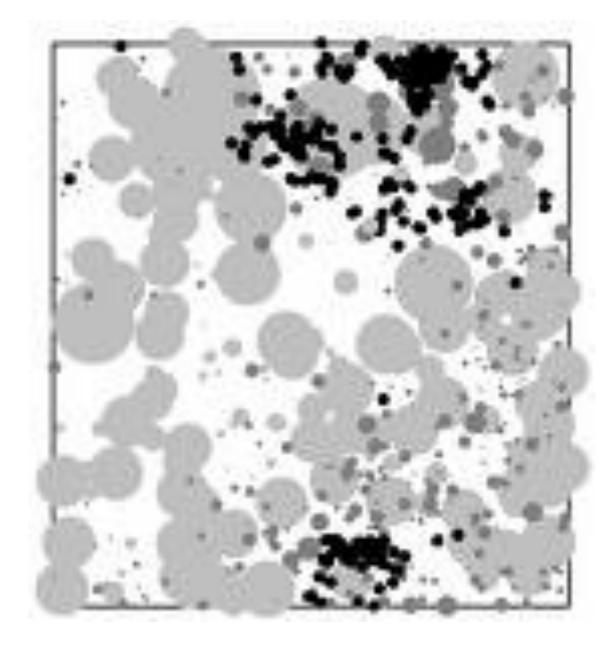
heterogeneity



Taxonomy of heterogeneities

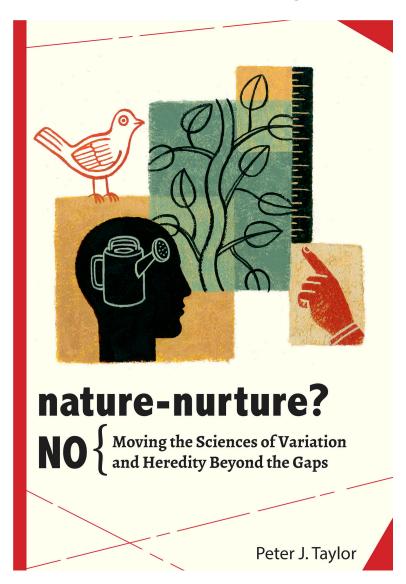
Static	1. There is an assortment, each a separate type ("cabinet of curiosities")
	2. Mixture of types (e.g., allelic heterogeneity & locus heterogeneity in genetics)
	3. Trait = composite of types (analogy: the 3 components of a triathalon)
Variational	4. There is noise or error, but that is deviation from the type or essential trajectory
	5. Variation in a set of traits involves a composite of variance/covariance structures (statistical heterogeneity)
	6. There is variation, not types
	7. Possibility of underlying heterogeneity: When similar responses of different individual (e.g., genetic) types are observed, it is not necessarily the case that similar conjunctions of risk or protective factors have been involved in producing those responses
Dynamic	8. Variation produces <i>qualitative changes in results</i> from standard theory based on uniform units (e.g., theory about Malthusian population growth, tragedy of the commons, prisoner's dilemma)
	9. Heterogeneity in pathways of development Variants, from Taylor (2005): 9a. Intersecting processesProcesses operating at different spatial and temporal scales that cut across the boundaries of the situation under consideration and restructure its "internal" dynamics. 9b. Unruly complexityarises whenever there is ongoing change in the structure of situations that have built up over time from heterogeneous components and are embedded or situated within wider dynamics.
	9c. Heterogeneous constructionresearchers establish knowledge and technological reliability through practices that are developed through diverse and often modest practical choices. This is the same as saying the researchers are involved in contingent and ongoing mobilizing of diverse materials, tools, people, and other resources into webs of interconnected resources.
Dynamic- participatory	10. Participatory restructuring of the dynamics (intersecting processes, unruly complexity, or heterogeneous construction) that generated the data.
	11. <i>Transversal engagement</i> Participatory restructuring thru multiple points of engagement, occurring in tension with deployment or withholding of trans-local knowledge and resources.

Taxonomy of heterogeneities

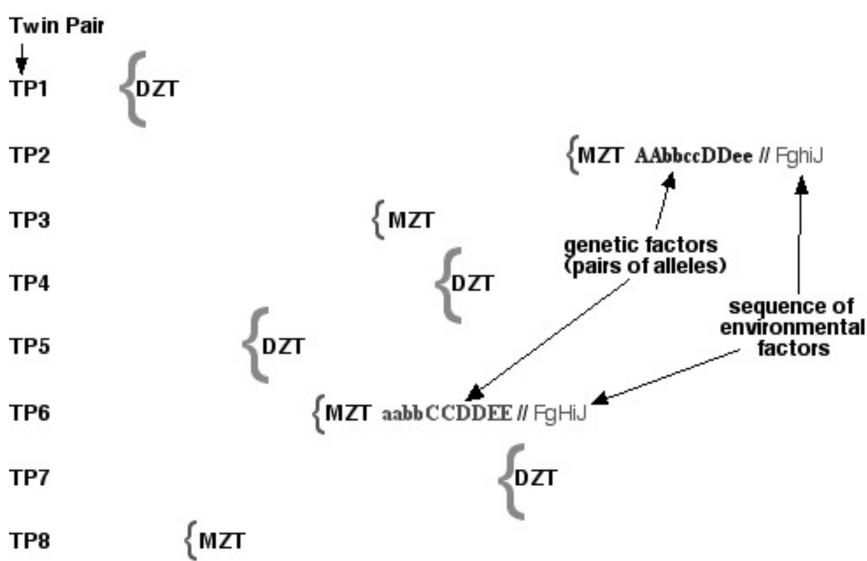
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9c. Heterogeneous construction						
10. Participatory restructuring						
11. Transversal engagement						

