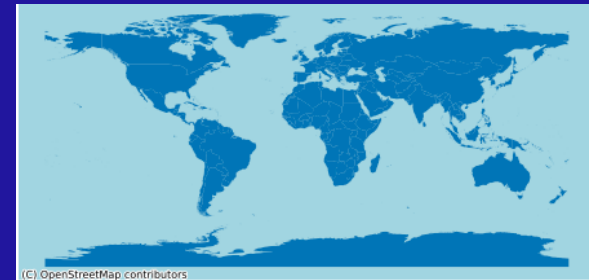
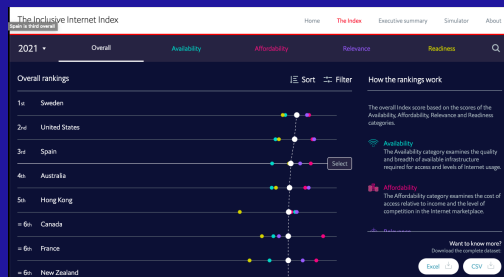


Lagged Connections: Exploring the Spatial Distribution of Internet Access + Usage in 2021

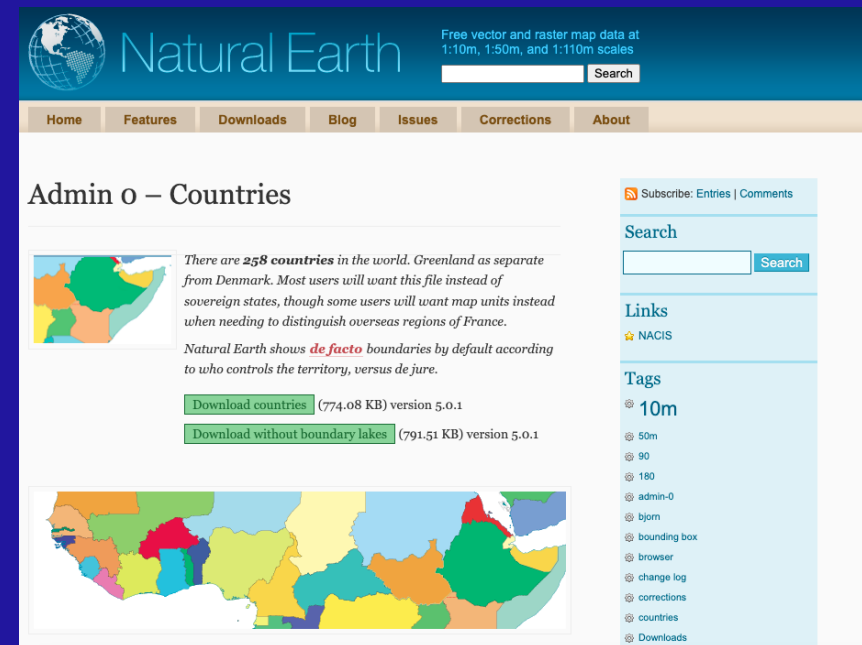
Avery Jonas
Pratt Institute
Spatial Statistics



The Data

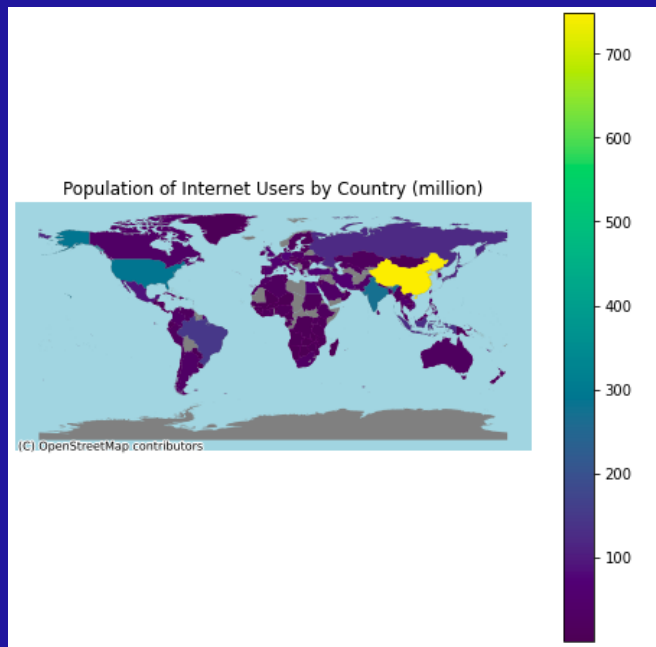


“The **Inclusive Internet Index**, commissioned by Facebook and developed by The Economist Intelligence Unit, seeks to measure the extent to which the Internet is not only accessible and affordable, but also relevant to all, allowing usage that enables positive social and economic outcomes at the individual and group level.”



