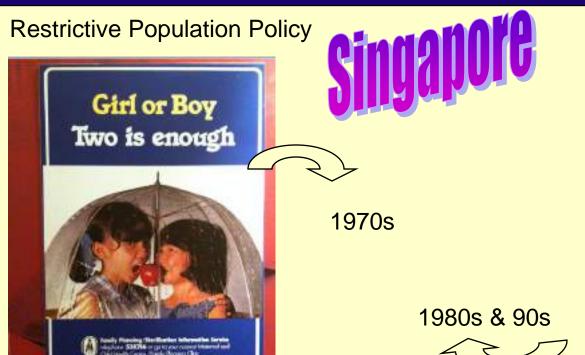




The Structure Of The Present Controls The Content Of The Future

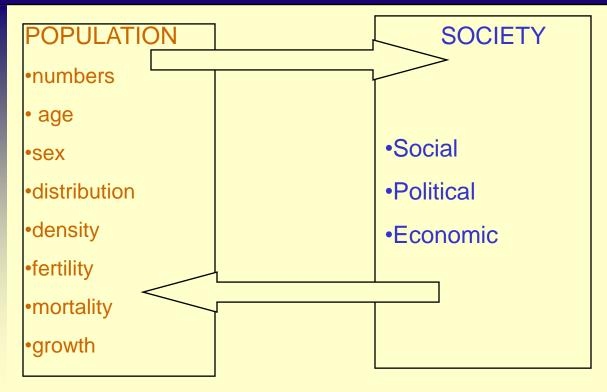




"At least two. Better three. Four if you can afford it"



The Structure Of The Present Controls The Content Of The Future



Provides the essential background to all other aspects of Human Geography



Do we need Population Geography or is Demography enough?

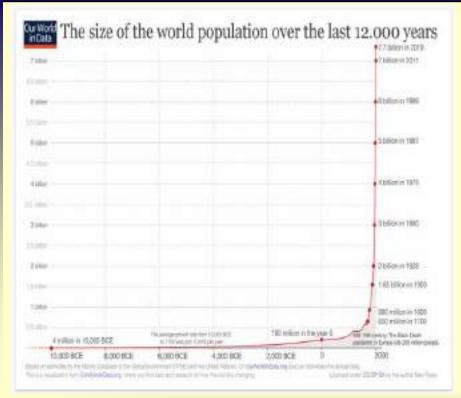
- **Demography** is the statistical study of human population. Provides a general perspective.
- Population Geography— Works in tandem with Demography. It is concerned with *spatial* analysis of the statistical data provided by demography—location, density, and pattern. Provides the concepts and theories to understand and forecast the size, composition, and distribution of the human population.

Poplualtion Geography is required as it seeks answers to the problems faced by the variability of demographic features over space.

QUESTION: Why is the concept of Scale crucial to the studies of population ??



How has the world population growth changed over time?



- The world population today that is 1,860-times the size of what it was 12 millennia ago when the world population was around 4 million.
- Almost all of this growth happened just very recently.
- Around 108 billion people have ever lived on our planet. This means that today's population size makes up 6.5% of the total number of people ever born.

