Worldwide Geographical Clines of Complexity

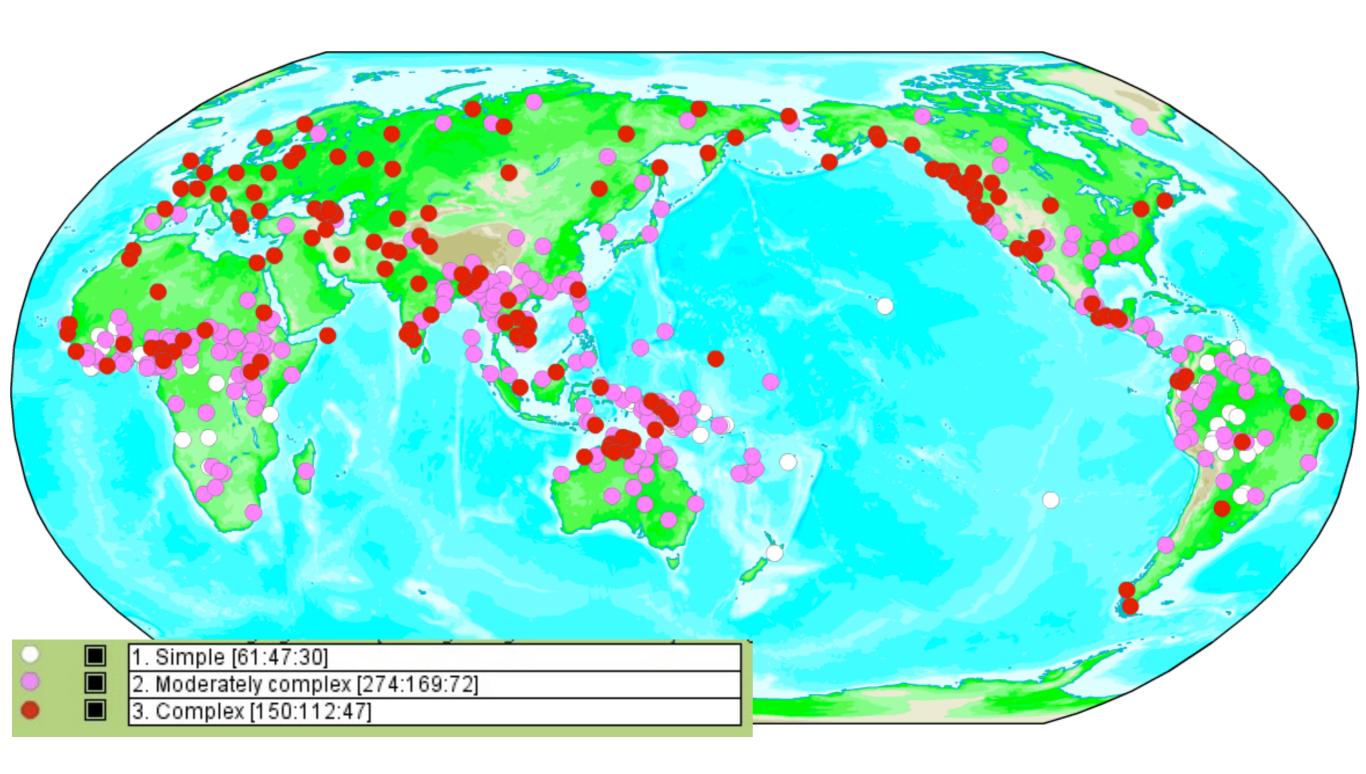
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World Atlas of Language Structures (WALS)

- 142 world maps with structural linguistic information about hundreds of languages
- Phonology, Morphology, Syntax, Lexicon
- Somewhat simplistic and at times even redundant classifications

Syllable Structure



Maddieson, Ian (2005) 'Syllable structure' in: Martin Haspelmath, Matthew S. Dryer, David Gil, & Bernard Comrie (eds.) World Atlas of Language Structures. Oxford: Oxford University Press, 54-57.



Welcome to WALS Online

The data and the texts from The World Atlas of Language Structures, published as a book with CD-ROM in 2005 by

Oxford University Press, are now freely available online.

WALS Online is a joint project of the ⊕ Max Planck Institute for Evolutionary Anthropology and the ⊕ Max Planck Digital Library. It is a separate publication, edited by Martin Haspelmath, Matthew S. Dryer, David Gil and Bernard Comrie (Munich: Max Planck Digital Library, 2008).

What is WALS?

