

## Universe

14 Ga	13 Ga	12	11	10 Ga	9	8	7	6	5 Ga	4	3	2	1 Ga	
										Hadean	3.8 Archean	2.5 Proterozoic	Phaner	
13.5										4.6 Earth	4 Life Proka.	2.5 Oxygen	1.2 Sex	0.5 Vert.
Big Bang														

## Vertebrate Life

500 Ma			400 Ma			300 Ma			200 Ma			100 Ma	65.6 Ma	4
Camb	Ordovian	Silurian	Devonian	Carboniferous	Permian	Triassic	Jurassic	Cretaceous	Paleog.	Neogen				
					Pangaea		Dinosaurs							

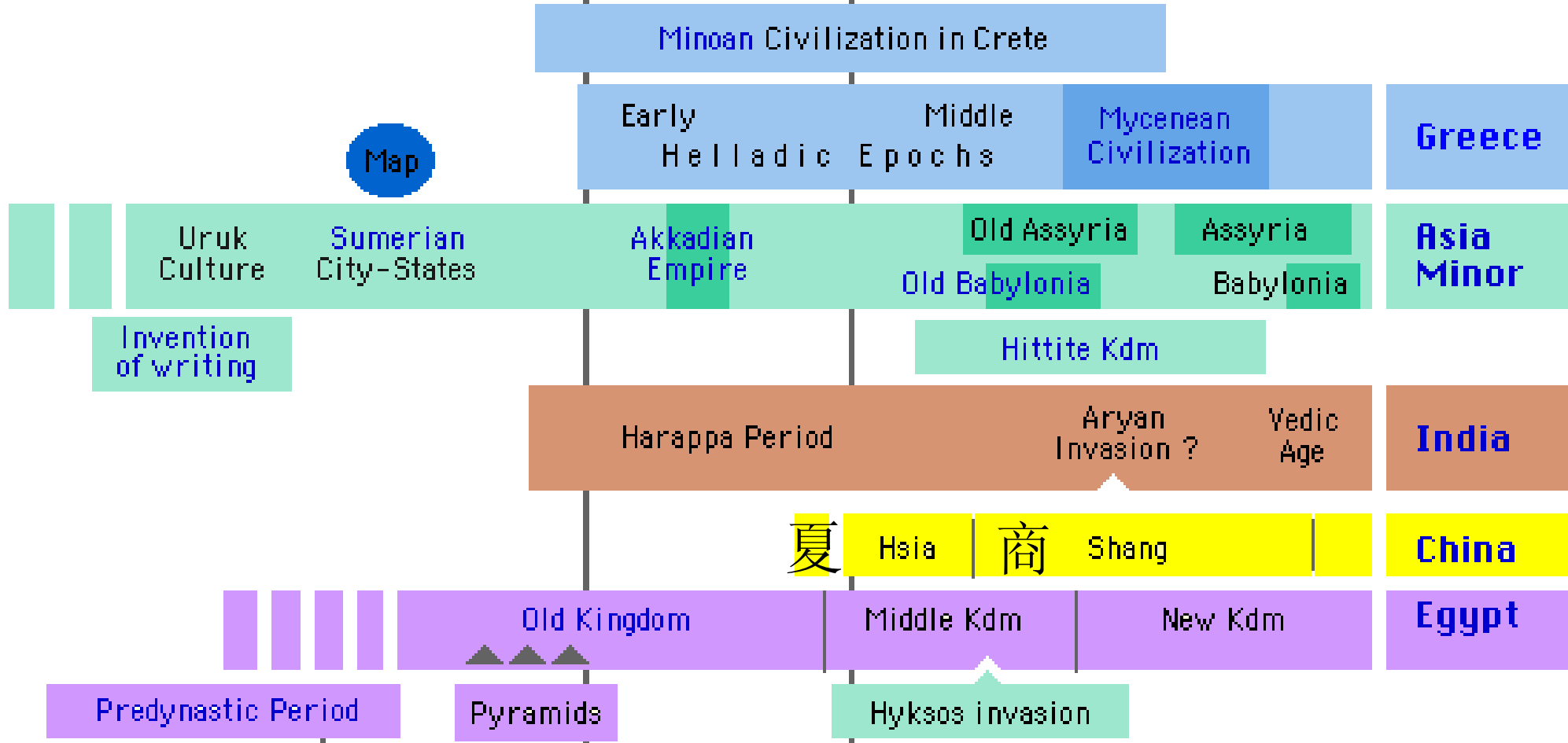
## Human Species & Hominids

4 Ma	3.5 Ma	3 Ma	2.5 Ma	2 Ma	1.5 Ma	1 Ma	0.5 Ma	0.15
			2.5 Homo Habilis	?? Tool	1.8 Homo Erectus	1.5 Fire		0.5 H. antecessor
								Neanderthal
3.6 Australopithicus afarensis			Australopithicus africanus			Australopithicus robustus		

## Modern Man

150 k	140 k	130 k	120 k	110 k	100 k	90 k	80 k	70 k	60 k	50 k	40 k	30 k	20 k	10 k	0	
				Ice age		Ice age		Ice age		Ice age						
Homo Sapiens Sapiens (modern man)							Cloth	75 k Toba eruption	Modern man in €	Cave painting	Cro-Magnon	Agri.	Civ.	2 000		
Earliest findings in Africa																25 k Neanderthal extinct

35 000	30 000	25 000	20 000	15 000	10 000	5 000	0						
Upper Palaeolithic							Neolithic	Bronze		2 000			
Aurignacian culture in €								3 700					



