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#### Indigenous Identity and Colonial Rule: The Survival of Indigenous Linguistic Distinctiveness in Mexico

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- Indigenous language survival and ethnic discrimination
- 3 The Uppsala map and the indigenous City
- Geocoding indigenous society
- 5 Contemporary indigenous Mexico City
- 6 Linguistic empowerment and the persistence of the past
- Discussion and further research

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### Identity and indigenous discrimination

Indigenous peoples in Latin America are poor and often disenfranchised. Colonization is viewed as the key explanation.

- Indigenous peoples are poor because they have less human capital and skills and suffer discrimination
  - Local public good provision, social distance, skin color and language

 Indigenous peoples are poor because of the legacy of exploitative practices of colonialism

- Slavery, *encomienda*, land dispossession, disadvantageous contracting
- Indigenous peoples are poor because they chose to isolate themselves into poverty traps failing to reap the advantages of modernity
  - Remoteness and *Regiones de Refugio* as defensive moves

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Main questions:

- Under what conditions can indigenous peoples profit from exchanges with their colonial rulers?
- Is it possible for ethnic identities to survive once engaged in these exchanges?
- What role does the political empowerment of indigenous communities play in the survival of linguistic distinctiveness?

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## Provide answers drawing from unlikely place: indigenous survivors in Mexico City



Figure: Closeup of 1550 Uppsala map with *Tecpan* (indigenous palaces) highlighted

- Centers of Indigenous Political Power- Tecpan— account for the survival of indigenous identity today.
- Viceroyal capital city still considers itself a Spanish and Mestizo urban center.
- Ethnic distinctiveness (rather than full assimilation) with linguistic investment into Spanish

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## Theoretical accounts of linguistic change and acculturation

Most of our theories suggest that indigenous identities should not persist in a modern, cosmopolitan urban agglomeration like Mexico City

- Tipping game of linguistic advantage (Laitin)
- Regiones de Refugio (Aguirre Beltran)
- Hispanization and erosion of indian identity (Lockhart)
- Discrimination as handicap (Nopo, Campos)

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Indigenous peoples throughout Latin America have lower wages, higher risks of falling into poverty, less human capital, higher mortality rates, poorer health (social scientists have known this for a long time, but compelling evidence from professional economists Patrinos and Hall, Nopo and World Bank)

- Even matching for similar conditions of skill and other observables, huge residual from discrimination
- Estimate through exact matching wage gaps from the Mexican census sample
- Matching on age, gender, education, hours, location

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### Wage gap for earners in the 2010 census sample

Mincer equations for census sample with 350 thousand wage earners including 28,600 indigenous (self-adscription). Simulated earnings (quarterly) by covariates

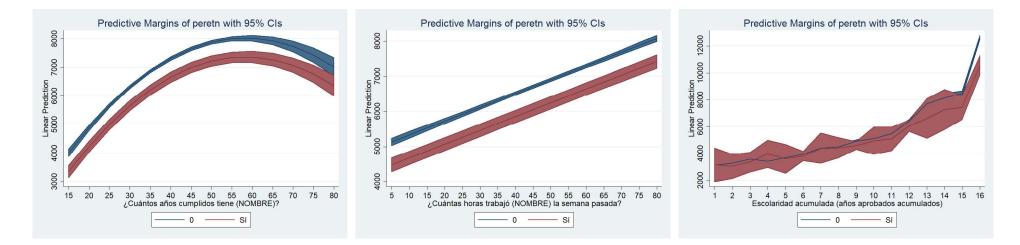


Figure: Ethnicity Wage Gap: vs Age, Hours Worked and Years of Schooling

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## A European Map Depicting Temixtitan and the Scope of the Conquest

