







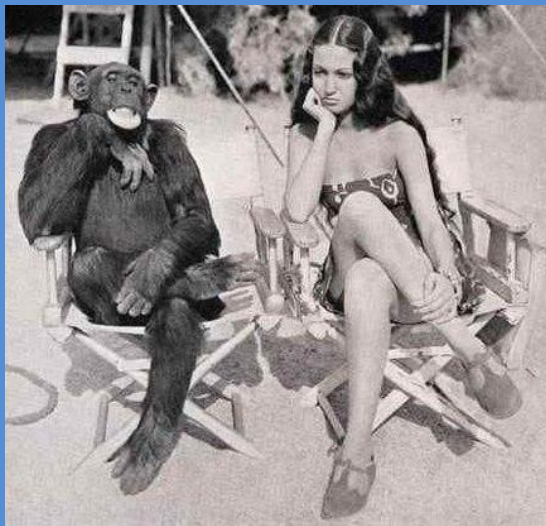
## Homo erectus



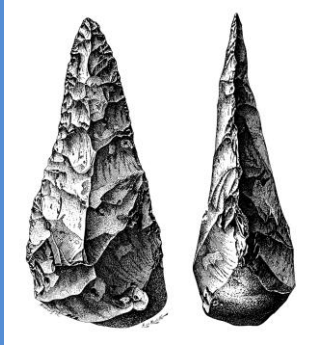
## Neanderthals



**“monkey see, monkey (mostly cannot) do”**

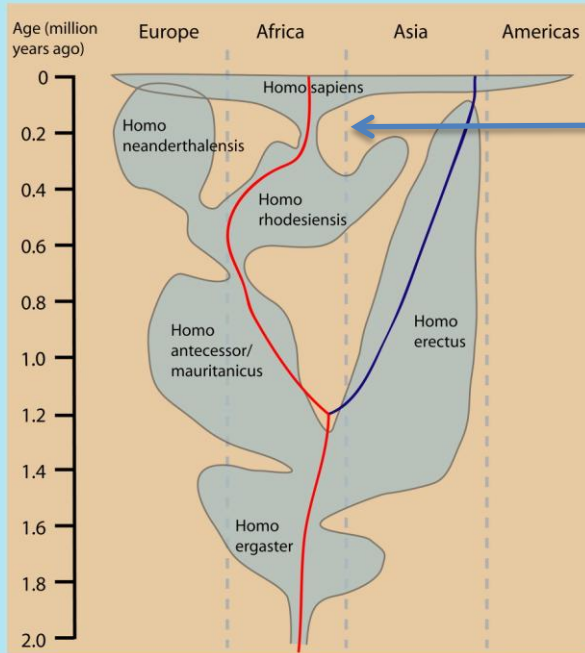


# Social learning → cumulative cultural evolution





## The Descent of the Homo lineage from 2 MYA





**The World's 7000-8000 extant languages**



# New Guinea (New Guinea and Papua New Guinea)



New Guinea 300,000 square miles 850-1000 languages    Texas 270,000 sq. miles 1-2 languages  
China 3.7 million sq miles ~ 10 languages (12 times larger than New Guinea)

# PAPUA NEW GUINEA

## MAP 4

NOTES: 1. BRACKETS SHOW THE NUMBER OF TIMES A LANGUAGE'S NUMBER APPEARS ON MAP, IF MORE THAN ONCE.  
2. WHITE AREAS ARE VIRTUALLY UNINHABITED.