WALS is a large database of structural (phonological, grammatical, lexical) properties of languages gathered from descriptive materials (such as reference grammars) by a team of more than 40 authors (many of them the leading authorities on the subject).

WALS consists of 141 maps with accompanying texts on diverse features (such as vowel inventory size, noun-genitive order, passive constructions, and "hand"/"arm" polysemy), each of which is the responsibility of a single author (or team of authors). Each map shows between 120 and 1370 languages, each language being represented by a symbol, and different symbols showing different values of the feature. Altogether 2,650 languages are shown on the maps, and more than 58,000 datapoints give information on features in particular languages.

WALS thus makes information on the structural diversity of the world's languages available to a large audience, including interested nonlinguists as well as linguists who would not normally read grammars of exotic languages or specialized works by comparative linguists. Although endangered languages are not particularly emphasized, they are automatically foregrounded because of the large sample of languages represented on each map, where each language (independently of its number of speakers) is shown by a single symbol.

Interactive Reference Tool (WALS program)

The World Atlas of Language Structures was published as a book with a CD-ROM in summer 2005. The CD-ROM contains the "Interactive Reference Tool (WALS program)" as a standalone application for Mac OSX, Mac OS9.2 and Windows 2000, XP written by Hans-Jörg Bibiko. To download the "Interactive Reference Tool (WALS program)" please follow the link http://www.eva.mpg.de/lingua/research/tool.php.

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Download WALS data

WALS News

Scheduled Server Downtime

by robert - May 05, 2009

To fulfill the test regulations of the Land Brandenburg, the data center where the WALS servers are hosted will have to shut ...

WALS Online not reachable

by robert - Apr 14, 2009

From April 13, 16:58 CEST until this morning, April 14, 7:46 CEST WALS Online was not reachable, due to an unplanned downtime ...

