Working with Data A Workshop on Understanding, Visualising and Mapping Data Chennai, 3-5 August 2012

First day 3rd August 2012

- 1. What is data?
- 2. What are data formats?
- 3. Presentation by Prajnya
- 4. What can be done with data?
- 5. Working with quantitative data
- 6. Working with spatial data

[10:30-11:15] [11:30-12:00] [12:15-12:45] [14:00-14:45] [15:00-15:45] [16:00-16:45]

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What is not data?

An attempt at negative definition

What is data?

- it depends upon the context

- it depends upon the question
- it depends upon the answer

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Uses of data

- description
- argument
- documentation or archival

- quantitative (textual)
- qualitative (textual)
- spatial
- media (non textual, sensory)

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analog / digital
open / closed

- analog / digital
- open / closed

Open data

- License: who owns? what can be done with it?
- Freedoms: what freedoms are associated with it?
 - freedom to use
 - freedom to modify
 - freedom to redistribute
 - freedom to redistribute modifications
- Creative Commons
 - attribution or not
 - commercial or non-commerical use
 - share alike or not

Open data

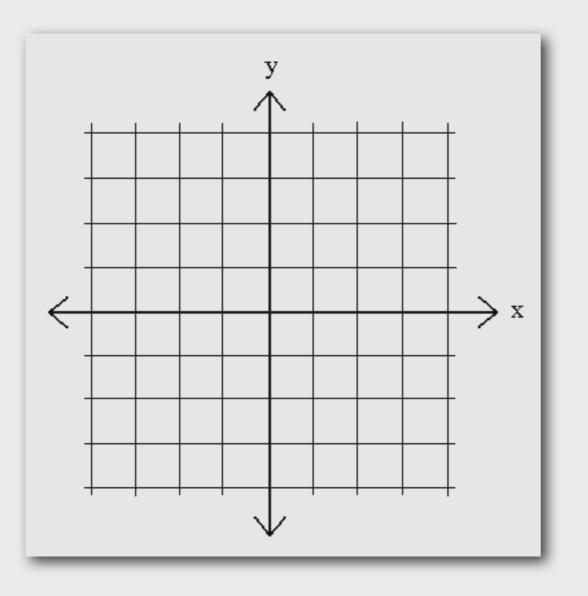
- License: who owns? what can be done with it?

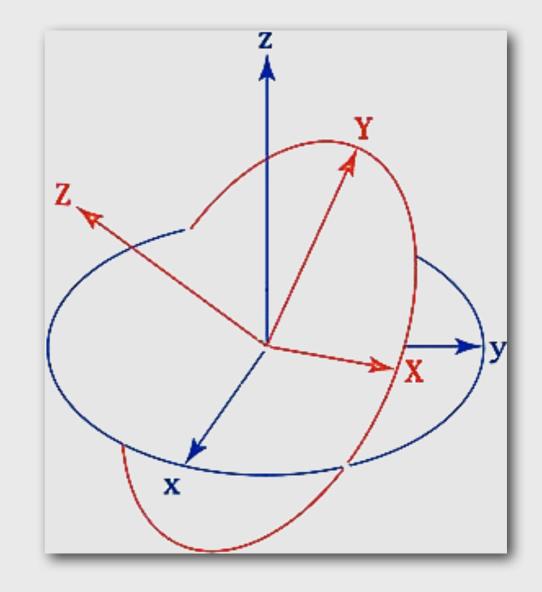
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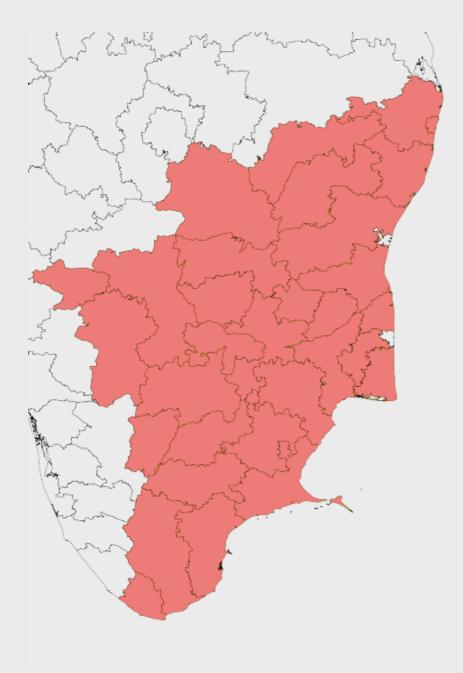
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What is Spatial Data?