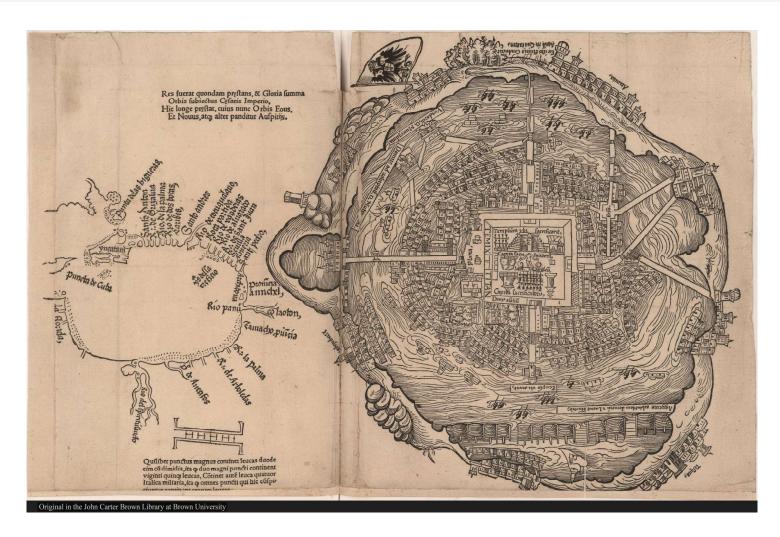


Figure: Map in Second Carta de Relación by Hernan Cortez (Nuremberg Map) John Carter Brown Map Collection B524 C827p / 1-SIZE Cartas. Carta 2a Praeclara Ferdinandi. Cortesii de noua maris oceani Hyspania narratio sacratissimo. ac inuictissimo Carolo Romanorum Imperatori semper Augusto, Hyspaniarum, Regi Anno Domini. M.D.XX. transmitta

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## A European Map Depicting Temixtitan and the Scope of the Conquest... In Full Color!



Figure: Map in Second Carta de Relación by Hernan Cortez (Nuremberg)

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## An Indigenous Map Depicting the City and the Limits of the Conquest



Figure: Map of Mexico City in 1550 (University of Uppsala Library)

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### An Indigenous Map Empoverished by the Limits of European Imagination



Figure: Tenuxtitlan according to Islario of Alonso de Santa Cruz (Biblioteca Nacional España)

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### Cartographic precision of the map of 1550

The map takes some cartographic conventions from Renaissaince European mapmakers, but is fundamentally indigenous

- no "horror vacui", but rather a fundamental intentionality in all the images (that is why the map took so long to produce)
- precision in street grid for the Spanish constructions
- exact location of *acacias*
- exact depiction of the hydrology of the valley
- place names for well known geographic features, not just human settlements
- precise location of convents and churches, including labels in Spanish

# Hypothesis: The map is actually an accurate Census and ethnography

- precise geolocation within three map scales (Tlatelolco Plaza, the cities in the lake, the surrounding valley
- precise location of all the indian palaces *Tecpan*
- within the central area of Tenochtitlan and Tlatelolco
- in specific towns or places where *Tecpan* remained centers of political power regardless of *encomiendas*

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# Learned indigenous elite and their prominence in city politics

- Indigenous cartographers had an intimate knowledge of their physical place and the governance of their territory
- Indian nobility produced maps instrumentally to fight Spanish colonizers to retain their land and ancestral rights
- Reacommodation of political power with emergence of new leaders (gobernadores, not *Tlatoani*) that did not come from noble lineages, but *macehuales* from the warrior class
- Self rule (even within the city) of the four indigenous quarters of the city
- Before the catastrophic consequences of the epidemics of the 1570s
- Construction of humanist utopias by the Franciscan missionaries, including Vasco de Quiroga (Hospital Santa Fe)
- Colegio de Santa Cruz de Tlatelolco produced Antonio Valeriano, governor of Azcapotzalco and then Tenochtitlan for 15 years

### Cartographic detail in the map

It was possible to reconstruct the following features:

- 70 towns of various sizes
- 20 mountains
- 15 water springs
- 15 lakeside locations
- 15 unidentified place glyphs
- 64 Spanish structures
- 560 Indigenous homes in Tenochtitlan and Tlatelolco
- 50 church buildings
- 47 *Tecpan* both in the islands and surrounding the lake

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### Scenes of everyday life and economic activity

Map also includes European style figures showing the daily activities in the Valley