Location for Mehri updated

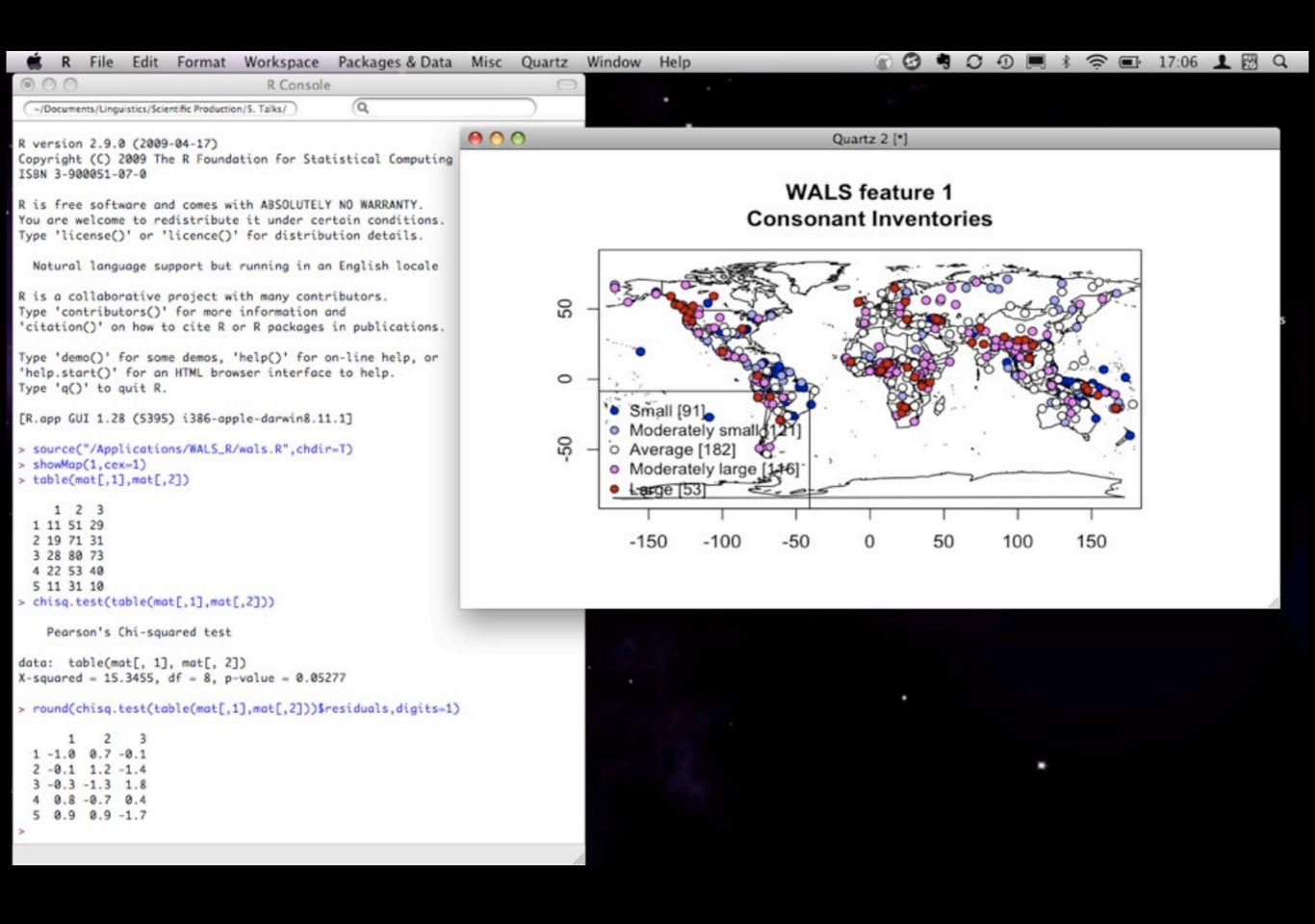
by robert - Mar 04, 2009

The geo-coordinates for Mehri have been corrected - since Mehri is spoken mostly in Yemen, it should be located there. Find the ...

Map for Chapter 141

by robert - Feb 03, 2009

Today, we got a step further in filling the gap between WALS Online and the printed edition of 2005. We incorporated data to be ...



Complexity

- Many different possible definitions
- Here: a simple and easily applicable approach
- More oppositions and strict
 structure is interpreted as more complex

Home

Features

Feature/Chapter 1: Consonant Inventories

by Ian Maddieson

This chapter consists of the map data (show map) and the chapter text.

Map Configuration

You may configure the appearance of the map using the tools below and then hit show map

Select icons for the values [help]

- Small (91 languages)
- Moderately small (121 languages)
- Average (182 languages)
- Moderately large (116 languages)
- Large (53 languages)

total: 563



Home

Features

Languages

Feature/Chapter 42: Pronominal and Adnominal Demonstratives

by Holger Diessel

This chapter consists of the map data (show map) and the chapter text.

Map Configuration

You may configure the appearance of the map using the tools below and then hit show map

Select icons for the values [help]

- Identical (143 languages)
- Different stem (37 languages)
- Different inflection (21 languages)

total: 201

Home

Features

Feature/Chapter 83: Order of Object and Verb

by Matthew S. Dryer

This chapter consists of the map data (show map) and the chapter text.

Map Configuration

You may configure the appearance of the map using the tools below and then hit show map

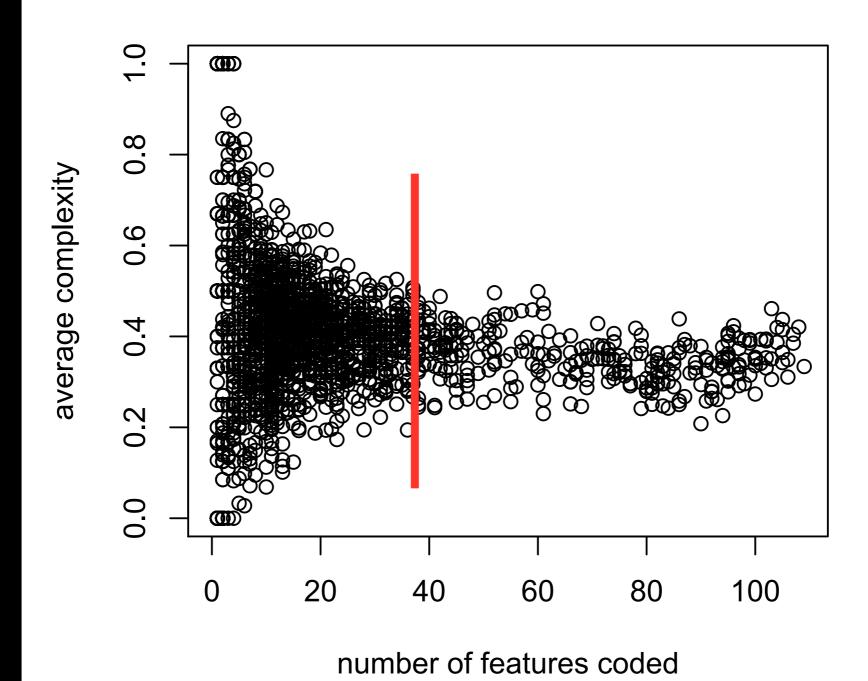
Select icons for the values [help]