Invention of writing

Harappa Period

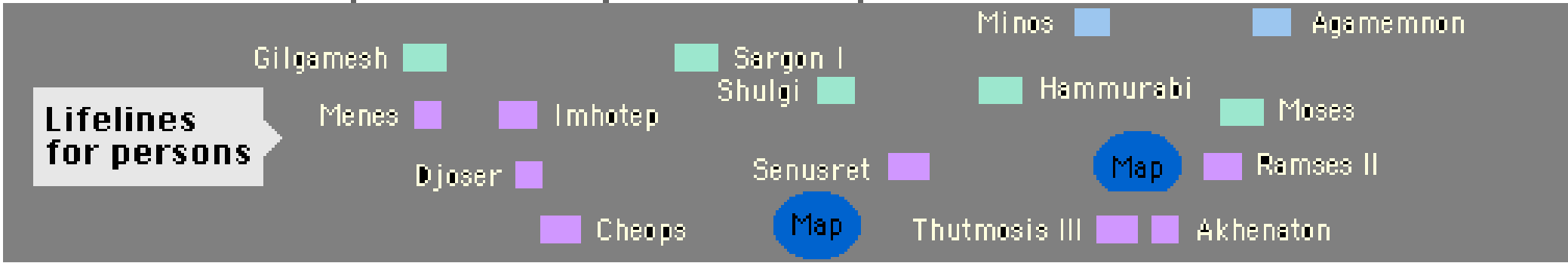
夏

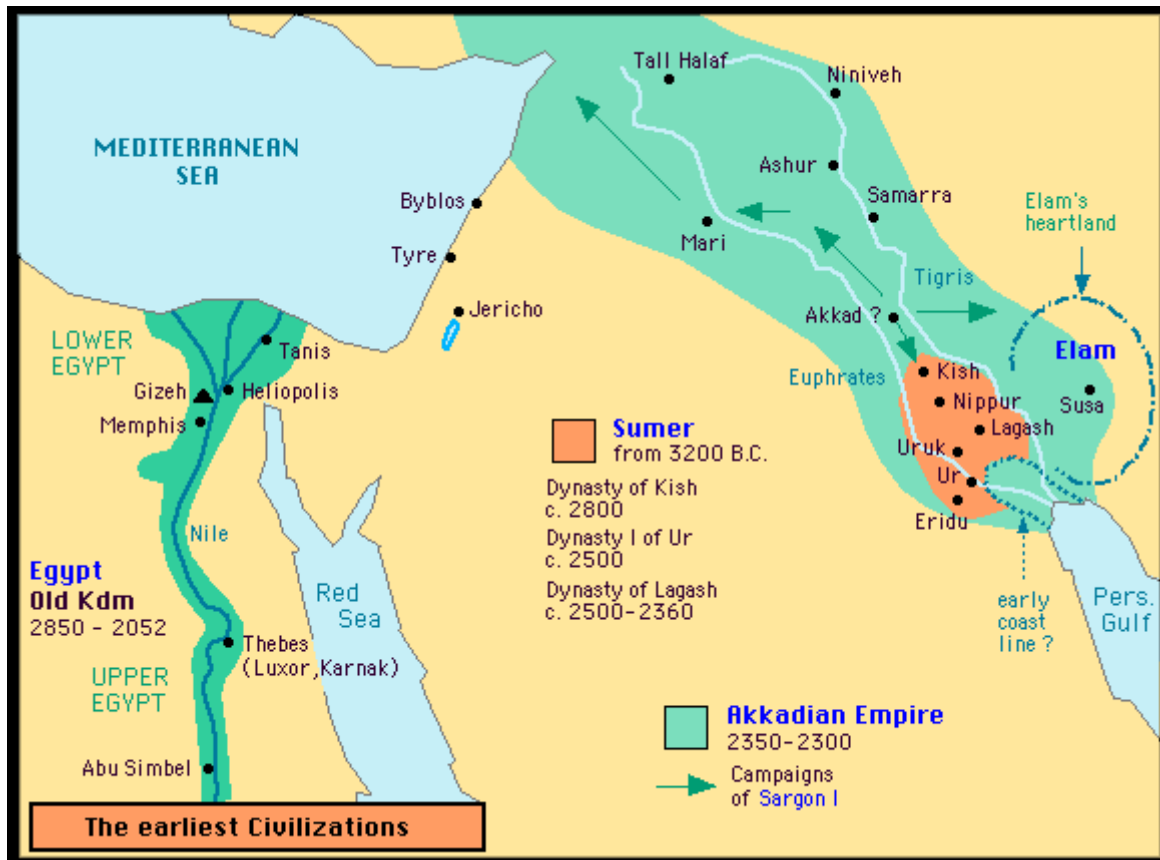
商

Predynastic Period

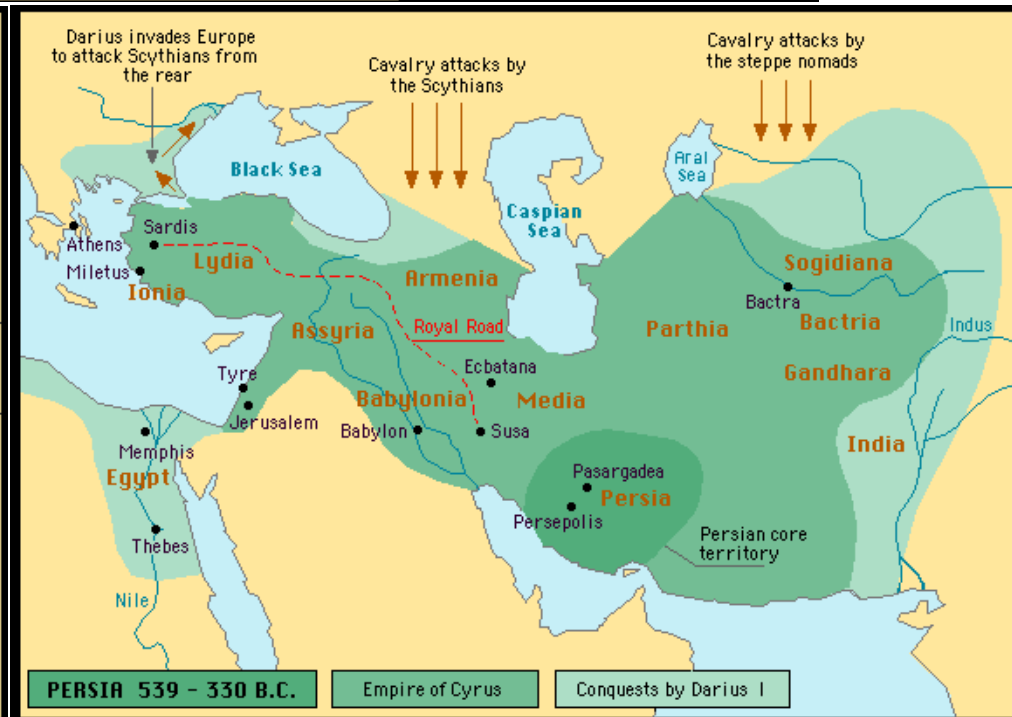
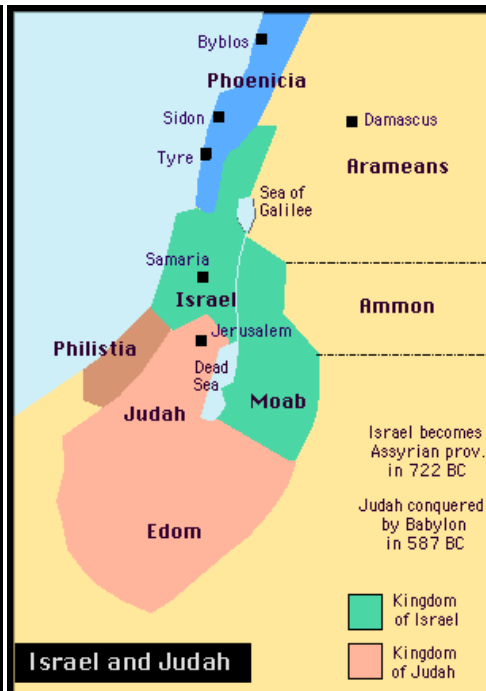
Pyramids

