### Today

- Historical linguistics
- Language change
- Language families



### Language change

- Languages are constantly changing
- Language change is normal
- Language change ≠ decay, corruption

# Why do languages change?

#### Possible reasons:

- Isolated groups develop separately
- Children can introduce innovations
- Optional rules may become obligatory

. . .

## **Historical Linguistics**

- Concerned with
  - How languages change over time
  - How languages are related to one another

### **Historical Linguistics**

- Diachronic change: language change over time
- Synchronic change: language change at a particular point in time

### **Historical Linguistics**

- Sir William Jones (1788): noted that Sanskrit shared many similarities with Greek, Latin
- He suggested they had a common ancestor

### Comparative Method

- Deducing genetic relations between languages by comparing cognates
  - Cognates: words from different languages that are similar in form and meaning, suggesting a common origin
- Used to reconstruct the proto-language (ancestor language)

### 'month'

#### **Related**

**English** month Dutch maand German Monat månad Swedish Welsh mis Gaelic mí mois French Spanish mes Portuguese mês Italian mese myesyats Russian minas Greek

Hindi

mahina

#### Not related

shahr Arabic (Afro-Asiatic) kuukausi Finnish (Uralic)

hilabethe Basque (Independent)

ay Turkish (Altaic)

bulan Malay (Malayo-Polynesian)

inyanga Zulu (Niger-Congo)

yue Mandarin (Sino-Tibetan)

timgalu Kannada (Dravidian)

thang Vietnamese (Austro-Asiatic)

iyanvda Cherokee (Iroquoian)

xoydesh Yiddish (Indo-European)

# 'night'

night English

nuit French

Nacht German

nicht Scots

natt Swedish

*nat* Danish

noch' Russian

*nox* Latin

nakti- Sanskrit

natë Albanian

noche Spanish

noite Portuguese

notte Italian

nit Catalan

*nótt* Icelandic

naktis Lithuanian

## Proto-Indo-European (PIE)

- The proposed parent language of all Indo-European languages
- No direct evidence for it (unwritten)
- Reconstructed from later Indo-European languages by back-tracking known sound changes
  - PIE \*wódr 'water', \*trÈi- 'three'.

### False cognates

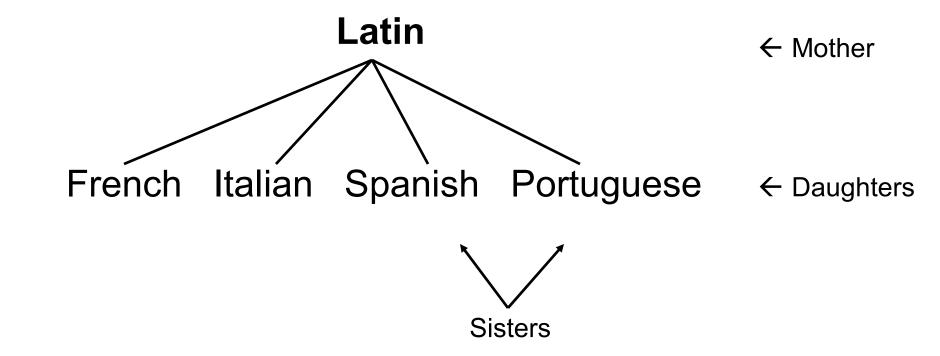
- Words that are thought to have a common origin, but which are unrelated. e.g., Latin *habere*, German *haben* 'to have'
  - German haben < PIE \*kap, 'to grasp'</p>
  - Latin habere < PIE \*ghabh, 'to give, receive'</p>

