SOCI 210: SOCIOLOGICAL PERSPECTIVES

Agenda1. Administrative2. Studying populations3. Demographic theories

Studying populations



STUDYING POPULATIONS



Demography

- Study of populations at a macroscale
- At its most basic: understanding the ways populations grow, shrink, and otherwise change
- E Relationship between population and other sociological factors

Population characteristics

- i Överall size
- Proportions of socially relevant categories

Ethnicity, gender, religion, etc.

- Rates of change in these populations
- **Theories** and **mechanisms** of change in these populations



DYING POPULATIONS

Three factors affect changes in population size:

Birth Crude birth rate Number of children born in a given time period, per 1,000 population

E Fertility rate

Average number of children that a childbearing person would have over their lifetime, assuming current rates by age

Death | [§] Crude death rate

Number of deaths in a given time period per 1,000 population

E.g. infant mortality (number of children who die within a year of birth, per 1,000 live births)

Migration

Immigration versus emigration

Immigration is migration into a country, *emigration* is migration out of a country

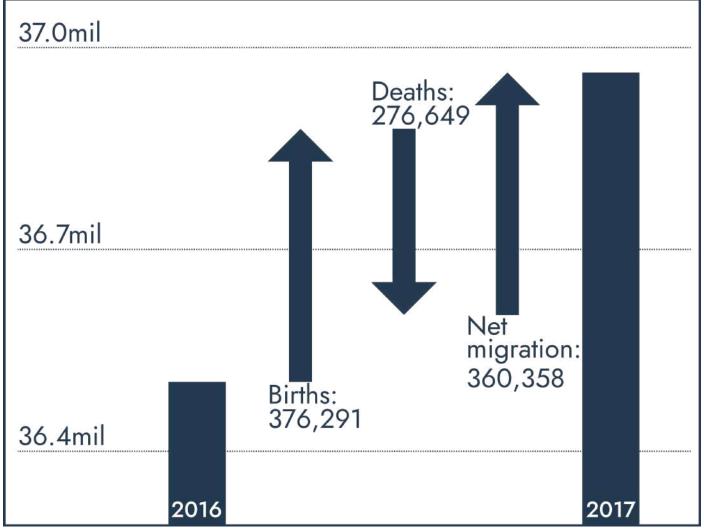
Net number of migrants

Immigrants minus emigrants

FUDYING POPULATIONS Total growth = (Birth) – (Death) + (Migration)