Hyksos invasion



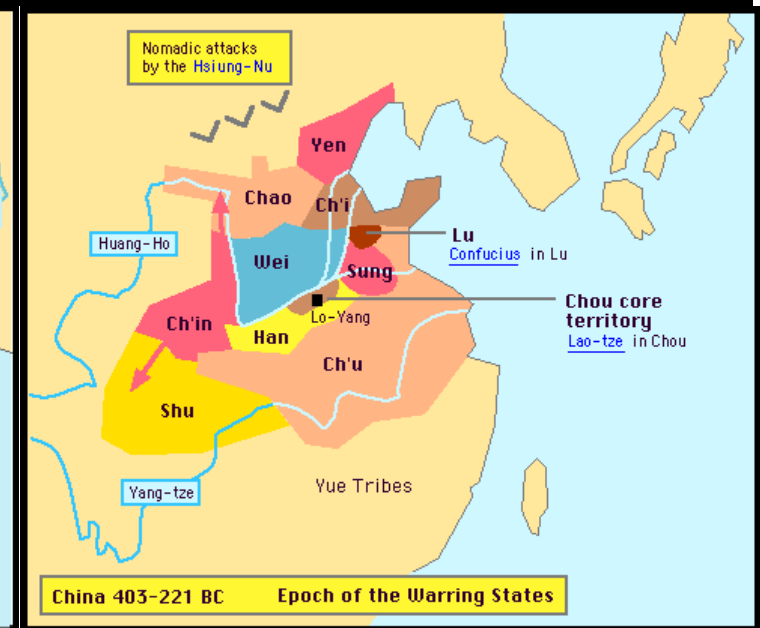
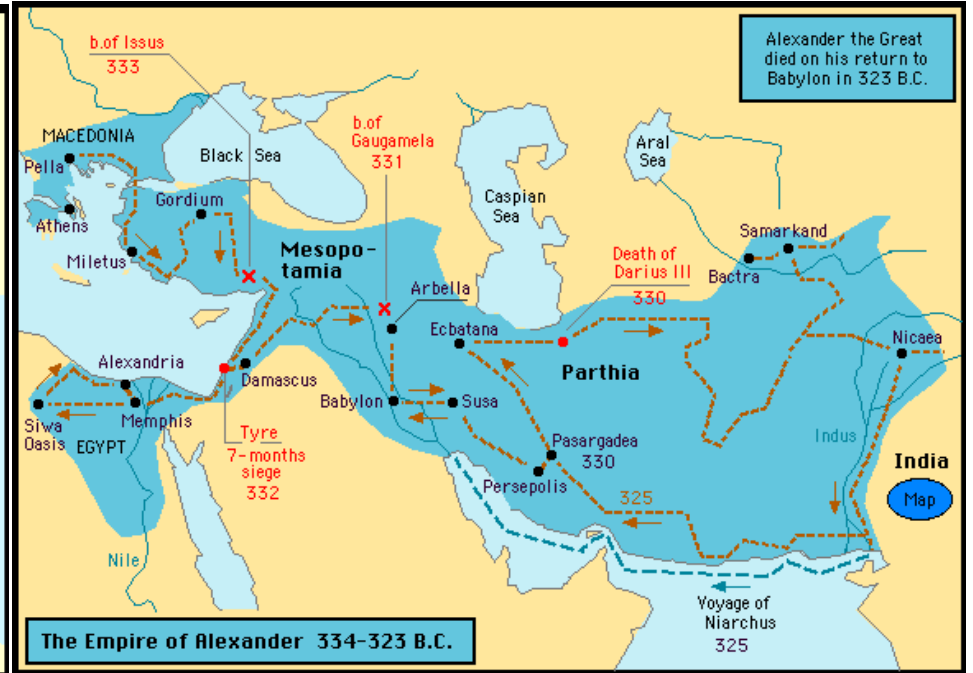
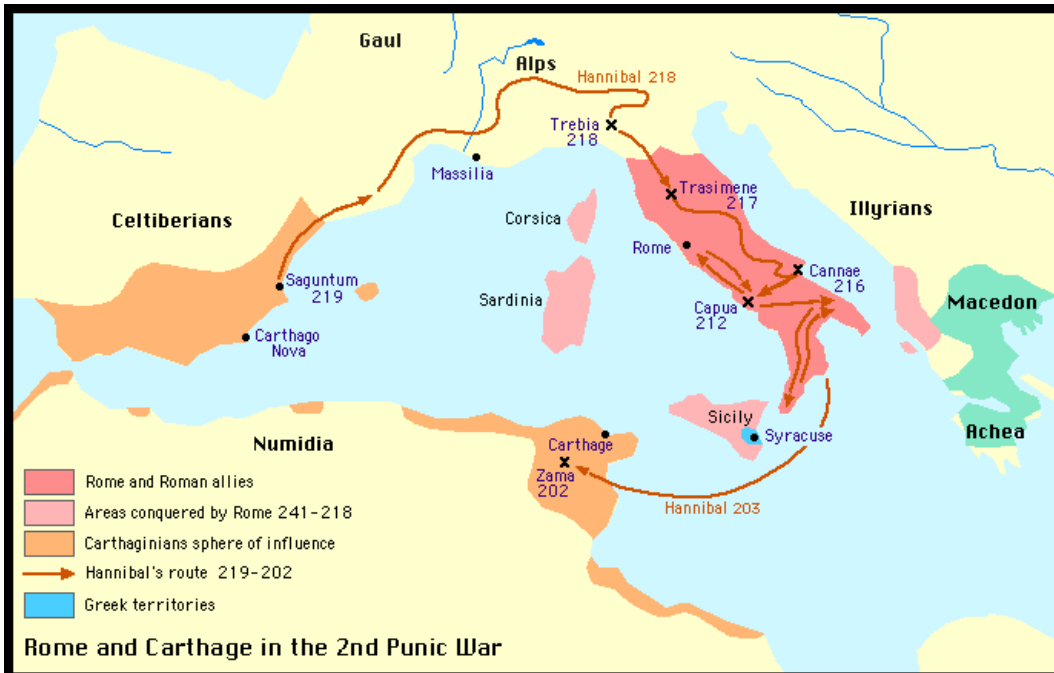