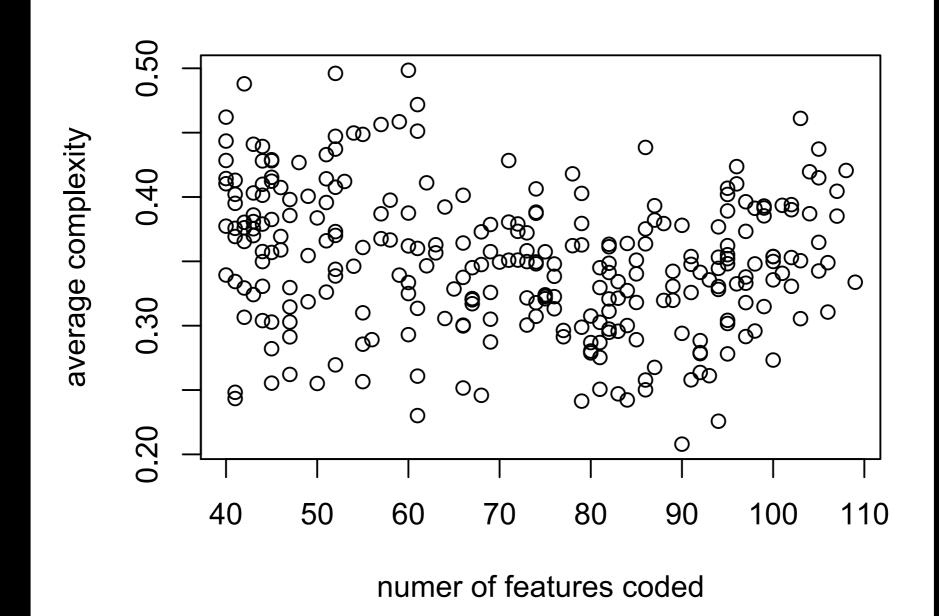
- OV (640 languages)
- O (640 languages)
- No dominant order (90 languages)