- *Tamemes* porters carrying goods into the city
- Loggers cutting trees
- Fishermen with nets
- Farmers on prickly pears (perhaps cochineal?)
- Pulque collection
- Spanish men on horses
- Family carrying their goods (migrants)
- Man attacking another with sword (robbery)
- Missionaries converting indians
- Spanish man beating indigenous porter
- men fixing roads (perhaps through tequio)

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### Accurate depiction of the City probably at around the 1540s



Details of Map of Mexico Tenochtitlan of 1550 Tecpan surrounding the town of Coyoacan, Neighborhood of San Pablo 9 9

Geocoding is not as straightforward as using a gazzeteer such as INEGI's Archivo Historico de Localidades.

- Place names are usually glyphs
- Mistakes and spelling variation in Spanish annotations.
- Some locations to the West (top of map) have not survived
- *Reducciones* of surviving indigenous populations towards 1600
- Orography and topography provides, however, important geographic markers
- Location of towns (*alterne*) on the hills vs valleys

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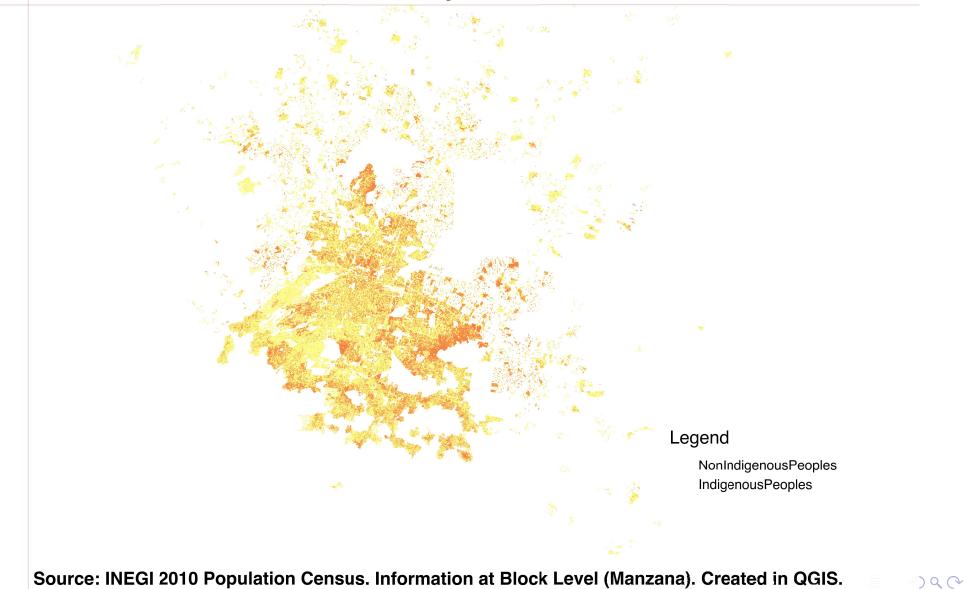
# *Encomienda* as a biased source vs indigenous cartography

Virtually all population counts from 16th and even 17th century come from tribute assessment imperative. The 1550 Map includes key for hierarchy of town population

- Whole communities may appear and disappear from lists (all are incomplete)
- Privileges extended to communities and broad member classes
- migratory processes largely unknown
- reducciones not only about consolidation of surviving populations into planned towns, but reshaping dispersed calpulli settlement patterns
- Escaping legibility from the state (Scott's Art of Being Not Governed)
- Reading the indigenous pictorial sources was lost (at least since 1554)

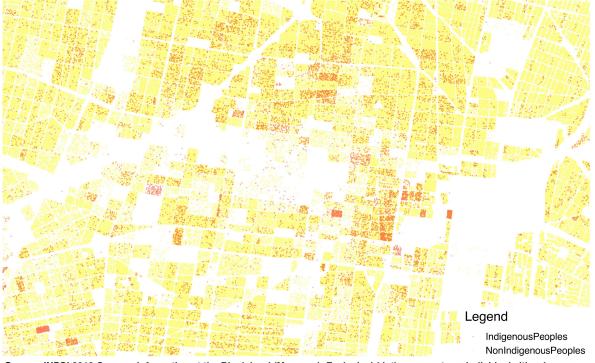
#### An indigenous city even today

#### Dot Density Map of Indigenous Population in the Metropolitan Area of the Valley of Mexico 2010



#### An Indigenous Downtown

#### Dot Density Map of Indigenous and NonIndigenous Population in Downtown Mexico City in 2010



Source: INEGI 2010 Census. Information at the Block level (Manzana). Each pixel (dot) represents an individual either from an indigenous household or a non-indigenous one. Created in QGIS.