<b>America</b>	Peru : Chavin and Paracas cultures	Mexico : Olmec culture at its peak	Olmec ceremonial center at La Venta	La Venta destroyed by violence		
<b>Italy</b>	Villanova culture by Italic peoples (Iron Age)	Etruscan civilization in Italy	Legendary reign of seven kings over Rome	Etruscan league of twelve cities	Roman Republic evolves	
<b>Europe</b>	Late Bronze Age	Druids in Gaul and Britain	Celtic tribes in Gaul ( Early Iron Age )	Scythian tribes in Russia		
<b>Greece</b>	Dorian migration Greek settlements in Ionia (Miletus)	Growth of Greek city states (Polis)	<b>Greek Colonization</b> (Magna Graecia) Iliad & Odyssey composed Olympic Games	Rise of Sparta Messenian War Republic founded in Athens	Tyranny of Corinth Reform of Dracon Law Code of Solon Tyranny of Peisistratus Persian Wars Reform of Cleisthenes <b>Athenian Empire</b> Classical Age	
<b>Asia Minor</b>	Semitic-speaking Arameans from Arabia rule over Mesopotamia	<b>NEW ASSYRIAN EMPIRE</b> Impalement used to subject conquered peoples ( cap. Niniveh )	<b>MEDIA</b> ( cap. Ecbatana )	<b>PERSIA</b> (cap. Persepolis) The Persian empire was the first major Indo-European power	Persia conquers Media	
	<b>Phoenicia</b> ( cap.Tyre ) Control of Mediterranean trade	Carthage founded in N'Africa	Assyrian world domination Conquests of Babylon, Syria and Palestine	<b>BABYLONIA</b> (New Babylonian Empire)	Jews in Babyl. captivity	
	<b>Hebrews</b> King David unites Judah and Israel	Kdm divided <b>Israel</b> ( cap. Samaria ) <b>Judah</b> (cap. Jerusalem)	Elijah and Elisha Isaiah appears	Judah pays tribute to Assyria	Greek Campaigns	
<b>Egypt</b>	<b>The New Kdm</b>	The declining kdm split into Middle Egypt ruled by priests at Thebes and into Lower Egypt dominated by Lybians	Egypt ruled by Nubia	<b>Psamtik</b> frees Egypt from foreign rule Egypt becomes a sea power	Egypt becomes part of the Persian empire	
	-1000	-900	-800	-700	-600	-500
<b>India</b>	<b>Rig Veda</b> evolves (from ca.1500 BC)	<b>Caste</b> system evolves Aryan expansion into Ganges area	<b>Epic Age</b> The two Epics the 'Mahabharata' and the 'Ramayana' relate to events of the epic age	<b>Upanishades</b> and Brahmanas composed	Republics evolve along the Himalayas	N'west India part of Persian emp. King <b>Bimbisara</b> of Magadha dominates the Ganges area
<b>China</b>	▶ to text Chou 周 The kings land surrounded by small feudal states. Central power could not expand, thus vassalls grew strong & independent.	<b>Western C H O U</b> ( cap. Hao )	A Barbarian attack overwhelmed the old capital Hao and central authority declined	<b>Eastern C H O U</b> ( cap. Lo-yang )	<b>Spring and Autumn period</b>	Division of China into separate states <b>Age of philosophers</b>
<b>Africa</b>	Some priests from Egypt migrate to Nubia (Sudan) where they establish a theocratic state	Kush kdm conquers Nubia	Egyptian culture survives in the Kush kdm (cap. Meroe) in the Sudan			



<b>America</b>	Peru : Moche culture (northern coast)	Mexico : Olmec center La Venta destroyed by violence	Peru : Nazca culture along the south coast	Tiahuanaco, ceremonial center evolves		
<b>Europe</b>	Celtic La Tene culture in Europe	Celtic incursions into Italy	Celtic tribes settle in Britain	Germanic tribes clash with Celts		
<b>Rome</b>	<b>Roman Republic</b> Treaty betw. Roman Republic and Carthage (1st public Rom.treaty)	Gauls' sack Rome	Romans struggle for domination over Italy	1st Punic War 2nd Punic War 3rd		
<b>Greece</b>	Reform of Cleisthenes Persian Wars Classical Age Pelopon.War	<b>G r e e c e</b> <b>Athenian Empire</b> Hegemony of Sparta	Rise of Macedonia Alexander's conquests	<b>Hellenism</b> Greek culture spreads to Middle East in wake of Alexander's army		
			Rom. expansion around the Mediterranean Macedonia Roman Prov. in 148 B.C.	Teutonic invasion Slave Revolt Conquest of Gaul Empire of Augustus Julio-Claudians Conquest of southern Britain		
<b>Middle East</b>	<b>P E R S I A</b> (cap. Persepolis) The Persian empire was the first major Indo-European power. Royal roads connected empire Zoroastrianism state doctrine	Empire of Alexander (Asia Minor)	Antigonides (Macedonia) Kdm of Pergamum Parni invade Persia from the North and establish the Parthian kingdom (cap. Ctesiphon)	Roman Province Macedonia Roman Provinces in Asia Minor Jesus crucified		
<b>Egypt</b>	Greek Campaigns Egypt part of Persian empire	Diadochi Wars Ptolemies (Egypt)	Great age of Alexandria	Roman Province Egypt		
	-500	-400	-300	-200	-100	B.C. 1 A.D.
<b>India</b>	N'west India (Gandhara, cap.Taxila) part of the Persian empire King Bimbisara of Magadha dominates the Ganges area	Rule of the Nine Nandas over Magadha	<b>M a u r y a</b> (cap.Pataliputra) King Ashoka First Indian empire	Indo-Greek kdm of Bactria (N'west India) Decline of the Mauryas	Yueh-chi from Central Asia conquer Bactria The Brahmanic Shunga Kings inherit part of the Maurya emp. The Shatavahana kdm establ.link betw. South & N'India	Bhagavadgita composed
<b>China</b>	<b>周 Eastern Chou</b> (cap. Lo-yang) Division of China into separate states. Chou King still uses celestial title but local rulers fail to pay homage	<b>Epoch of the Warring States</b>	<b>Ch'in Empire</b> The militaristic state of Ch'in unifies China for the first time	<b>汉 Western HAN</b> (cap. Chang-an) Confucianism state doctrine Silk road links China and Europe Hunnish intrusions Wu-ti expands the empire	<b>H A N Eastern</b> Wang Mang	
<b>Japan</b>	Jomon neolithic culture in Japan		Yayoi culture in Kyushu	Chinese influence spreads to Japan from Korea		
<b>Africa</b>	Egyptian culture survives in the Kush kdm (cap. Meroe) in the Sudan ( Nok culture )			Influenced from southern Arabia the kdm of Axum evolves in Abyssinia		





