Today's topic:

Literacy worldwide

Background:

(none)

0. Key points today

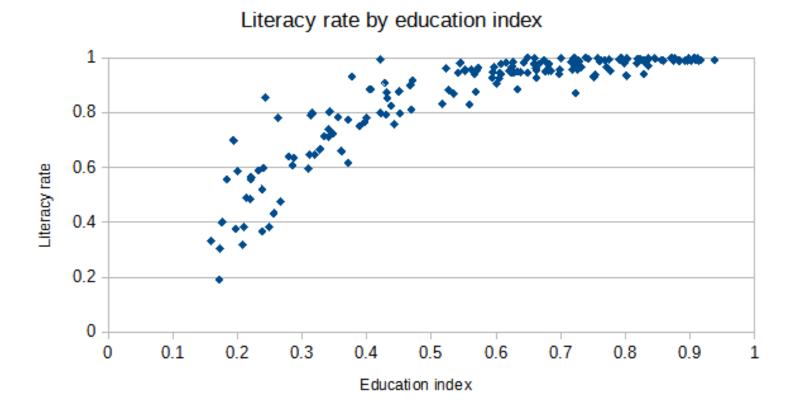
- Literacy rates around the world
- Early reading education in a few sample locations
- Literacy rates in the US, revisited
 - National Assessment of Educational Progress (NAEP)
- A look at the Cherokee writing system

1. Literacy rates worldwide

- Data and maps from <u>Data Pandas</u>
 - How is "literacy" defined here?
 - Is the definition satisfying?
 - What are some **factors** that appear to influence literacy rates in this data set?
 - Compare this map
 - Or this map

1. Literacy rates worldwide

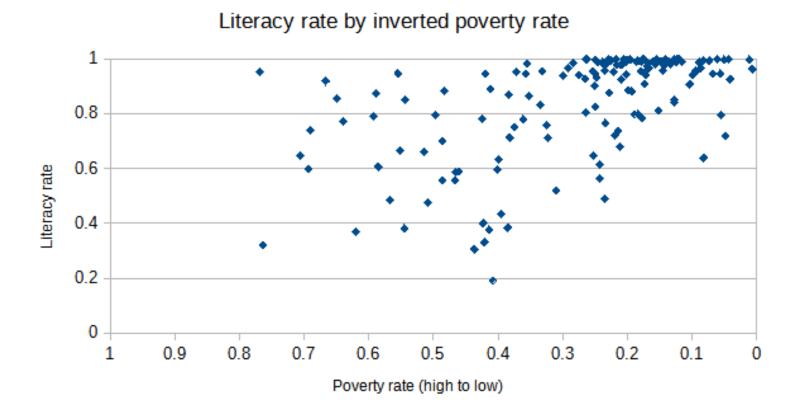
How highly does literacy correlate with education?



education index data from Data Pandas

1. Literacy rates worldwide

How highly does literacy correlate with poverty?



poverty rate data from Data Pandas

2. Orthographic depth, revisited

Country	Majority language	Orthographic depth	Education index	Literacy rate
Alphabetic writing systems				
Finland	Finnish	shallow	0.91	100%
Spain	Spanish	shallow	0.72	98%
Guatemala	Spanish	shallow	0.31	79%
France	French	deep	0.76	99%
USA	English	deep	0.88	99%
Non-alphabetic writing systems				
Japan	Japanese	deep	0.83	99%
China	Mandarin	deep	0.57	96%

Literacy rate, education index data from Data Pandas

2. Orthographic depth, revisited

 Amount of time spent on different school subjects in elementary school, in <u>Japan</u>

- In Finland, reading instruction begins at age 7
 - 6-year-olds do <u>phonological awareness</u>, though

3. Literacy rates in the US

- We've seen claims about how many fourth graders read at a basic or proficient level in the US
 - Example from <u>Hanford (2018)</u>
- What is the data behind these claims?
 - NAEP (National Assessment of Educational Progress) web site — lots of data and graphics
 - Some <u>controversy</u> about NAEP benchmarks?

4. Cherokee

- <u>Cherokee</u>: an endangered language
 - Indigenous to western NC
 - Now spoken in Oklahoma (Western Cherokee) and NC (Eastern Cherokee)

4. Cherokee

- What kind of writing system does Cherokee use? (see <u>handout</u>)
 - Some possibilities: Each glyph (symbol) represents...
 - a phoneme (consonant or vowel)
 - a syllable
 - a morpheme
- Can you make a "key" that matches the units of the Cherokee writing system to their transliteration into the Roman (English) alphabet?