Source: https://ourworldindata.org/world-population-growth

-8000

10 million

-9000

-8000

-7000

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0

250 million



year 0

1000

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Population Growle

1800

1 billion

1400

1600

1800

2000

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1930

2 billion

1400

1600

1800

2000

Sources: E

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1960

30 years later > 3 billion

1400

1600

1800

2000

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1974

14 years later - 4 billion

1400

1600

1800

2000

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1987

13 years later > 5 billion

1400

1600

1800

2000

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1999

12 years later > 6 billion

1400

1600

1800

2000

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2011

12 years later > 7 billion

1400

1600

1800

2000

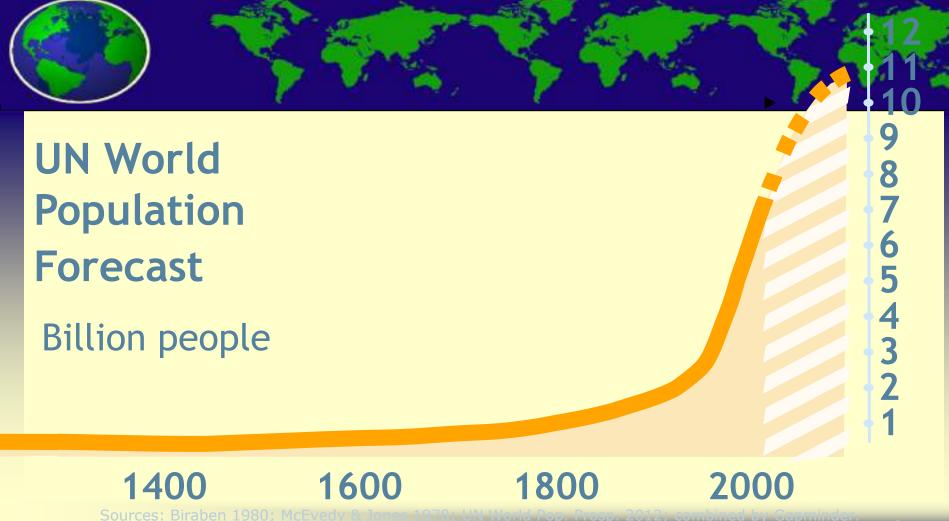
Sources: B

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World population

What impression does this line give? ▶



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RELATED QUESTIONS

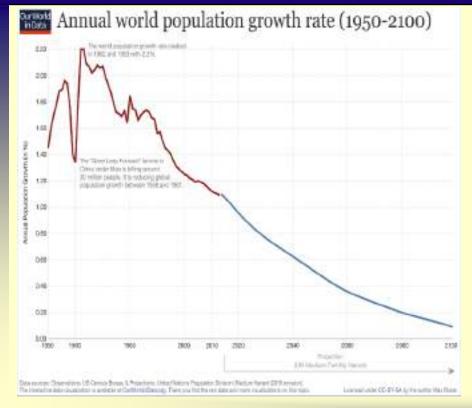
Why will the world population continue to grow fast?

More Adults

- How did babies per woman change historically? It dropped
- How reliable is the world population forecast?
 Very Reliable



How has the world population growth rate changed?

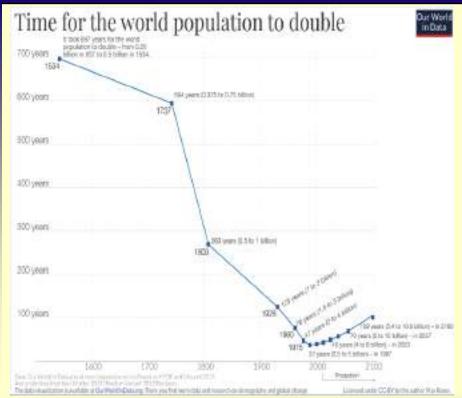


Is the global population growing exponentially? The answer is no.

https://ourworldindata.org/world-population-growth



Population Doubling Time



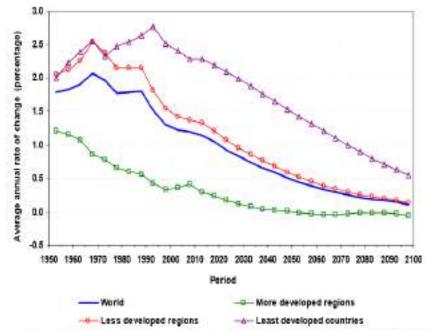
The fastest doubling of the world population happened between 1950 and 1987: a doubling from 2.5 to 5 billion people in *just 37 years*—the population doubled within a little more than one generation. This period was marked by a peak population growth of 2.1% in 1962.

https://ourworldindata.org/world-population-growth



Population growth by world regions Less Developed vs More Developed

Figure L1. Average annual rate of population change for the world and development groups, 1950-2100



