBER | GENDER | IMPERFECTIVE | PERFECTIVE |
| :---: | :---: | :---: | :---: |
| SG | 1 | w-a<r>xa-r | $a<w>\chi^{\prime}{ }^{8}$ |
|  | 11 | $d-a<r>x a-r$ | a<r>xu |
|  | III | $b-a<r>x a-r$ | $a<b>\chi u$ |
|  | IV | $a<r>x a-r$ | axu |
| PL | 1 | $b-a<r>x a-r$ | $a<b>x u$ |
|  | II |  |  |
|  | III | $a<r>x a-r$ | axu |
|  | IV |  |  |

## Criterion 3: part of speech independence I

- Canonical situation: same gender distinctions in all relevant parts of speech
- A remarkable deviation: Burmeso
- We saw above a 6-gender partition based on agreement with verbs.
- There is also agreement with predicative adjectives:
(18)
a. Da de koya bek-abo
1SG 1SG.POSS grandfather.SG good-M.SG 'My grandfather is well.'
b. Da d-asia bek-an
1SG 1SG.POSS-grandmother.SG good-F.SG
'My grandmother is well.'
c. Da de-koysorad bek-odo
1SG 1SG.Poss-grandson.PL good-anim.PL 'My grandmother is well.'
- 6 genders:

|  | ANIM |  |  | INANIM |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | MAS | FEM | NEU | MAS | FEM | NEU |
| SG | -ab | -an | -ora | -ab | -an | -ora |
| PL | -od(o) | -od(o) | -or(o) | -or | -or | -od |

## Criterion 3: part of speech independence II

- The two gender system are largely independent. Donohue documents 16 of the $6 \times 6=36$ concievable combinations:

|  | M | F | N | M INAN | F INAN | N ANIM |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 4 <br> male kin <br> terms | 5 (4 birds) |  | 1 ('neck') |  | 2 ('sea', <br> 'wound') |  |
| II |  | 7 plus all <br> female kin <br> terms | 4 |  | 1 ('small <br> goanna') | 2 ('sago <br> rinser <br> (lower)', <br> 'string. <br> shapes') |
| III | 3 |  | 28, mainly <br> inanimate | 10, inani- <br> mate | 1 ('goanna') |  |
| IV | 9, inanimate |  |  |  | 2 ('banana', <br> 'sago tree') |  |
| V |  |  |  |  |  |  |
| VI ('arrow') |  | 1 ('coconut') |  |  |  |  |

## Critère 4: uniformity

- In the canonical situation, feature values are expressed for all lexemes in a part of speech.
- This is rarely the case: cf. French
- A spectacular example: Archi (Chumakina and Corbett, 2015)

|  | total | agreeing | \% agreeing |
| :--- | ---: | :---: | :---: |
| adjectives | 446 | 313 | 70.2 |
| verbs | 1248 | 399 | 32.0 |
| adverbs | 397 | 28 | 7.1 |
| enclitic particles | 4 | 1 | $(25.0)$ |

## Envoi: grammatical and social gender

- In the last decade, fascinating research on
- Undocumented aspects of gender systems (see e.g. An and Abeillé 2022; Bonami and Boyé 2019).
- The social consequences of the presence of grammatical gender distinctions (see e.g. Gygax et al. 2012; Richy and Burnett 2021).
- The efficacy and consequences of proposed changes in grammatical gender conventions (see e.g. Burnett and Bonami 2019, Pozniak and Burnett 2021).
- These research efforts are partially fueled by, but distinct from, societal interest in social change, notably on the social position of women or of gender and sexual minorities.
- As fascinating as these issues are, progress will be helped by a better awareness of the considerable diversity in the organization of grammatical gender systems.
- For instance:
- Different gender assignment systems are expected to have different consequences for the social meaning associated with gender.
- The social import of grammatical gender is expected to vary with the salience of gender in the language.
- ...


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