total: 1370

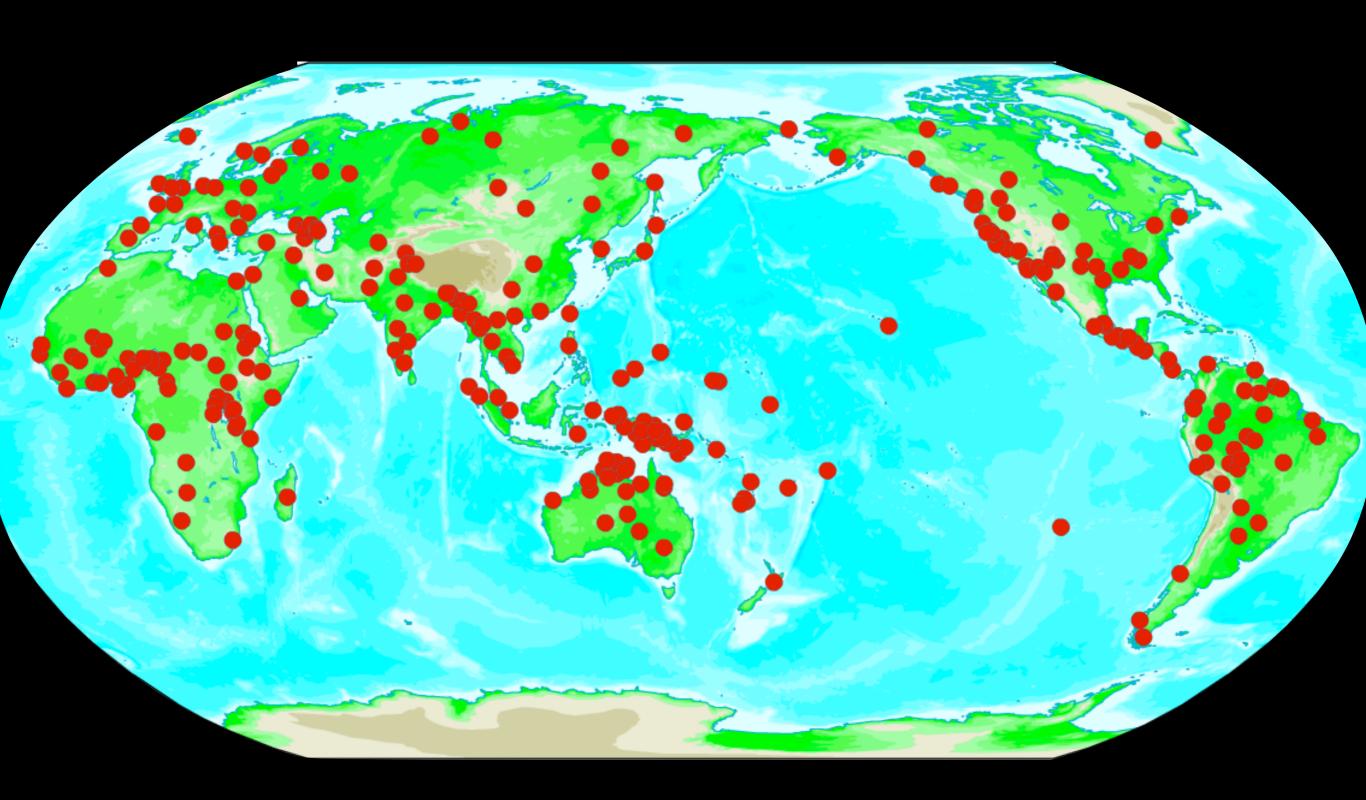
Average Complexity

- Average complexity is easily computed for each language in WALS
- However:WALS is notoriously incomplete
- An ad-hoc selection of languages is necessary



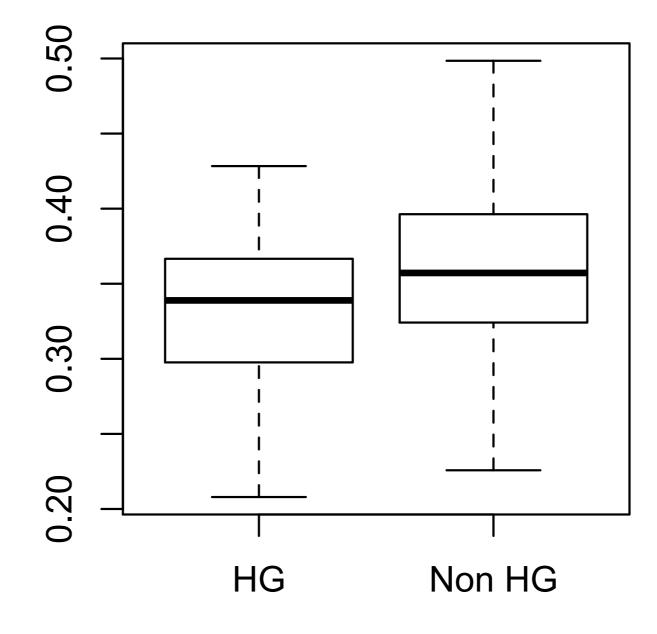


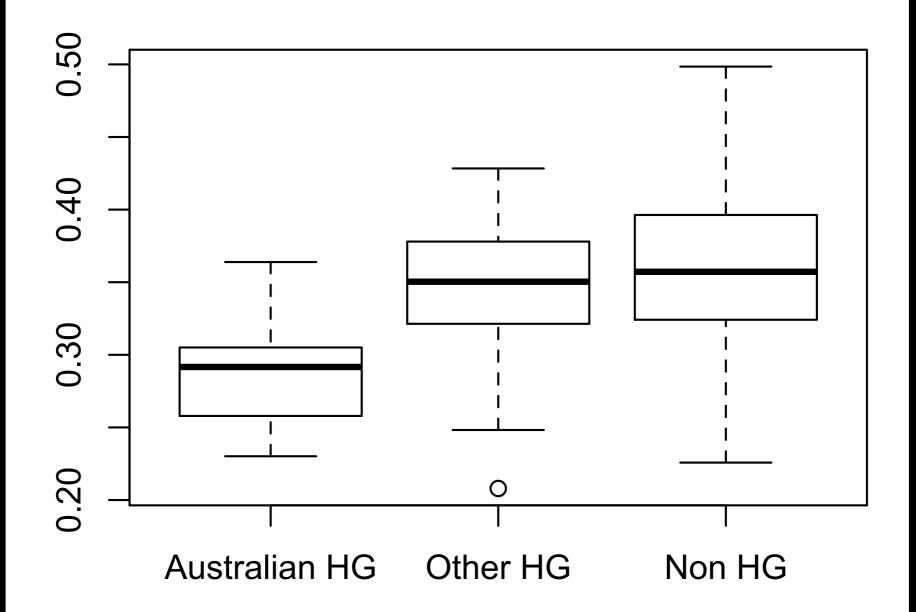
280 language sample



Subsistence

- Is there any relation between the complexity of a language and cultural factors?
- Specifically here: is there a correlation with hunter-gatherer lifestyle?
- List of languages spoken by hunter-gatherer communities as prepared by Güldemann et al. (in press)