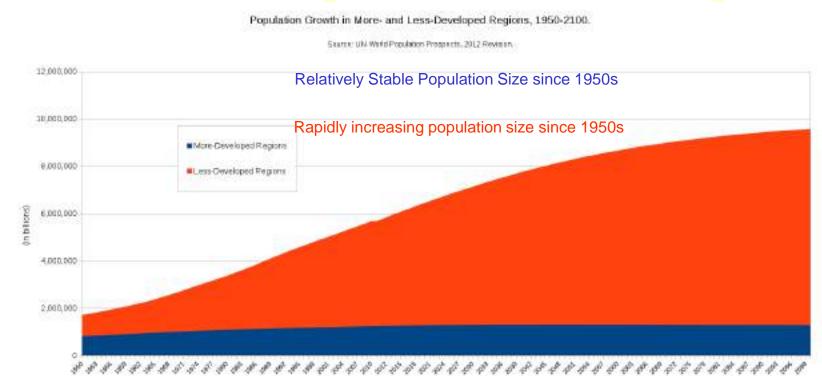
Source: Population Division of the Department of Economic and Social Affairs of the United National Secretariat (2013). World Populative Property: The 2017 Secretariat (2014).

- The rates of population growth in less developed regions, although declining rapidly, will continue to be far above those in more developed regions for the foreseeable future.
- The 49 least developed countries, according to UN data, experienced the greatest increases in population growth.

Source:United Nations, Department of Social and Economic Affairs, Population Division (2013). World Population Prospects: The 2012 Revision, Highlights and Advance Tables

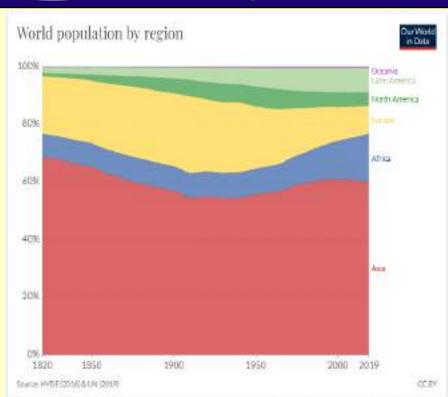


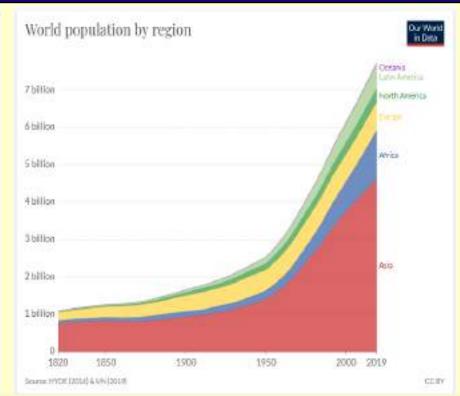
Population growth by world regions Less Developed vs More Developed





Region wise population growth





Source: https://ourworldindata.org

d-population-growth#future-population crowth



Some Population Definitions

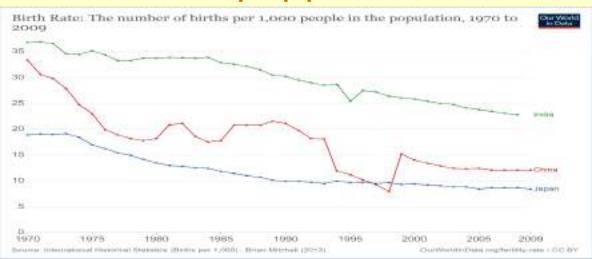
- Demographers employ a wide range of measures of population composition from individual counts rates and cohorts
- * Rates simply record the frequency of occurrence of an event during a given time frame for a designated population.
- Cohort measures refer data to a population group unified by a specified common characteristic.



Crude birth rate = Number of live births during the year

------ x 1000

Mid-year population



Factors Influencing CBR include:

*age and sex structure

*customs

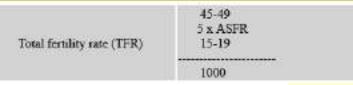
*religious beliefs

*population policies.