7. Possibility of underlying heterogeneity

7. Possibility of underlying heterogeneity

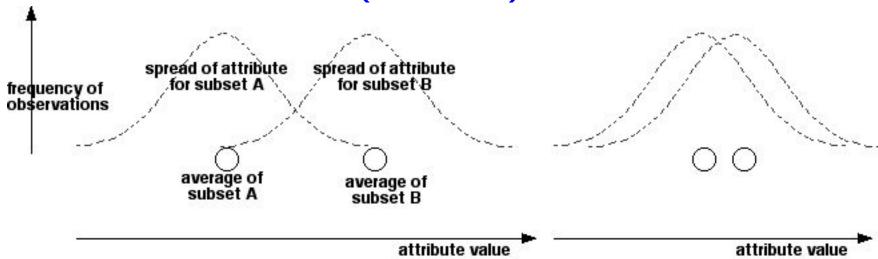


Location → L1 L2 L3 L4 L5 L6 L7 L8

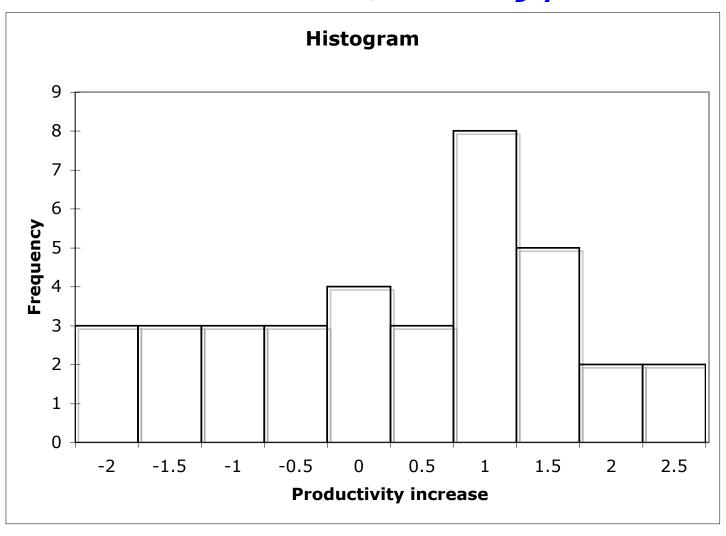


- 4. Deviation from type
- -> 6. Variation, not types
- -> 10. Participatory restructuring

4. Deviation from type (t-test)



6. Variation, not types



10. Participatory restructuring

Vision 20/20 WEST NIPISSING VISION February 1993									
STRONG DIVERSIFIED ECONOMIC BASE			EXCITING ATTRACTIVE COMMUNITY TO LIVE IN			ACTIVELY INVOLVED POPULATION			
WIDELY PROMOTED TOURISM BASE	EXPANDED BUSINESS DEVELOPMENT	APPROPRIATE NATURAL RESOURCES DEVELOPMENT	WELL MAINTAINED EXPANDING INFRA- STRUCTURE	COMMUNITY BASED SERVICES	RESPONSIVE ACCOUNTABLE UNIFIED GOVERNMENT	ACTIVE INVOLVED COMMUNITY	IMPROVED RECREATION OPPORTUNITY	LIFELONG EDUCATION FACILITIES	
Broad Based Tourism Promotion	Modern Recycling Facilities Northern Ontario Service Industry	Forestry Development	Improved Transportation Network Locally/Area	First Response Teams Community Based Services for	Effective Cooperation Between Municipalities	Active Involvement of Citizens in All Community Developments	Youth Activities Promoted and Supported	Accessible Expanded Adult Education	
Improved Four Season Accommodation Accessible	Appropriate Natural & Resource Based Industry	Expanded Local Agricultural Market	Well Serviced Community	Mental Health & Physically Challenged Expanded Local Access to Specialized	Ongoing Citizen Involvement in Local Government	West Nipissing Team Cooperation West Nipissing Friendly Welcoming	Improved Access to Lake Nipissing	Focused Job Training	
Waterways and Waterfronts Packaged	Incentive Programs to Attract Businesses Francophone	Fish Hatcheries		Clinics Coordinated Integrated Services under One Roof	Local Service Boards in Unincorporated Municipalities	Community Rural Residential Development	Broadened Leisure Activities and Facilities	Programs	
Tourist Attractions & Tours Expanded Coordinated Community Festivals	Bilinguial College Local Businesses meet all needs Attract Government	Clean Lake Nipissing	Environmentally Responsive Community	Expanded Vibrant Senior Citizen Community Restructured Social Assistance System	Re-evaluate Land Use By-laws	Open Communication across West Nipissing Youth Involved in Planning All Activities	Improved Organized Sports	Enhanced Post Secondary Education	

Taxonomy of heterogeneities

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