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### LANGUAGE FAMILIES

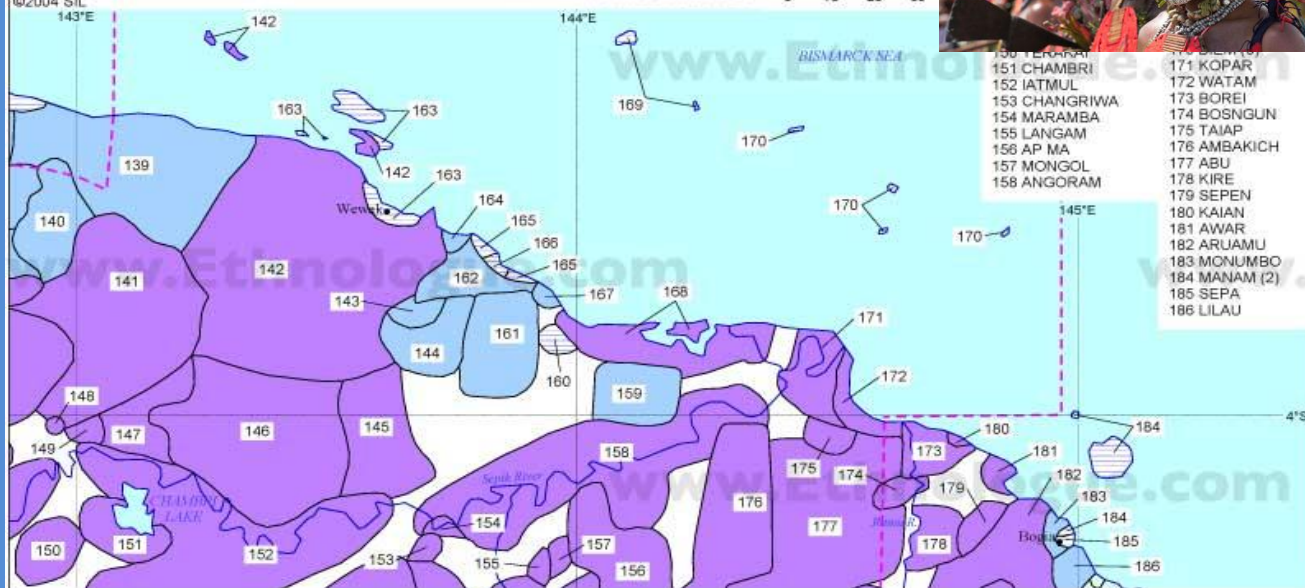
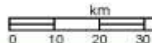
AUSTRONESIAN

TORRICELLI

SEPIK-RAMU

TRANS-NEW GUINEA

PROVINCE BOUNDARIES

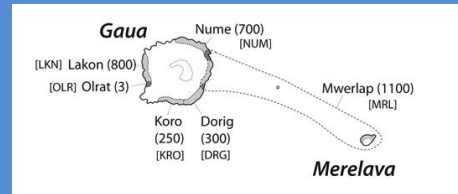


- |               |               |
|---------------|---------------|
| 150 TERARAI   | 171 KOPAR     |
| 151 CHAMBRI   | 172 WATAM     |
| 152 IATMUL    | 173 BOREI     |
| 153 CHANGRIWA | 174 BOSNGUN   |
| 154 MARAMBA   | 175 TAIAP     |
| 155 LANGAM    | 176 AMBAKICH  |
| 156 AP MA     | 177 ABU       |
| 157 MONGOL    | 178 KIRE      |
| 158 ANGORAM   | 179 SEPEN     |
|               | 180 KAIAN     |
|               | 181 AWAR      |
|               | 182 ARUAMU    |
|               | 183 MONUMBO   |
|               | 184 MANAM (2) |
|               | 185 SEPA      |
|               | 186 LILAU     |

# The Island of Gaua, Vanuatu



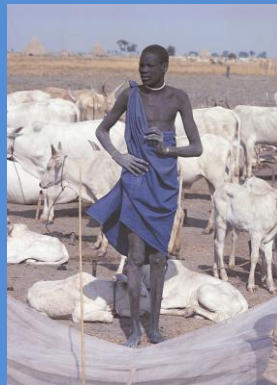
**12 miles in diameter, active volcano**  
**five distinct languages spoken**



Inuit



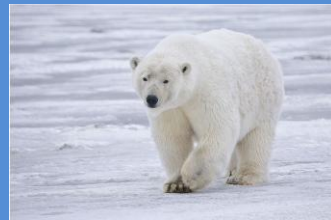
Tibetan high-altitude



Dinka male average height  
6'



Polynesian long-distance sailing



















## BBC NEWS: Man in underwear crawls over frozen river to rescue dog



River Stour, Essex 11 February, 2012



## **11 December 2011   kidney donor and recipient meet**

[http://www.msnbc.msn.com/id/34435481/ns/health-health\\_care/t/largest-ever-kidney-swap-donors-patients-meet/#.T0dxacovBT4](http://www.msnbc.msn.com/id/34435481/ns/health-health_care/t/largest-ever-kidney-swap-donors-patients-meet/#.T0dxacovBT4)





**Omaha Beach D-Day, 1944 Robert Capa**



**Vietnamese monk self-immolation 1963**



**Soldiers WW1**



## General Nguyen Ngoc Loan Executing a Viet Cong prisoner, Vietnam, 1968



June 2008 Sainsbury's south-west London







# The Modern World





## The 80,000 year triumph of cooperation



**Bands→Tribes→chiefdoms→city states→nation states→supra-national organisations**