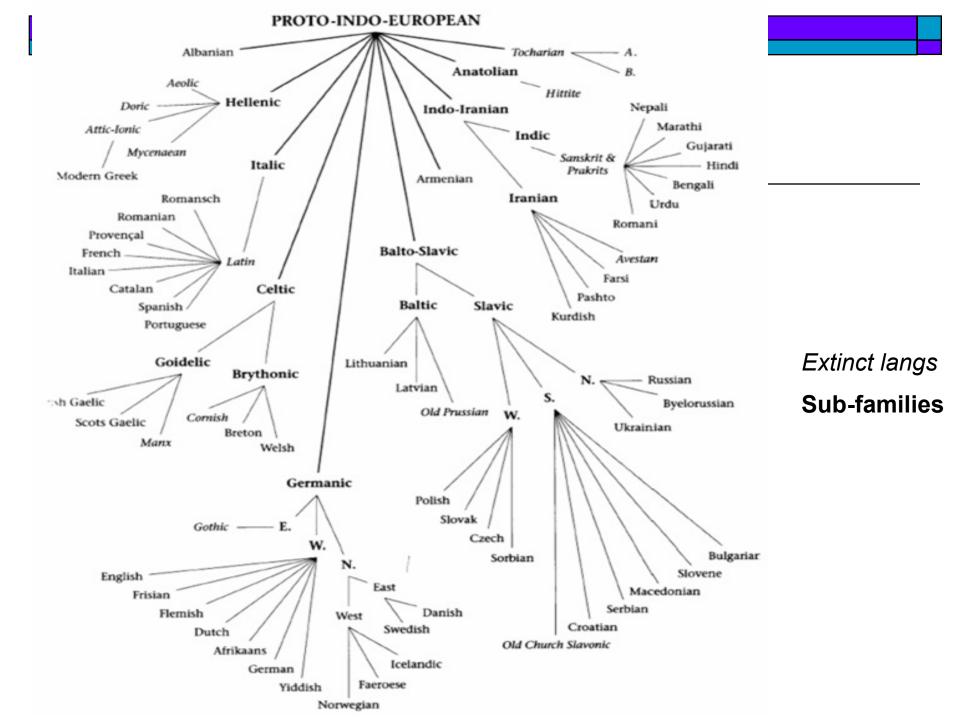
### False friends

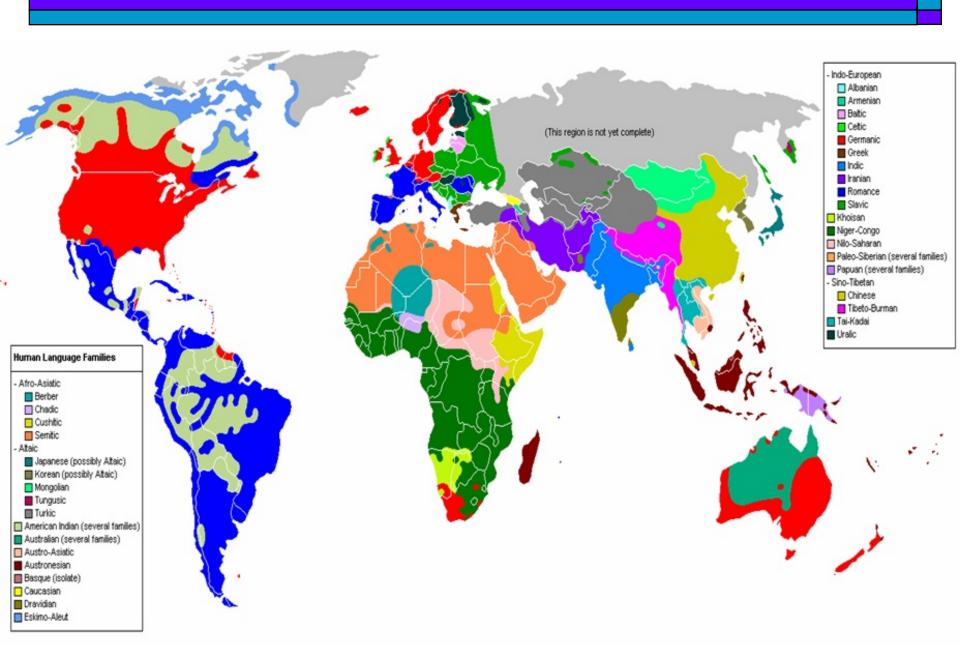
- Words that look and/or sound similar, but differ in meaning, e.g.,
  - English preservative is cognate with Russian prezervativ 'condom'
  - Spanish embarazar 'to impregnate'
- Can be related, i.e. cognates

# Family Tree Model

- Indicates genetically related languages that share common ancestor
- The higher up in the tree, the older it is
  - Mother/parent
  - Daughters
  - Sisters







# Some major Language Families

- Indo-European
- Uralic (Finnish, Hungarian, Estonian)
- Afro-Asiatic (Arabic, Hebrew)
- Niger-Congo (Swahili, Zulu)
- Sino-Tibetan (Chinese, Tibetan, Burmese)
- Altaic (Mongolic, Turkic, Japanese, Korean)
- Austronesian (Indonesian, Hawaiian)

### Language Isolates

- No known relatives
  - Basque (Spain, France)
  - Zuñi (New Mexico)
  - Ainu (Hokkaido, Kuril, Honshū, Sakhalin)
  - Burushaski (Pakistan, Kashmir)
- Isolates for known history (e.g., Basque)
- Isolates because known relatives die (e.g., Pirahã)
- Isolates become families (e.g., Japanese)

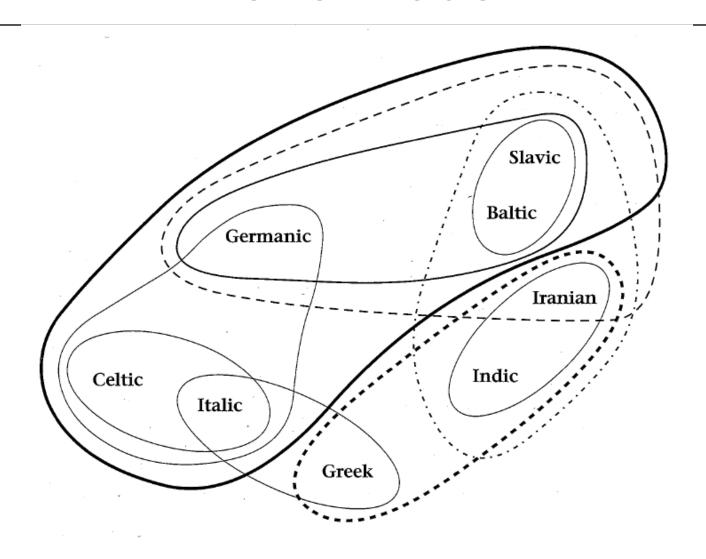
## Family Tree Model: problems

- Implies each language is separate, independent from its neighbors
  - But distinctions btw. languages are fuzzy
- Suggests new languages appear/branch off suddenly
  - But languages diverge gradually

### Wave Model

- Language changes spread like ripples in a pond
- Different points of origin
- 'Overlap' of different waves of change explains synchronic variation

### **Wave Model**



### Extinct and Endangered languages

- Today, approx. 6900 languages
- 90% spoken by < 100,000 speakers</p>
- □ 5% spoken by < 50 speakers</p>

## Estimates of projected extinction

- 516 of the world's languages are 'nearly extinct'
- 50-90% loss in coming century

#### North America:

- At first contact with Europeans, ~ 400 languages
- Currently, 208 languages

## Why languages die

- Genocide
- Socioeconomic factors
- Prevalence of dominant language
- Language suppression in education

### Should we care?

- Negative consequences are both scientific and cultural
- Cultural: impact on communities and descendants
- Scientific: data from more languages = better understanding of linguistic diversity, which in turn = better understanding of Language