Dot map of indigenous dwellers in the Downtown area of what used to be Tenochtitlan and Tlatelolco

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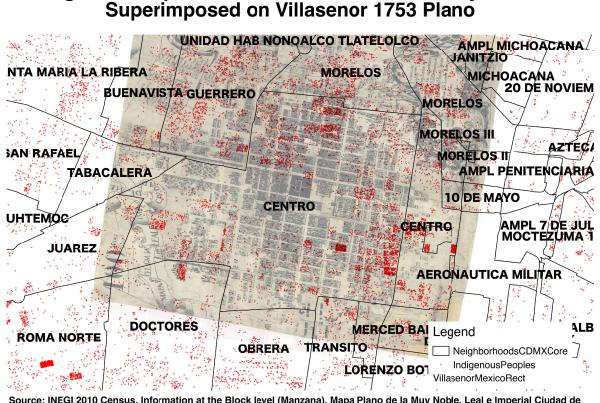
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# The extent of the City at the End of the Colonial Period (1753)

Indigenous Population in Downtown Mexico City in 2010



Source: INEGI 2010 Census. Information at the Block level (Manzana). Mapa Plano de la Muy Noble, Leal e Imperial Ciudad de México, de don José Antonio de Villaseñor y Sánchez, 1753, Mapoteca Orozco y Berra. 908-OYB-725-A. Created in QGIS.

Dot map of indigenous dwellers superimposed on Villasenor 1753 map of the Very Loyal and Imperial Mexico City

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Epidemiological model of indigenous presence at the city block level in Mexico City

- Dependent variables:
  - Members of indigenous households
  - Speakers of indigenous language > 5 years old
  - Speakers of indigenous language > 3 years old
- Independent variables:
  - Population (to estimate rates)
  - Fertility (average children born alive)
  - Schooling (average years of schooling)
  - Longitude
  - Latitude
- Variable of Interest: Distance to *Tecpan*

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#### Distance to Tecpan in Downtown Mexico City



Figure: Geolocation of Tecpan and indigenous population in 2010 at block level

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# Likelihood of indigenous in city blocks in downtown area

	(1)	(2)	(3)	(4)	(5)	(6)
	Poisson			Negative Binomial		
VARIABLES	Household	5yr+	3yr+	Household	5yr+	3yr+
Population	0.00168***			0.00353***		
- 1	(1.47e-05)			(0.000226)		
Fertility	1.114***	1.037***	1.038***	1.431***	1.149***	1.148***
	(0.0179)	(0.0248)	(0.0247)	(0.0799)	(0.0635)	(0.0636)
Schooling	0.0421***	0.0383***	0.0374***	0.0572* <sup>**</sup>	0.0289***	0.0294**́*
	(0.00351)	(0.00472)	(0.00469)	(0.0127)	(0.0102)	(0.0102)
Longitude	`-0.460 ´	-7.347** <sup>*</sup>	-7.517** <sup>*</sup>	-8.110***	-15.23**´*	-15.30***
	(0.735)	(1.007)	(1.003)	(3.021)	(2.434)	(2.434)
Latitude	-9.983***	-11.23***	-11.40***	-13.12***	-14.84***	-14.96***
	(0.509)	(0.720)	(0.718)	(1.902)	(1.626)	(1.626)
Distance	-26.20***	-29.30***	-29.35***	-33.15***	-37.93***	-37.91***
	(1.495)	(2.071)	(2.064)	(5.637)	(4.759)	(4.759)
5yr+ Pop		0.00176***			0.00354***	
		(2.21e-05)			(0.000149)	
3yr+ Pop			0.00172***			0.00344***
			(2.14e-05)			(0.000145)
Constant	147.7**	-511.4***	-524.9***	-550.9*	-1,223***	-1,228***
	(74.10)	(101.9)	(101.5)	(301.3)	(244.0)	(244.0)
Observations	2,704	2,704	2,704	2,704	2,704	2,704