<b>Viet.</b>	Semi-legendary HỒng Bằng dynasty, founded by Hùng Vường in 2879 BC...	蜀 Thục 赵 Triệu dynasty	1 <sup>st</sup> Chinese domination
--------------	---	------------------------	------------------------------------



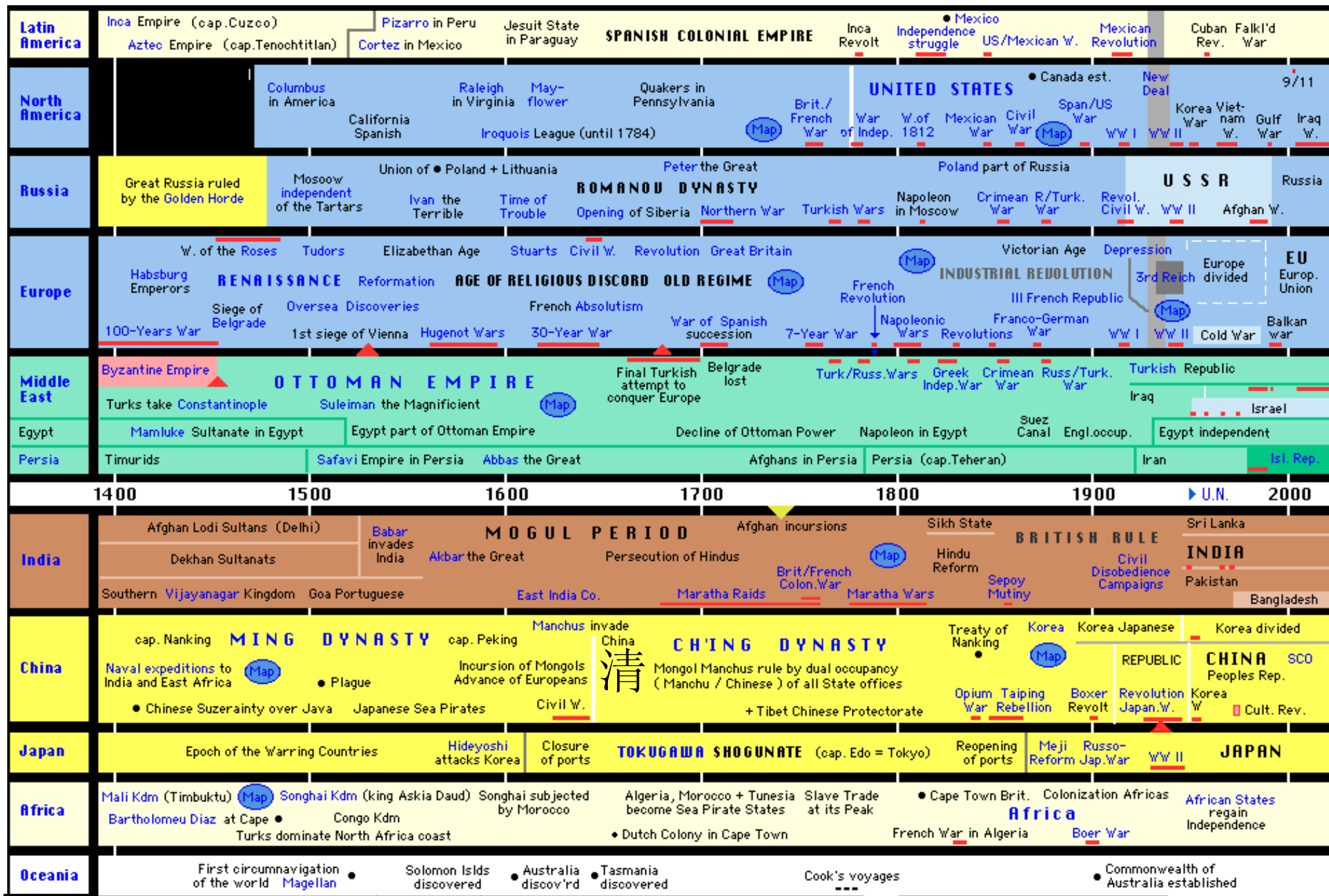
<b>America</b>	Peru : Tiahuanaco, ceremonial center (Lake Titicaca) evolves	Mochica culture (northern coast)	Paracas Necropolis and Nazca culture (southern coast)
	City of Teotihuacan (Valley of Mexico) emerges	Early <b>Maya</b> period	Maya Empire evolves in city states ruled by priestly hierarchies
<b>Europe</b>	b.of Teutoburg Forest	Teutonic tribes inhabit Germany	Confederacies of Burgundians, Alamanni & Franks emerge
<b>Roman Empire</b>	<b>ROMAN EMPIRE</b>		Ostrogothic Black Sea Emp.
	<p>Map</p> <p>Augustus proclaims world peace</p> <p>Julio-Claudians</p> <p>Flavians</p> <p>Good Emperors</p> <p>Severi</p> <p>Soldier Emperors</p> <p>Roman Empire at its peak</p> <p>Loss of Germania</p> <p>Conquest of Britain</p> <p>Pantheon</p>	<p>Germanic Invasions</p> <p>Christian persecution</p> <p>Constantine adopts Christianity</p> <p>Plague</p> <p>Military Despotism</p> <p>Civil Wars</p> <p>Marcomanni wars</p> <p>Germanic and Gothic wars</p>	<p>Barbarian Migrations</p> <p>Angles and Saxons in England</p> <p>Map</p> <p>Germanic kdms succeed the Roman Empire</p> <p>West Roman Empire</p> <p>Hunnish Empire</p> <p>from the Caspian Sea to the Rhine and Baltic</p> <p>Ostrogothic kdm in Italy</p> <p>Visigothic kdm in Spain.</p>
<b>Roman Asia</b>	Palestine part of the Roman Empire	Diffusion of Christianity from Antioch, Alexandria and Rome	Council of Nicaea
	Crucifixion of Jesus	Jewish revolt	Conquest of Asia Minor
	Jewish revolt	Jewish diaspora begins	Wars with Parthia
		Rome defeats Persia in Syria and Armenia	Persia repulsed
		Mesopotamia lost	
		East Roman Empire establ. in the East (cap. Constantinople)	Hagia Sophia
		Greek language replaces Latin at court	
<b>Middle East</b>	<b>Parthia</b> (cap. Ctesiphon)	Map	Rebellion of Persia against Parthia
	Conflicts with Rome weakens central authority		
		<b>Sassanides</b> (cap. Ctesiphon)	Revolt of Mazdak
		Neo-Persian Empire (until 650)	Hunnish Incursions
<b>Egypt</b>	Roman Province Egypt	Christian community established in Alexandria	Monasticism evolves in Egypt
			Egypt part of the East Roman Empire
	<b>B.C. 1</b>	<b>A.D. 100</b>	<b>200</b>
			<b>300</b>
			<b>400</b>
			<b>500</b>
<b>India</b>	Yueh-chi from Central Asia conquer Bactria (N' India)	Yueh-chi establish the <b>Kushana</b> Empire	Kushana kings reduced to vassalls of Persia
			100 years of disorder
<b>S'India</b>	Mission of St.Thomas	Emergence of Tamil culture around city of Madurai	
			<b>G U P T A</b> (cap. Pataliputra)
			Golden Age of Hindu civilization
			Gupta Empire breaks up under impact of Hunnish invasions
<b>China</b>	<b>Western HAN</b>	Map	<b>Eastern HAN</b> (cap. Lo-yang)
	Wang Mang reforms		Re-newed flowering of the empire
			Buddhism reaches China over the silkroad
			Yellow Turban revolt
		3 Kingdom Period	Wei, Wu, Shu
		Temporary unification by the 'Chin'	
			Mongol <b>Juan-juan</b> confederacy in Central Asia
			Separation of N. and S. China: Hunnish rulers establ. 16 kdms in the North. 'Six Dynasties' continue Chinese tradition in the South.
<b>Japan</b>	Yamato kingdom in Japan evolves		Japan dominated by Korea
			<b>Wa-ni</b> introduces Chinese writing to Japan
<b>Africa</b>	Kdm of Axum in Abyssinia		Trans-Saharan camel trade stimulates growth of sub-Saharan states: Kdm of Ghana (4-13th century)

