

thematic maps

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outline

classification methods

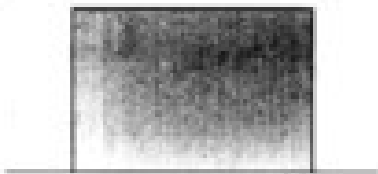
thematic mapping

outline

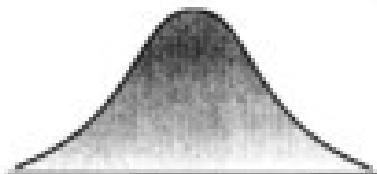
classification methods

thematic mapping

distribution/histogram



A



B



C



D

reference

- pdf p7: creating classes
- https://theaok.github.io/gisPy/thematic_map_design.pdf

classification methods

- always understand the distribution—use hist!
- think about it, discuss and motivate classification meth
- (at least of main var; i'll cut points)
- i like NATURAL BREAKS/JENKS, maybe QUANTILES
- usually more “truthful” than equal intervals
- start with many, say 7, then shrink it to say 5 or 3 without losing too much detail
- make it as clean and simple as possible
- still, do explore the distribution and play with it, categorize differently
- always let the data speak! do not force your story

outline

classification methods

thematic mapping

variable definitions

- be very clear about what you are measuring
 - put on the map, in description, or into appendix, but have to have it somewhere!
 - eg do we have small breweries that are at some bars?
how exactly is a brewery defined?
 - eg what is exactly a bike lane—incl paths in parks?
does it have to be designated for bikes only?
and paths not for bikes but used by bikes?
 - ideally map them all!

map labeling: clarity and simplicity!

- always have a self explanatory title/caption and legend
- self-explanatory means a random person will understand what it's about
- in other words it will pass “a grandma test”
 - give it to your grandma and she'll get it
 - if she doesn't, then it isn't clear enough

always think abt the meaning; interpret!

- always interpret the map, think about what it means
 - usually want to standardize to achieve meaningfulness
- standardize by area (“per sq km”) or by pop (“per capita”)
- or even: specific (eg habitable) area; specific (eg disadvantaged) pop
 - eg much of area may be water or forest, so hydrants/inhabited sq km
 - similar with populations-they may only work or sleep in some area, (Cherry Hill is a bedroom city) etc
 - eg Cape May has many liquor stores per capita (just because nobody lives there)

let the data speak, but you pick the story!

- data have always many stories to tell
 - and you choose which one you want to present
- say may emphasize extremes with dramatic colors
 - eg purple for values way different from everything else
 - (for intervention, disaster response, etc)
- or paint the gradient, where values raise and level off etc
 - like my urban-rural happiness gradient
- also in space: clusters of happiness: <https://link.springer.com/content/pdf/10.1007/s11205-010-9671-y.pdf>
 - (still using alt classifications for robustness)
 - (and std dev in addition to levels)