5

Population change Canada 2016–17

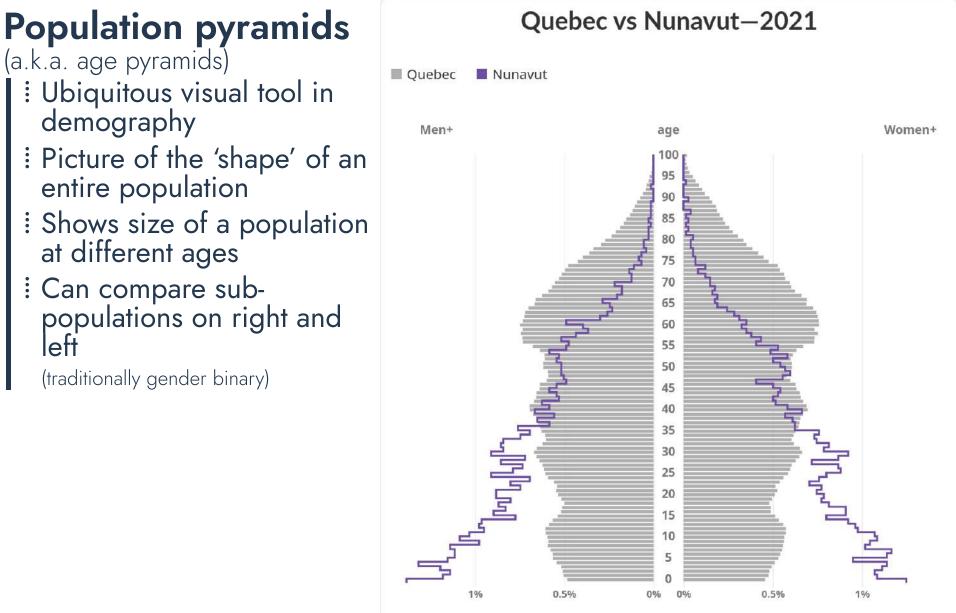


STUDYING POPULATIONS

left

Population pyramids Canada-2021 (a.k.a. age pyramids) EUbiquitous visual tool in Male Female age demography 100 : Picture of the 'shape' of an 95 entire population 90 85 : Shows size of a population 80 75 at different ages 70 : Can compare sub-65 60 populations on right and 55 50 45 (traditionally gender binary) 40 35 30 25 20 15 10 5 200,000 100.000 0 n 100,000 200.000 Male population Female population

STUDYING POPULATIONS

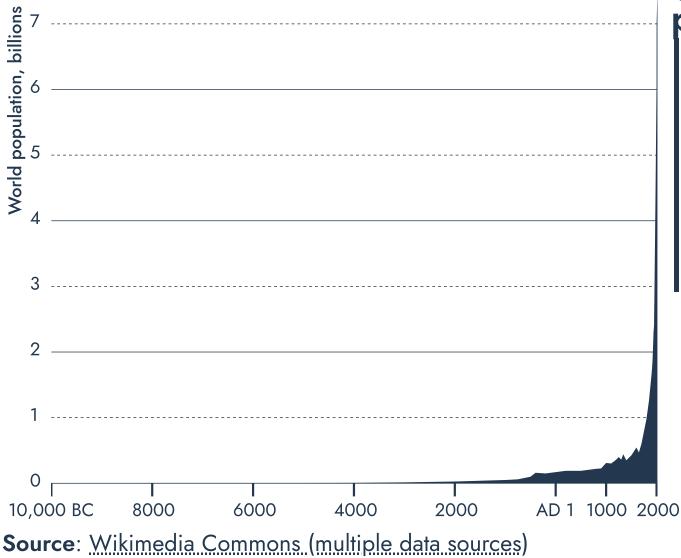


Men+ percent of total population

Demographic theories



DEATHAND THE GLUTTON.



Global population

Increased from about 1.6 billion in1900 to about 6 billion in 2000

- : 7 billion in 2012
- : 8 billion in 2022
- E Continuous growth since 14th century

Malthusian theory (18th-19th century)

- Based on Thomas Robert Malthus' (1766–1834) ideas about the capacity of the earth for human populations
- EFood, violence, and disease create "positive checks" on population
- ELow fertility provides "preventive checks"
- E Predicted a cycle of growth and decline of human population



Theories similar to Malthus' are common

Ecological theories of resource limitations

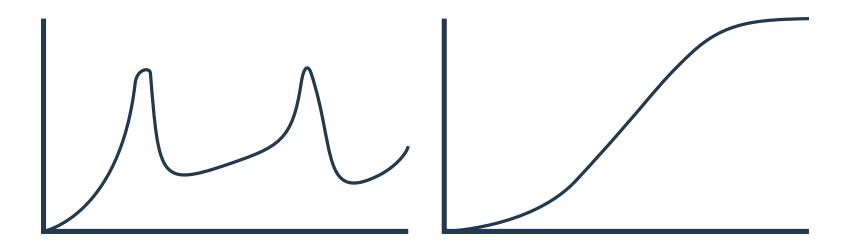
Formal models of populations in resource-scarce environments

Either cyclic (as in Malthus' theory) or predict slow decline in population growth

"Sigmoid" or "logistic" growth

E Still, global population continues to grow

Though growth rate peaked in the early 1960s





Demographic transition theory

- By far the most widespread theory of population change in social sciences
- Example: Aims to explain the empirical observation that birth and death rates have both dropped significantly over the past few hundred years

: Major claim:

Changes associated with industrialization and modernization cause subsequent changes in mortality and fertility

Demographic transition in four "stages"

DEMOGRAPHIC TRANSITION

The four stages of demographic transition theory:

Stage 1



- Birth and death rates are high, life expectancy is short
- : Minimal population growth
- E Ubiquitous throughout most of human history

Transition out of stage 1 began in some places in the 18th century

Stage 3



- Birth rate begins to drop
- E Mortality rate remains low
- ERate of population growth slows
- Eldentified by significant drop in growth

E.g. some Central American nations

Stage 2



- Death rates begin to drop, life expectency begins to increase
- Birth rates are still high
- Population growth accelerates
- Many current populations display this pattern

E.g. some sub-saharan African nations

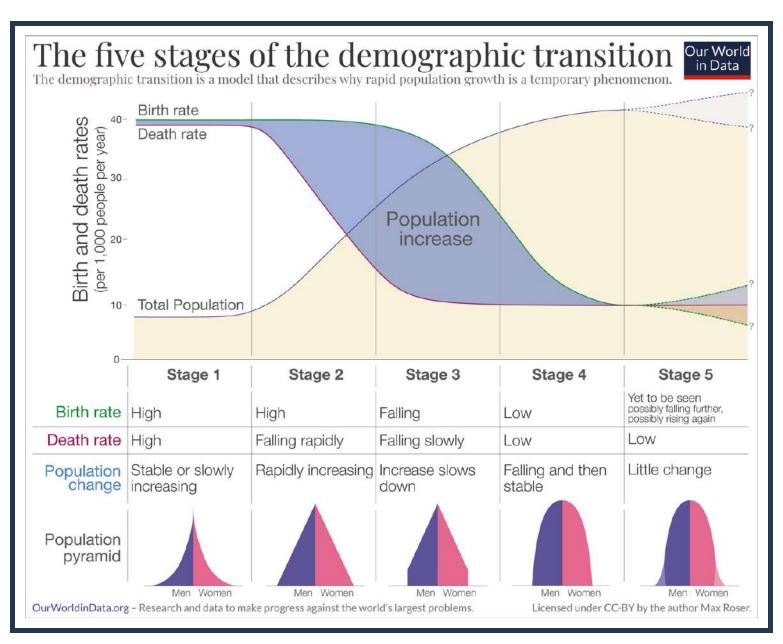
Stage 4



- Birth and death rates are both low
- Balanced rates mean slow population increase, or even decreasing population size
- Endentified by low birth rate (<2.5%)

È.g. many Éuropean and North and South American nations

DEMOGRAPHIC TRANSITION



DEMOGRAPHIC TRANSITION *Theoretical* mechanisms for ...





... decrease in mortality i Industrialization

Increased access to food and other resources

Evic and scientific advances

Sanitation, medicine, infrastructure

Economic modernization

... decrease in fertility

E Decrease in childhood mortality leads do decreased "demand" for children

SLag in fertility and mortality transitions

: Urbanization

SChanging role of children in family life

Encreases in employment and education

Employment for women normalized, contraception widespread

DEMOGRAPHIC CHANGE IN QUEBEC

Demography and society

- Although demographic theories are primarily concerned with changes in population size, they are inextricably linked with theories of culture, norms, politics, and institutions.
- EDifferences in social environment can explain demographic differences between places.

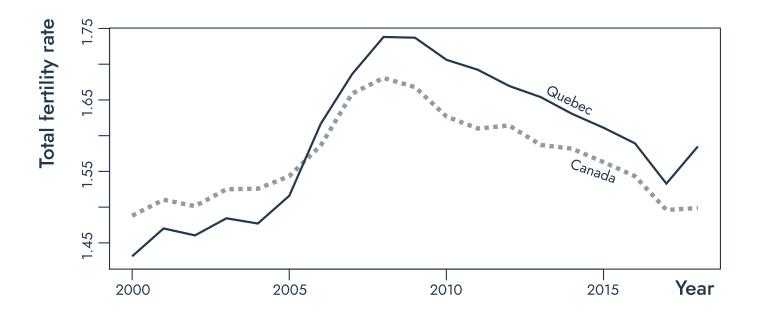


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Population pyramids from <u>Statistics Canada</u>



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