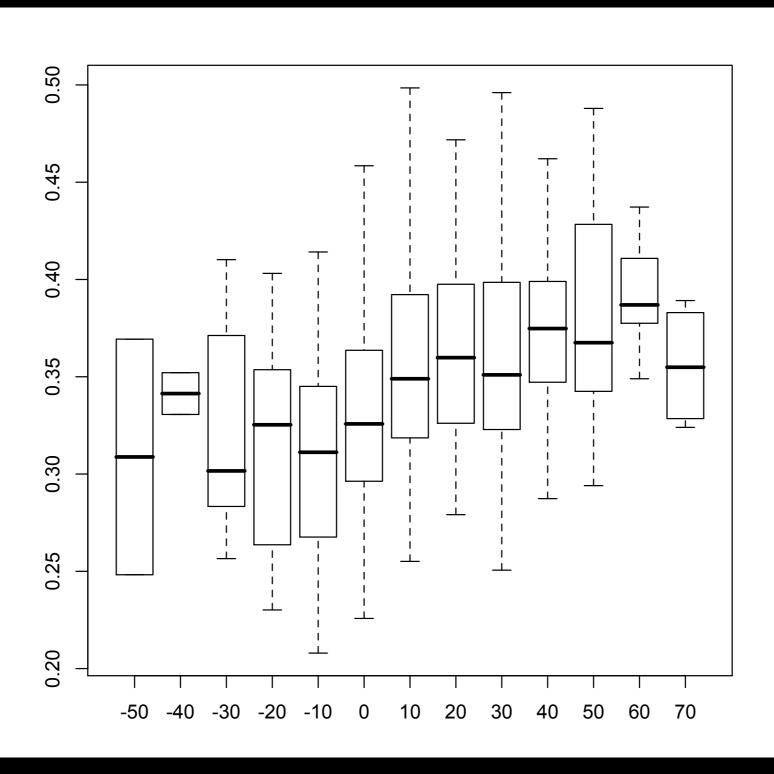
Preferences of huntergatherer languages

- No dominant constituent order
- No adpositions
- Subject clitics on variable hosts
- Initial interrogatives

Geography

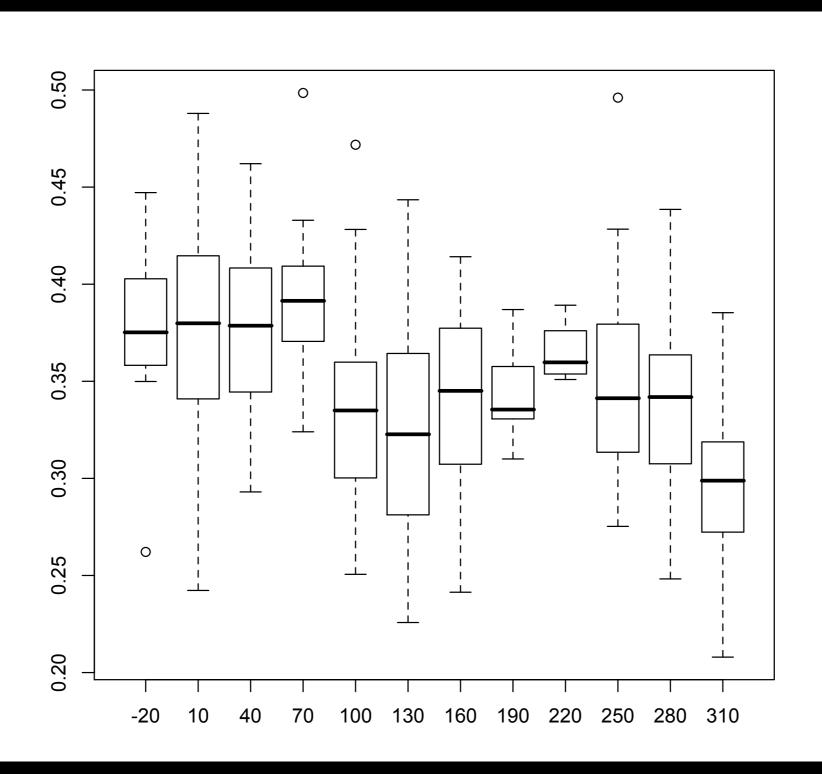
- Is there any relation between the complexity of a language and geography?
- The study of geographical distribution of linguistic variation is still in its infancy
- The following notes are thus somewhat preliminary