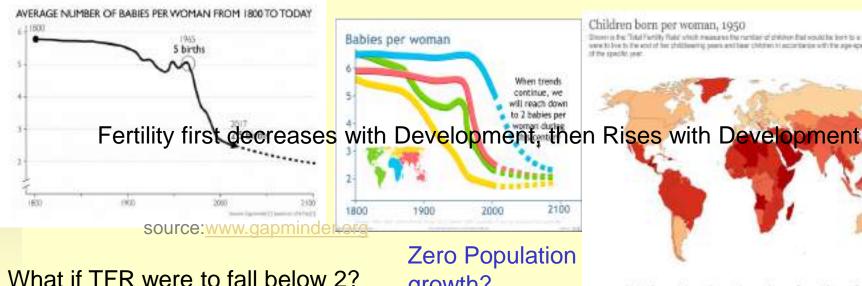
Does there exist a relationship between Birth Rate and Development Levels?

From:https://ourworldindata.org/fertility -rate

Fertility Rates



A total fertility rate of 2.1 is necessary just to replace the present population.



What if TFR were to fall below 2?

growth?

Population Explosion vs Population Implosion





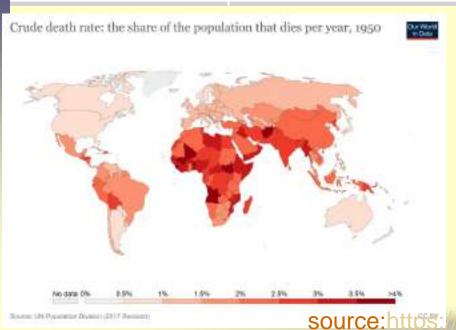
Crude Death Rates

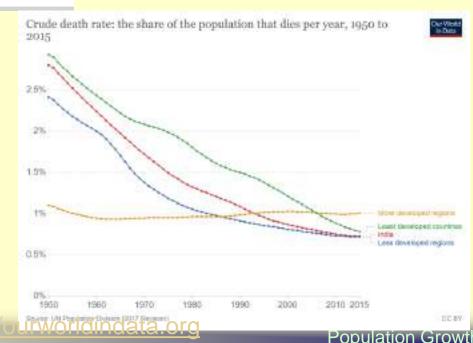
Crude death rate (CDR)