<b>Viet.</b>	1 <sup>st</sup> Chin. dom.	2 <sup>nd</sup> Chinese domination over Vietnam
--------------	----------------------------	---

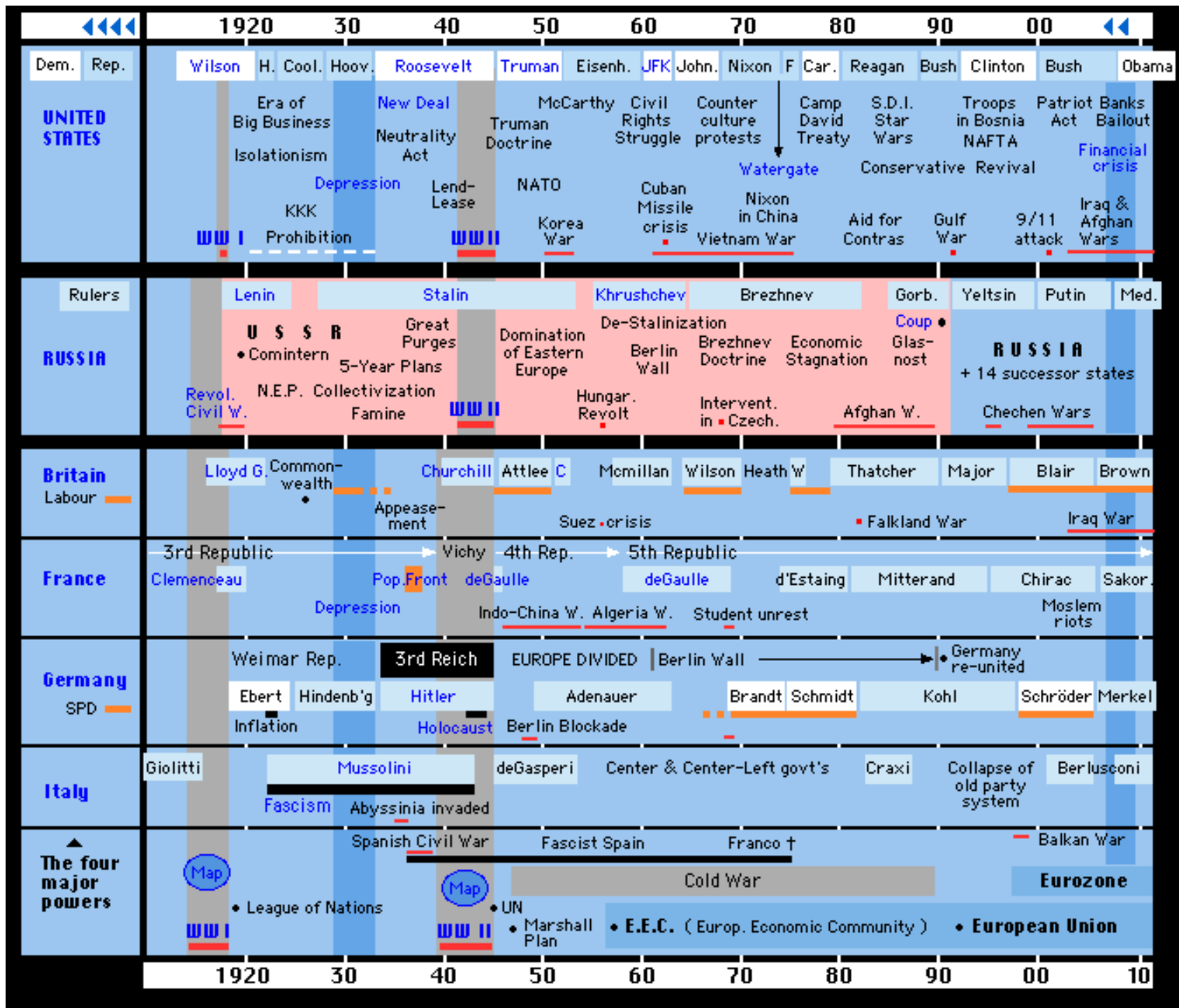
Hai Bà Trưng

<b>America</b>	Peru : Tiahuanaco center (Lake Titicaca)    Huari Empire (Central Peru)    Huari and Tiahuanaco abandoned	
	<b>Maya Old Empire</b>  Temple centres in Uaxactun, Copan and Tikal	Maya culture disintegrates    Maya calendar discontinued    Maya migrate north to Yucatan
<b>Europe</b>	<p style="text-align: center;"><b>F R A N K S</b></p> <p>Frankish Kdms under <b>Merovingians</b> (Neustria and Austrasia) (cap. Paris) (cap. Reims)    Rise of <b>Carolingians</b> b.of <b>Poitiers</b></p> <p><b>Italy</b> : Langobards struggle with Byzantines    <b>Justinian re-conquers the West</b>    <b>Visigothic Kdm in Spain</b>    <b>Ostrogothic Kdm in Italy</b>    <b>Papal state established</b></p> <p><b>Magyar raids into Europe</b>    • Kdm of <b>Hung.</b></p> <p><b>Bulgarian Khanate</b> (former 'Huns') to 1014    <b>Magyar raids into Europe</b>    • Kdm of <b>Hung.</b></p> <p><b>West Frankish Kdm</b>    <b>East Frankish Kdm (Germany)</b>    <b>Kdm of France evolves</b>    <b>Holy Roman Emperors</b></p> <p><b>Empire of Charlemagne</b> </p> <p><b>Danelaw in England</b>    <b>Establ. of Norman states</b> • <b>Kiev</b> • <b>Normandy</b>    <b>Vikings discover America</b> </p>	
<b>Roman Empire</b>	<b>East Roman Empire</b>	<b>BYZANTINE EMPIRE</b> (cap. Constantinople) East Roman Empire renamed Byzantine Empire
<b>Middle East</b>	<b>Sassanides</b> Neo-Persian Empire (until 650)	<b>CALIPHATES</b>  <b>Omayyads</b> cap. Damascus <b>Abbasid Caliphate</b> cap. Baghdad
<b>Egypt</b>	Egypt part of the East Roman Empire	<b>Fatimids in Egypt</b>
500                                  600 <b>Sunni/Shia</b> 700                                  800                                  900                                  1000		
<b>India</b>	<b>Hunnish Invasion</b> <b>Harsha's Empire</b> in n'India    Moslems conquer Sind    Pala kings rule E'India (Bengal)    Nepal independent of Tibet	
<b>S'India</b>	Disruption of Indian civilization    Struggle over central India exhausts the major kdms    (Hindu Princes accept Barbarian <b>Rajputs</b> as nobles)    Rajput states arise	
	Pallava Period    Tamil kdms of Pallava and Chalukya struggle for domination    Vedanta reform by <b>Shankara</b> Chola Kingdom dominates the South	
<b>China</b>	<b>Age of Disunity</b> School of Buddhism founded	<b>SUI</b> Civil War    Cultural flowering    Great poetic revival    Gunpowder discovered <b>Revolution</b>
	Mongol Juan-juan (Central Asia)    Second unification    Chinese advance into Turkestan and Tibet <b>T'ai Tsung</b> <b>唐 T A N G</b> cap. Chang-an <b>b. of Talas</b> (Arabs defeat Chinese)    Buddhism repressed	<b>Khitan (Mongols) rule over Manchuria</b>
<b>Japan</b>	<b>Japan*</b> Buddhism introduced    State modelled after China ( <b>Taika</b> reform)	<b>Nara Period</b> <b>Heian Period</b> (cap. Heian-kyo = Kyoto) dominated by the <b>Fujiwara</b> clan
<b>Africa</b>	Kdm of Ghana (4-13th cent.)    Aksum (Ethiopia) becomes great power    Establishment of sub-Saharan Islamic states    Hausa Kdms evolve (Niger river area)	
<b>Viet.</b>	2 <sup>nd</sup> Chin. dom.    Early Lý	3 <sup>rd</sup> Chinese domination over Vietnam    Ngô    Đinh    Lê

<b>America</b>	Coastal state of <b>Chimu</b> evolves in Peru	<b>Incas</b> (cap. Cusco established)	Chimu Empire evolves	Inca Empire evolves