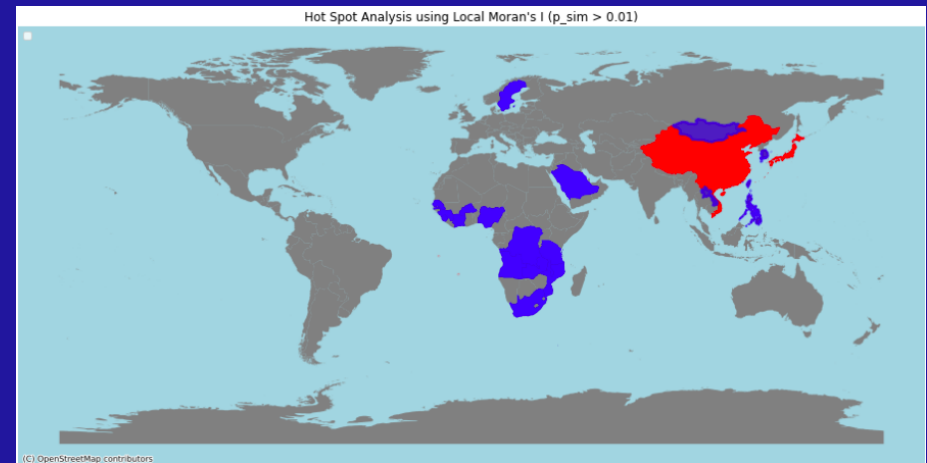
Vector files for recognized sovereign nations

Population of Internet Users by Country



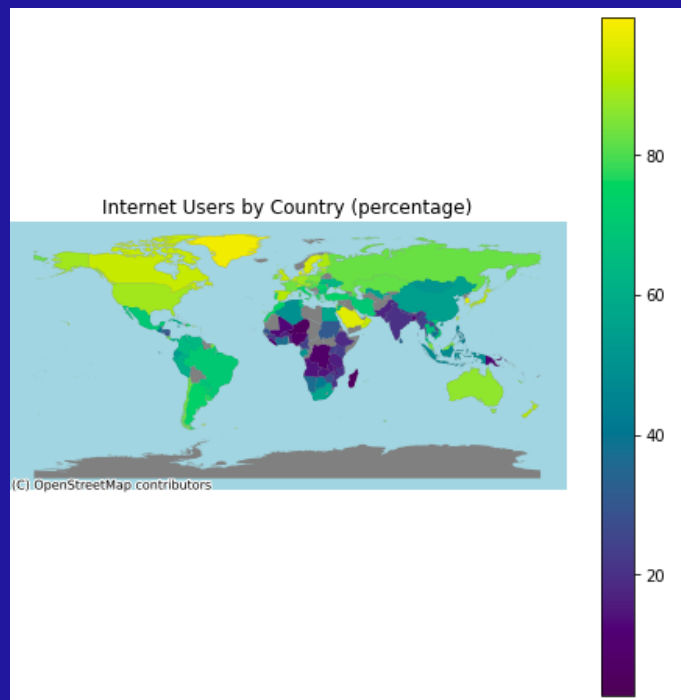
Moran's I statistic = 0.193 -> little to no global spatial autocorrelation