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### Distance to Tecpan in Surrounding Valley of Mexico City

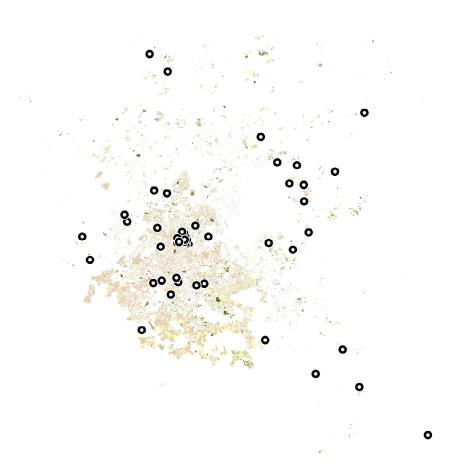


Figure: Geolocation of Tecpan and indigenous population in 2010 at block level in ZMVM

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# Likelihood of indigenous concentration surrounding the city

	(1)	(2)	(3)	(4)	(5)	(6)
VARIABLES	Household	5yr+	3yr+	Household	5yr+	Зу́r+
xxpobtot	0.000670***			0.00415***		
	(1.23e-06)			(6.04e-05)		
xxpromhnv	1.065***	1.030***	1.032***	2.074***	1.490***	1.487***
	(0.00182)	(0.00285)	(0.00284)	(0.0118)	(0.00995)	(0.00995)
escol	-0.0179***	0.0162***	0.0170***	0.00685**	0.0141***	0.0154***
	(0.000671)	(0.00106)	(0.00106)	(0.00296)	(0.00248)	(0.00247)
coord_x	-0.533***	-1.021***	-1.013***	-0.241***	-0.713***	-0.725***
	(0.0170)	(0.0259)	(0.0258)	(0.0688)	(0.0612)	(0.0612)
coord_y	-2.168** <sup>*</sup>	-2.170** <sup>*</sup>	-2.160***	-1.402***	-1.496***	-1.496***
	(0.0143)	(0.0220)	(0.0219)	(0.0516)	(0.0475)	(0.0475)
near_dist	-0.757***	-2.182***	-2.174***	-0.665***	-1.403***	-1.459***
	(0.0567)	(0.0878)	(0.0875)	(0.204)	(0.187)	(0.187)
xxp5ymas	()	0.000694***	()	()	0.00573***	()
		(1.87e-06)			(5.45e-05)	
xxp3ymas		(10/0/00)	0.000697***		(01100 00)	0.00554***
, apoynao			(1.85e-06)			(5.27e-05)
Constant	-11.39***	-60.69***	-60.16***	0.289	-44.96***	-46.15***
	(1.641)	(2.507)	(2.501)	(6.705)	(5.968)	(5.967)
	(1.011)	(2.007)	(2.001)	(0.700)	(0.000)	(0.007)
Observations	159,671	159,671	159,671	159,671	159,671	159,671
		Standard	errors in parenth	neses		
			1, ** p<0.05, * p			

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Indigenous Identity and Colonial Rule

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### An indigenous city not a Spanish one

#### Indigenous Presence in the Uppsala Map of Mexico in 1550: Tecpan and Indian Dwellings.



Source: Own geocoding and rectification based on the Digital Facsimile from Systems of Representation, Lily Diaz et al. http://sysrep.aalto.fi/demo2015/mexico.html

Geocoded Tenochtitlan and Tlatelolco Areas of the Map of Mexico City in 1550

Tecpan and indigenous dwellings

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- Are these indigenous peoples new migrants or service workers?
- Some areas have been resettled over the centuries, mechanism of persistence?
- Identifying assumption: *Tecpans* are not longer visible since 19 century, cannot account for persistent identity, except through the proposed channel of empowerment

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