Any data that describes the location of features and boundaries



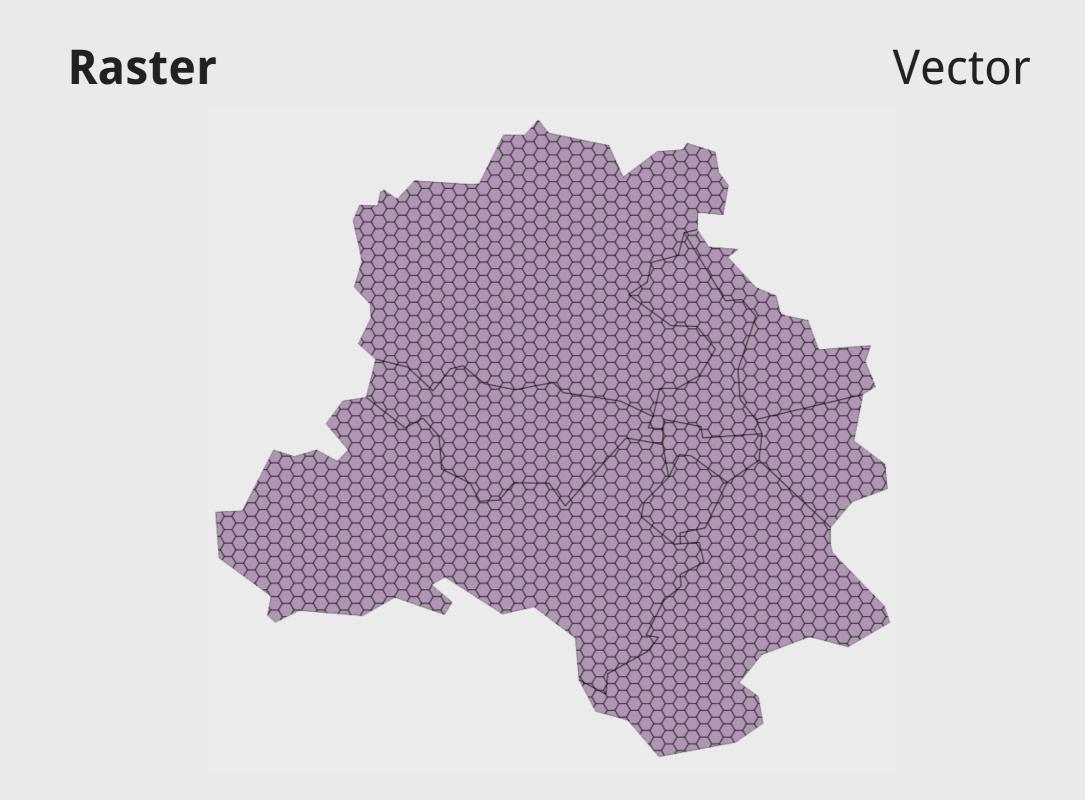
20	Nagapattinam	Tamil Nadu
21	Sivaganga	Tamil Nadu
22	Namakkal	Tamil Nadu
23	Coimbatore	Tamil Nadu
24	Cuddalore	Tamil Nadu
25	Ramanathapuram	Tamil Nadu
26	Nilgiri	Tamil Nadu
27	Kancheepuram	Tamil Nadu
28	Madurai	Tamil Nadu
29	Thanjavur	Tamil Nadu