Number of deaths during the year ----- x 1000

Mid-year population

Also known as Mortality Rate

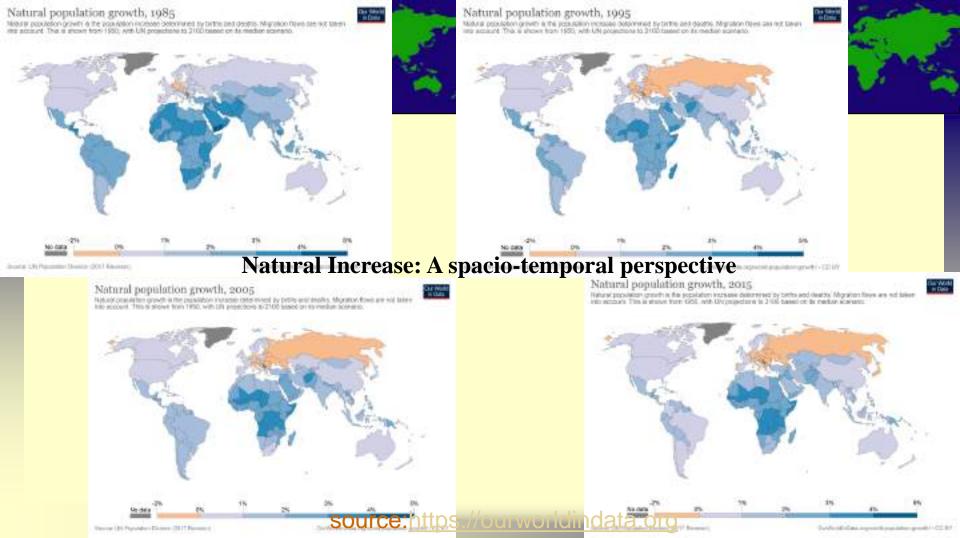






Natural Increase

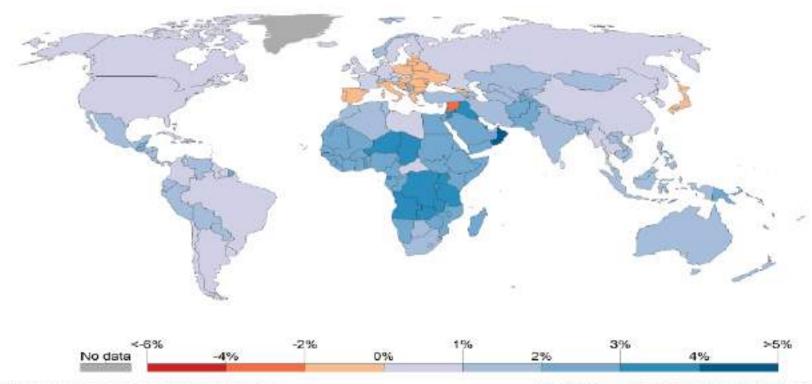
- Rate of natural increase = CBR- CDR
- Tells only a part of the story of population change...
- Does not include increase or decrease as a result of migration (Immigration/Emigration) of people. Migration involves the long-distance movement from one residential location to another.
- When that relocation occurs across political boundaries, it affects the population structure of both the origin and destination jurisdictions.



Population growth rate, 2015



Annual rate of population change from 1950, including UN projections to 2100 based on its median scenario. This takes births, deaths and migration into account.

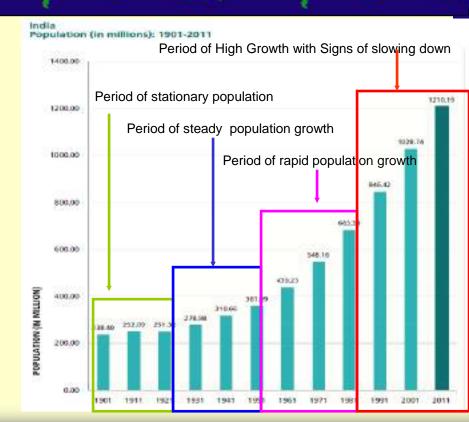


Source: UN Population Division (2017 Revision)

OurWorldInData.org/world-population-growth/ • CC BY

Indian Scenario (Census 2011)

SL No	Country	Reference date	Population (In millions)	Decadal change (in %)	
1 China		01.11.2010	1,341,0	5.43	
2	India	01.03 2011	1,210.2	17.64	
3	U.S.A	01.04.2010	308.7	7.26	
4	Indonesia	31.05.2010	237.6	15.05	
5	Brazil	01.08.2010	190.7	9.39	
6	Pakistan	01.07.2010	184.8	24.78	
7	Bangladesh	01.07.2010	164.4	16.76	
8	Nigeria	01.07.2010	1583	26,84	
9	Russian Fed,	01.07.2010	140.4	4.29	
10	Japan	01.10.2010	128.1	1,1	
	Other Countries	01.07.2010	2844.7	15.12	
	World	01.07.2010	6908.7	12.97	