	<b>Mayas</b> New Empire: Mayas move to Yucatan	<b>Aztecs</b> (to 1521) (cap. Tenochtitlan establ.)	3-city league formed	
<b>Russia</b>	<b>Kievan Rus</b> Varangian (Viking) upper class	Kievan state splits up	Alex. Newski's victory over Sweden saves north. Russia	<b>Grand Duchy of Lithuania</b> from Baltic to Black Sea
	<b>Tartars</b> Great Russia ruled by the <b>Golden Horde</b> (Mongols)			Moscow independent of the Tartars
<b>Europe</b>	<b>Britain</b> : b. of <b>Hastings</b> (Norman England)	<b>PAPAL DOMINATION</b>		England: House of Lancaster
	Holy Roman Emperors	<b>Struggle with Papacy</b>	<b>Hohenstaufen Emperors</b>	<b>Inter-regnum</b>
			<b>Habsburgs</b>	(Struggle betw. Pope & anti-Pope)
				<b>Habsburg Emperors</b>
	• Kdm of <b>Poland</b>			<b>Great Schism</b>
	• Kdm of <b>Hungary</b>	<b>1</b> ← <b>Crusades</b> → <b>3</b>	<b>4</b>	<b>5</b>
	Rise of <b>Venice</b>			<b>6</b>
				<b>7</b>
			Rivalry <b>Venice/Genoa</b>	<b>Plague</b>
				<b>100-Years War</b>
				<b>Oversea Discoveries</b>
	<b>Moors in Spain</b>	<b>High Middle Ages</b>	<b>Reconquista in Spain</b>	<b>Mongol Conquests</b>
<b>Byzant. Empire</b>	<b>BYZANTINE EMPIRE</b>	Battle of <b>Manzikert</b>	Re-conquest of <b>Jerusalem</b>	<b>Late Byzantine Empire</b>
		Crusader states established	Crusaders establish the <b>Latin Empire</b>	<b>Battle of Kossovo</b>
			<b>2nd Greater Bulgarian Empire</b>	Ottomans take <b>Constantinople</b> (End of Middle Ages)
<b>Middle East</b>	<b>CALIPHATES</b>	<b>Seljuk Sultanate</b>	Break-up of Seljuk Sultanate into smaller states	Turkish Moslems establish the <b>Ottoman Empire</b> in Anatolia
	(Intrusion of Turkish peoples who form Palace Guard and exercise political power)		<b>Khanate of Persia</b> (Mongols in Persia)	<b>Timur</b> attacks Anatolia and Egypt
<b>Egypt</b>	Shiite dynasty of <b>Fatimids</b> form anti-Caliphate in Egypt	<b>Ayyubide</b> Sultanate	<b>Mamluke</b> Sultanate in Egypt	(Turkish Palace Guard establish Sultanate)
	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>
				<b>1400</b>
				<b>1500</b>
<b>India</b>	<b>Ghazni</b> Mahmud of Ghazni (Afghanistan) raids into India	<b>Delhi Sultanate</b>	<b>Timur</b> invades	Afghan <b>Lodi Sultans</b> (Delhi)
	<b>Rajput</b> states arise	<b>Mohammad of Ghor</b> occupies Delhi	Turk Moslem invaders settle in northern India	<b>Dekhan Sultanats</b>
<b>S'India</b>	<b>Chola Kingdom</b>	(Tamil reform by <b>Ramanuja</b> )	Buddhism declines	<b>Pandya Kingdom</b> (cap. Madurai)
				• <b>Vijayanagar Kingdom</b> (Hindu Kdm)
<b>China</b>	Khitans (Mongols) rule over Manchuria and Korea	<b>元</b> <b>Great Mongol War</b>	<b>YUAN DYNASTY</b>	<b>明</b> <b>MING DYNASTY</b>
	<b>宋</b> <b>Northern SUNG</b> (cap. Kaifeng)	<b>Southern SUNG</b> (cap. Hangzhou)	Mongol rule (cap. Peking)	(cap. Nanking)
	Appeasing the Mongols by surrendering territory	Flowering of drama, painting and philosophy	Naval attack on Japan	In reaction to Mongol rule restoration of old tradition
				Naval expeditions to India and East Africa
<b>Japan</b>	<b>Heian Period</b> (Kyoto) develop. of hereditary Shogunate	Zen Buddhism	<b>Kamakura Shogunate</b>	<b>Ashikaga Shogunate</b> (cap. Kyoto)
				<b>Warring Countries</b>
<b>Africa</b>	<b>Haussa</b> Kdms evolve	Stone structures in Zimbabwe in East Africa	Mali Kdm under king <b>Mansa Musa</b> (Timbuktu)	<b>Songhai Kdm</b> <b>Benin Kdm</b>
<b>Viet.</b>	Lê anter.	<b>李</b> Lý dynasty in Vietnam	<b>陳</b> Trần dynasty in Vietnam	4th Chin. <b>黎</b> Lê dynasty