Types of Spatial Data

Raster

Vector

Types of Spatial Data

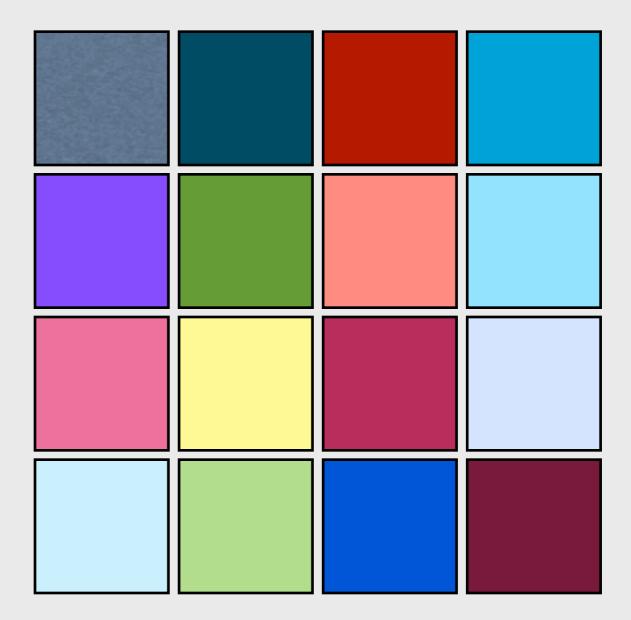


Raster Spatial Data

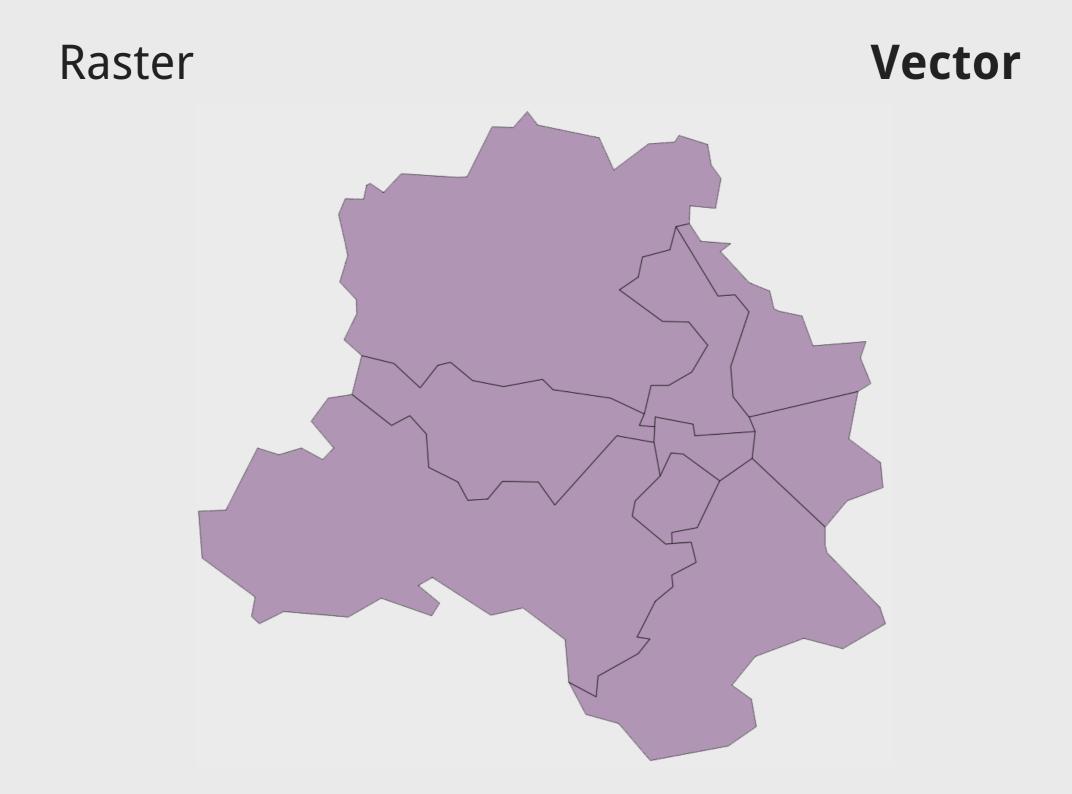
Grid Cell Data

Row and Column [X/Y/(Z)]

Single Attribute



Types of Spatial Data

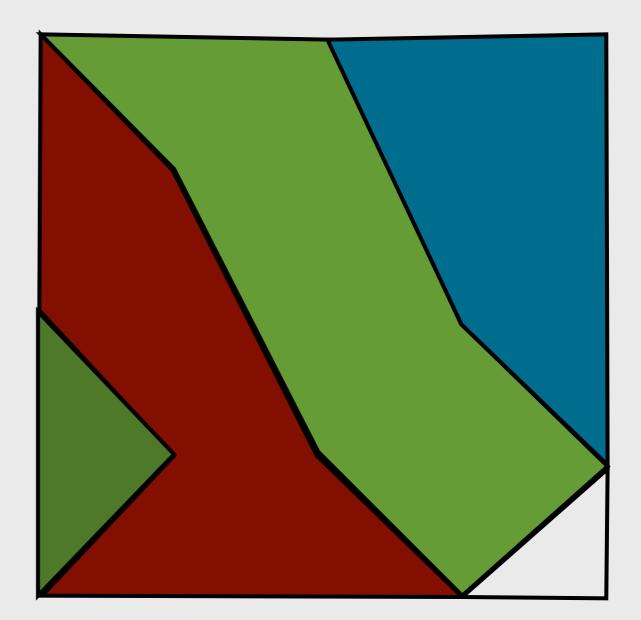


Vector Spatial Data

Point, Line and Polygon

Nodes and Vertices [X/Y/(Z)]

Multiple Attributes



Vector Spatial Data

Point, Line and Polygon

Nodes and Vertices [X/Y/(Z)]

Multiple Attributes

