

$10^{10}$

$10^{10}$

13.7B - 3B

Big Bang → And before?

Physics → Creation of particles, energy, ~~and~~ forces, esp. gravity/weak

Gravity / creation of galaxies / stars

~~2<sup>nd</sup> generation solar system Sun~~

Death of 1<sup>st</sup> generation stars → Heavier elements. Chemistry. Earth.

Beginnings of life (proteins, molecules)?

$10^9$

Billions

$\approx 3B - 300M$

~~The~~ Continued change of Earth (& Sun?)

~~Chemistry~~ / Life

Sexual Reproduction?

Geology  $\rightarrow$  Drifting of continents

$10^8$

100 Millions

$\approx 300M - 30M$

Sexual Reproduction?

Active evolution of vertebrates, inc. mammals

$10^7$

10 Millions

$\approx 30M - 3M$

Primates / Proto-humans

$10^6$

Millions

$\approx 3M - 300,000$

Evolution of ~~humans~~ proto-humans & their migration  
Other forms of animals (plants) around world.  
(Ice Ages?)  
Fire

$10^5$

100 Thousands

300K - 30K

Modern humans → Hunter/gatherers ("cavemen")  $\approx$  200,000 y.a.

1<sup>st</sup> humans in Americas

Inventions? ~~Fire?~~ ~~Wheel?~~ Language? Tools? Music?

Earliest "human traditions" eg art / ~~community~~ clothing etc.

Tribal warfare? Slavery?

$10^4$

10 Thousands

30K - 3K

(1,000 BC)

Agriculture

Settlements

~~Civilize~~

1<sup>st</sup> civilizations / ~~the~~ known individuals

Mesopotamian, Chinese, ~~the~~ Egyptian, Greek, Mayan

Mythology / Religion, including some major world religions  
~~the~~ Judaism, Asian religions

~~Warfare~~

1<sup>st</sup> interaction of civilizations → war, empire, ~~the~~ politics

$10^3$

Thousands

3,000 - 300

1,000 BC - 1700

Classic civilizations & growth of empires, culminating with England,  
~~Dark Ages~~ Increased globalism.

Christianity

Dark Ages

Islam / Crusades

Middle Ages

Renaissance

Age of Kings / Feudalism

Europe discovers America

~~Earliest~~ Earliest universities



$10^2$        ~~$10^3$~~   
 $\approx 300 - 30$       ~~Thousands~~  
1700 - ~~1980~~       $\approx \frac{3,000 - 300}{1980}$   
1980      ~~(1,000 BC =~~

Full globalism  
Age of enlightenment / science  
Industrial revolution / Transportation / Mass migration / Capitalism  
Human population explodes  $\rightarrow$  interaction with environment  
Ancient traditions questioned  
Religion, Feminism, Race relations / slavery, sexual / family norms.  
United States  
World Wars / Modern Europe / Cold War / Korea, Vietnam, etc.  
Technological revolution / Computers Africa  
~~Growth of M.~~  
Empires retreat; ~~new nations formed fr~~  
Africa & Americas come on their own  
Youth culture / Sexual revolution / Rock music  
Movies / Radio / TV / Recordings etc.

10'

≈ 30 - 3

(1978 - 2005)

Internet / www

Age of multi-national corporations / "economic imperialism"

~~Growth~~ Political turbulence in Africa

E.U. / Development of China & India

9/11/01 & War on Terror / Iraq

Age of specialists rather than "Renaissance Men"

Increased economic risk-sharing by households rather than

Decline of middle class

employers

Reality TV

10°

2005 - Present

Growth of self-broadcasting online

Iraq war

Housing market / hedge funds

2008 election

Beijing Olympics