Latitude



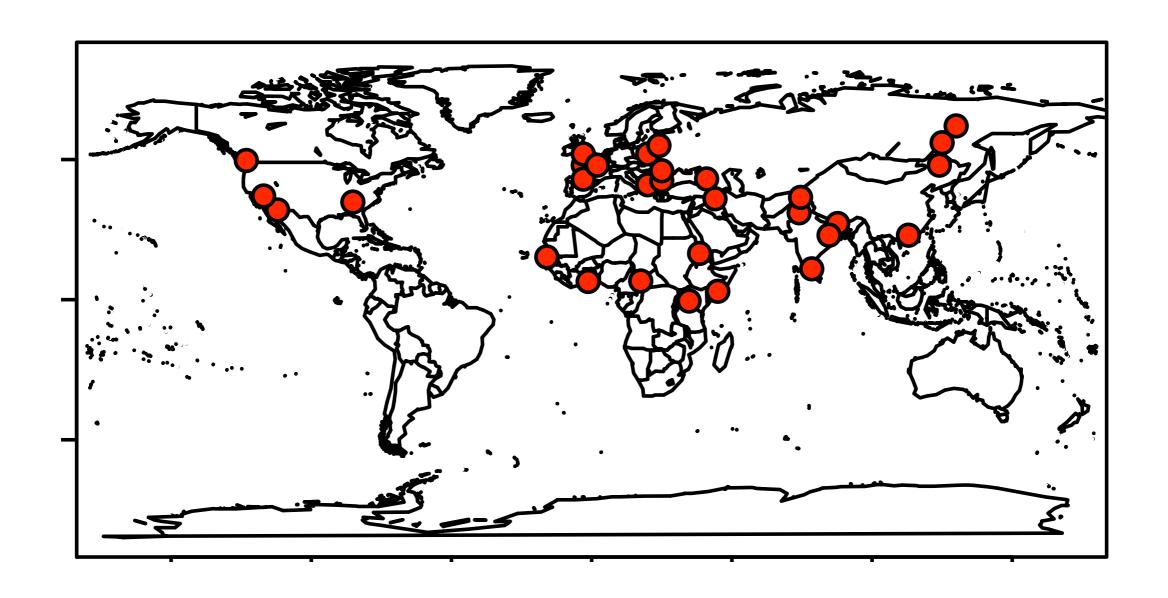
South ←→ North

Longitude

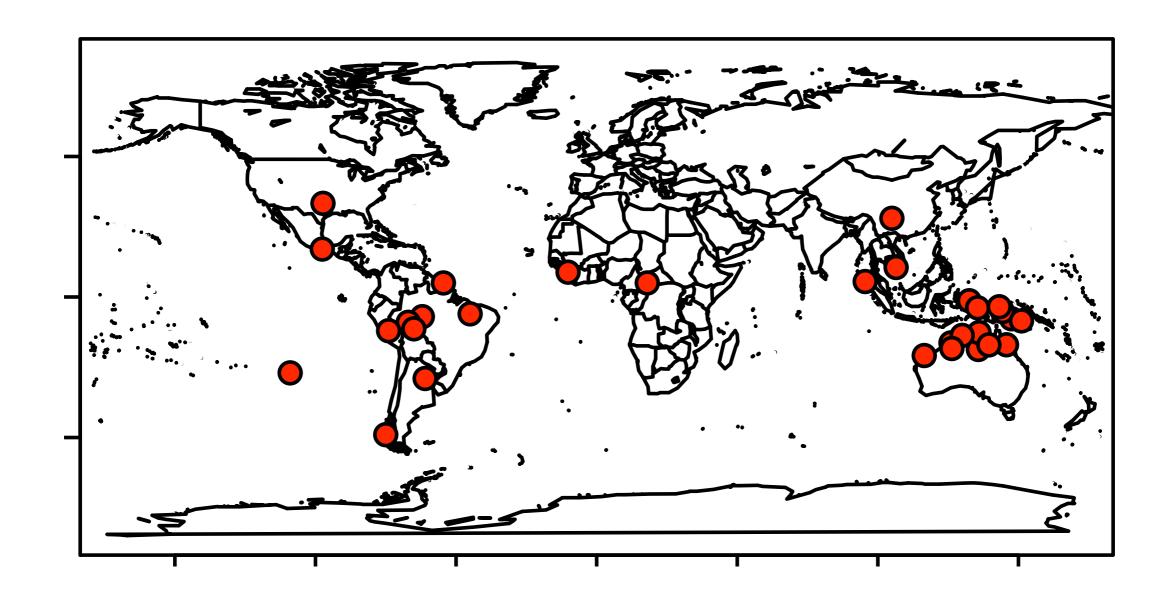


West ←→ East

Most Complex

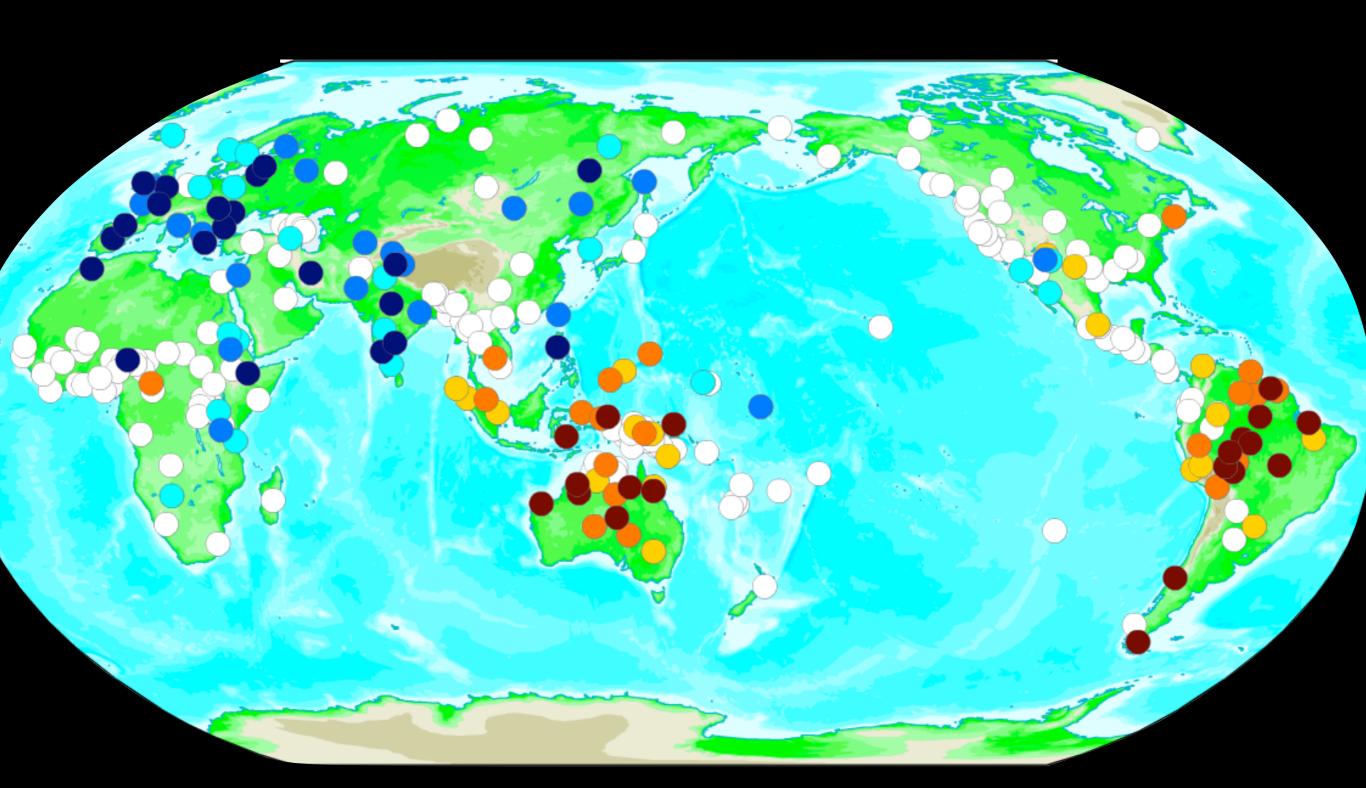


Least Complex



Smoothing Geographical Distributions

- Language variation is geographically rather haphazardly distributed
- To show general trends, take for each language the average of the closest languages
- here: average of the language itself and it's two closest neighbours in the sample



What does this mean?

- Language with low complexity are found at the fringes of human settlement on the globe: this might be a sign on old language structure
- Languages with low complexity are the those farthest away from Europe: this indicates the eurocentricity of the feature selection in WALS (and in linguistics in general)