p-value = 0.0009 -> reject null hypothesis

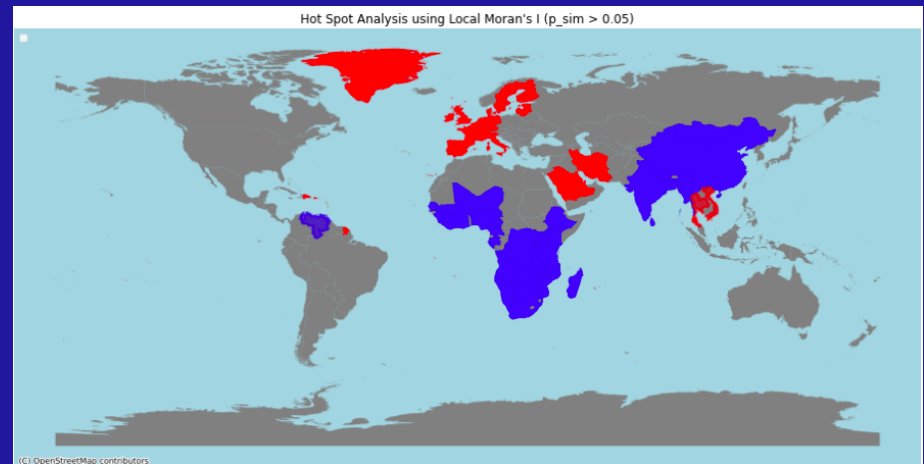


China, Vietnam and Japan are hot spots, while Sweden, Saudi Arabia, and parts of West Africa and southern Africa are cold spots. Smaller East Asian countries are doughnuts.

Percentage of Internet Users by Country

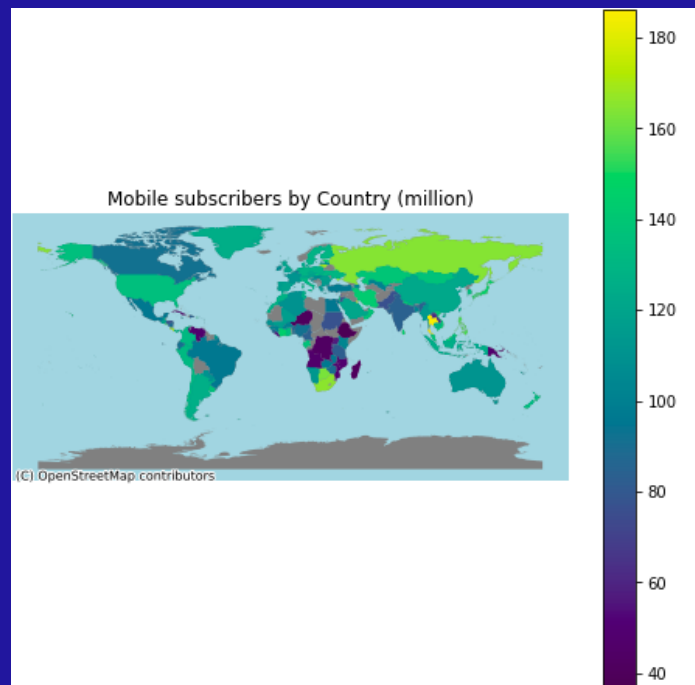


Moran's I statistic = 0.705 -> positive global spatial autocorrelation
p-value = 0.0001 -> reject null hypothesis

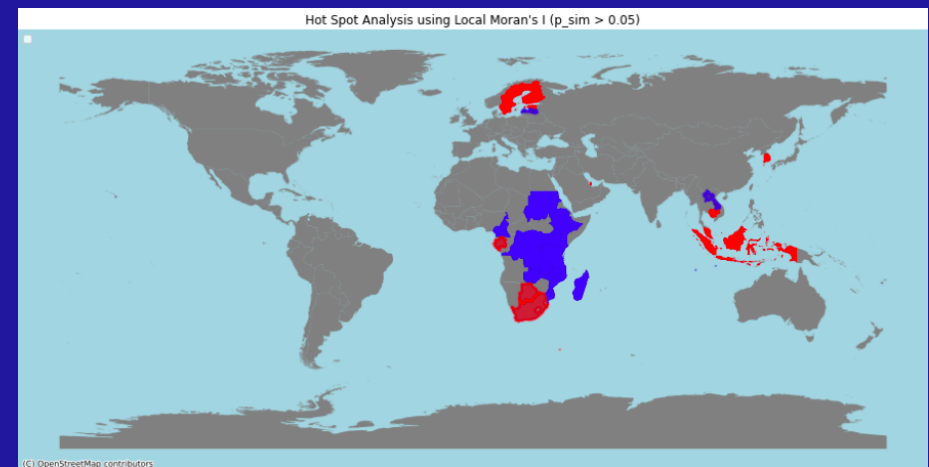


Most of Europe, Saudi Arabia, Iran, and parts of the Caribbean are hotspots. West, Southern, and East Africa as well as most of Asia are coldspots. Venezuela is a doughnut.

Mobile Subscribers by Country



Moran's I statistic = 0.23 -> very little global spatial autocorrelation
p-value = 0.0001 -> reject null hypothesis



Sweden, Finland, Indonesia, Malaysia, Cambodia and South Korea are hotspots. East and Central Africa are coldspots, while Southern Africa and Gabon are diamonds. Laos is a doughnut.

THANK YOU!