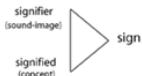
Viet.	黎 Lê dynasty	莫 Mạc	Lê restored Nguyễn lords	阮 Nguyễn dynasty	French colony
-------	--------------	-------	-----------------------------	------------------	---------------





**MEDIA THEORY**

**THEORY**



Course in General Linguistics (1915)

**Saussure**  
Switzerland

**ART**

1908 Henri Matisse  
**EXPRESSIONISM**

Guillaume Apollinaire  
**CUBISM**

1908-23 Pablo Picasso  
**FUTURISM**

France

**modern art**

**DADA** Switzerland

**SURREALISM** Spain  
Manif. of Surrealism (1929)  
**Andre Breton**

**automatic surrealism**

Masson, Miro, assassination of painting

**paranocritic surrealism** Dali

**ABSTRACT EXPRESSIONISM** America  
Jackson Pollock

**POP ART** 1954 Jasper Johns

**RUSSIAN CONSTRUCTIVISM** Russia  
functionality

**avante-garde**

**CONSUMER ART**

**ANIMATION** Golden Age  
Snow White (1937) Dumbo (1941)

**COMICS** Platinum Age  
Mickey Mouse (1931)

**COMICS** Golden Age  
Famous Funnies  
Action Comics (1938) Superman (1938) Batman (1939)

**POLITICS**

**World War I** Spain Alfonso XIII (monarchy) Miguel Primo di Rivero

**Spanish Republic** Niceto Zamora Manuel Azana

**World War II** CEDA

**Cold War** China / Tibet

**Great Leap Forward** Vietnam War (1959-1975)

**Soviet - Afghanistan**

**Rwanda**

**Iraq War (2003-)**

1900 1915 1920 1925 1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2010

**SCIENCE**

Quantum Theory

Wave-Particle Duality

Theory of Relativity

2 billion

Radio-Astronomy

Electron Microscope

Superfluidity

Nuclear Fission

Big Bang Theory

Quantum Electro-dynamics

Structure of DNA

**COMPUTER**

Man in space

Laser

3 billion

Chaos Theory

Moon Landing

4 billion

5 billion

First extra-solar planet

Human genome

6 billion

**World Population**

**rise of popular science**

**Timeline of 20<sup>th</sup> c. Art and New Media**

**Walter Benjamin** Art in the Age of Mech. Rep. (1936)

**The Mechanical Bride** (1951)

**Marshall McLuhan** Understanding Media (1964)

**Clement Greenberg** Art and Culture

**Steven Levy** Hackers (1984) Artificial Life (1992)

**Paul Virilio** The Vision Machine (1994)

**Lev Manovich** The Language of New Media (2001)



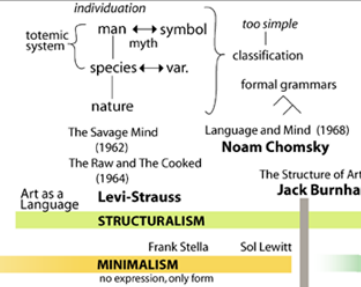
Writing Degree Zero (1953)

**Roland Barthes**

**Levi-Strauss** The Savage Mind (1962) The Raw and The Cooked (1964)

**Noam Chomsky** Language and Mind (1968)

**Jack Burnham** The Structure of Art (1973)



**STRUCTURALISM**

**MINIMALISM** no expression, only form

Frank Stella Sol Lewitt

**PERFORMANCE ART** Richard Serra

**VIDEO ART** Naim Jun Paik

**EARTH ART** Robert Smithson

**GRAFFITI**

**POP ART** 1962 Andy Warhol 1966 Claes Oldenberg

**Harold Cohen (AARON)**

**Karl Sims**

**William Latham**

**GENERATIVE ART**

**ALGORITHMIC ART**

Peter Beyls (1988) *The Algorists*

Hebert (1989)

**INFORMATION VISUALIZATION**

Visual Display of Quantitative Information (1983)

Edward Tufte

Bradford Paley

Benjamin Fry

George Legrady

**ORGANIC ART / ARTIFICIAL LIFE**

Sommerer & Mignonneau

K. Feingold

Eduardo Kac

**HACKING (EXPLORATORY)**

**HACKTIVIST ART (SUBVERSIVE)**

**TACTICAL MEDIA**

Josh On

**new media art**

**CYBERNETIC ART** Stelarc

**POST-MODERN SCULPTURE** Jeff Koons Michael Reas

Tim Hawkinson Damien Hirst

**LOWBROW**

**POP SURREALISM** Robert Williams Mary Ryden

**post-modern art**

**ANIMATION** Pixar Dreamworks  
Toy Story (1995) Cars (2006)  
Antz Monsters (2001) Ratatouille (2007)

**VIDEO GAMES** Pong (1971) Pac-Man (1981) Super Mario (1985) Doom Quake Warcraft Myst/Riven

**COMICS** Marvel Comics  
Fantastic Four (1961) Teenage Mutant Ninja Turtles (1984) Dark Knight Returns (1986)

**visual effects & games**