Source: Provisional Population Totals India: Census 2011



Population Growth in India

Population and its growth, India: 1901-2011

Census Years	Population	Decadal growth		Change in decadal growth		Average annual exponential	Progressive growth rate over 1901
		Absolute	Percent	Absolute	Percent	growth rate (percent)	(percent)
- 1	2	3	4	5	6	7	8
1901	23,83,96,327		-	**			
1911	25,20,93,390	1,36,97,063	5.75		1/4/2	0.56	5.75
1921	25,13,21,213	-7,72,177	(0.31)	-14469240	-6.05	-0.03	5.42
1931	27,89,77,238	2,76,56,025	11.00	28428202	11.31	1.04	17,02
1941	31,86,60,580	3,96,83,342	14.22	12027317	3.22	1.33	33.67
1951 ¹	36,10,88,090	4,24,27,510	13.31	2744168	-0.91	1.25	51.47
19611	43,92,34,771	7,81,46,681	21.64	35719171	8.33	1.96	84.25
1971	54,81,59,652	10,89,24,881	24.80 ⁶	30778200	3.16	2.20	129.94
1981 ²	68,33,29,097	13,51,69,445	24.66 ⁶	26244564	-0.14	2.22	186.64
1991 ³	84,64,21,039	16,30,91,942	23.87	2,79,22,497	17.12	2.16	255.05
20014	1,02,87,37,436	18,23,16,397	21.54	1,92,24,455	10.54	1.97	331.52
20115	1,21,01,93,422	18,14,55,986	17.64	-8,60,411	-0.47	1.64	407.64

The percentage decadal growth during 2001-2011 has registered the sharpest decline since independence. For 2001-2011, this decadal growth has become 17.64 percent, a decrease of 3.90 percentage points from 21.54 percent for the period 1991-2001.

The population of India has increased by more than 181 million during the decade 2001-2011. The absolute addition is slightly lower than the population of Brazil, the fifth most populous country in the world!

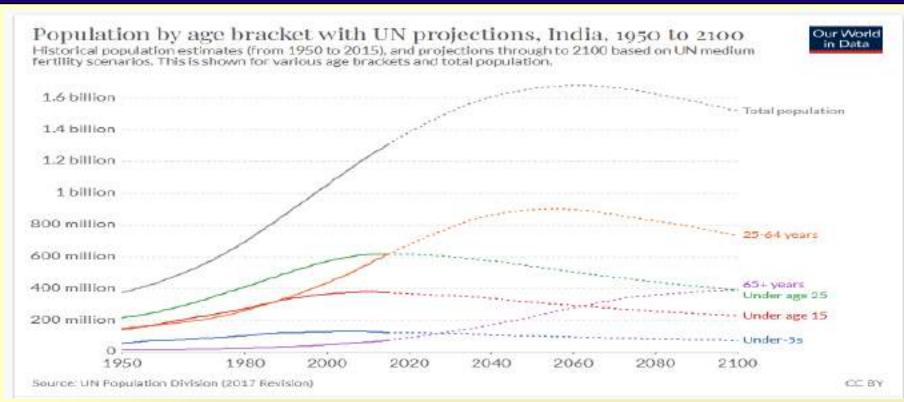
2001-2011 is the first decade (with the exception of 1911-1921) which has actually added lesser population compared to the previous decade.

Source: Provisional Population Totals

India: Census 2011

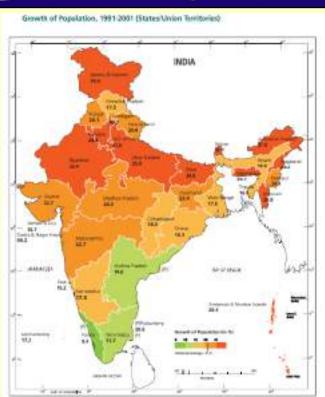


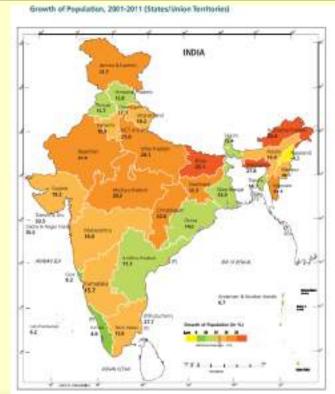
Is India's population growth coming to an end?





Spatial Pattern of Population Growth in India





Source: Provisional Population Totals India: Census 2011



Resources & References

Bjelland, Mark, Daniel Montello, Jerome Fellman, Arthur Getis and Judith Getis (2013). Human Geography: Landscapes of Human Activities

Fouberg, Erin H., and Alexander B. Murphy. 2012. Human Geography: People, Places and Culture.

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https://ourworldindata.org

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