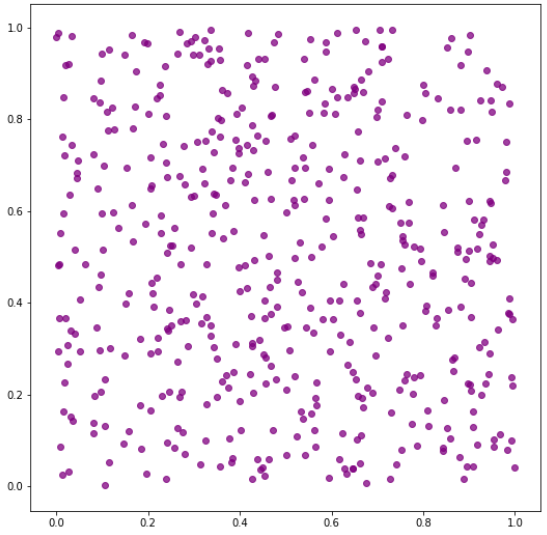
# Geographic Data Science

## Geographical Containers for Data

Dani Arribas-Bel

**M**odifiable **A**real **U**nit **P**roblem (Openshaw, 1984)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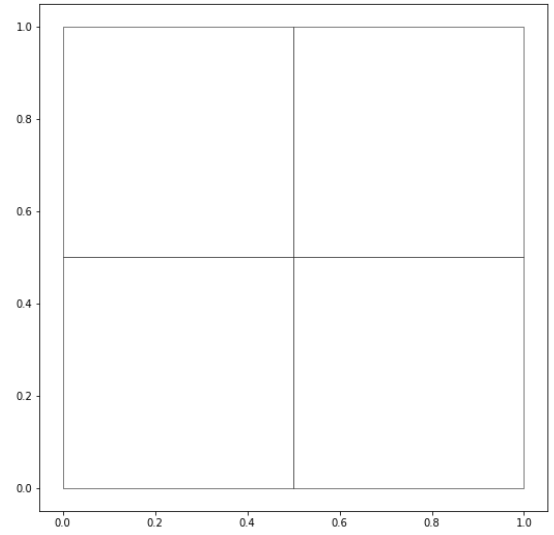
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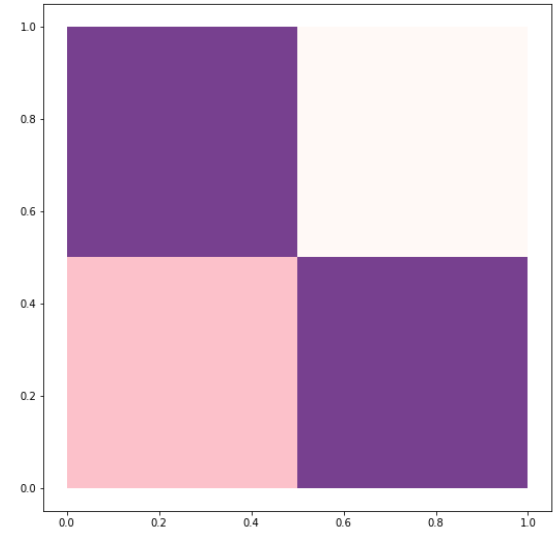
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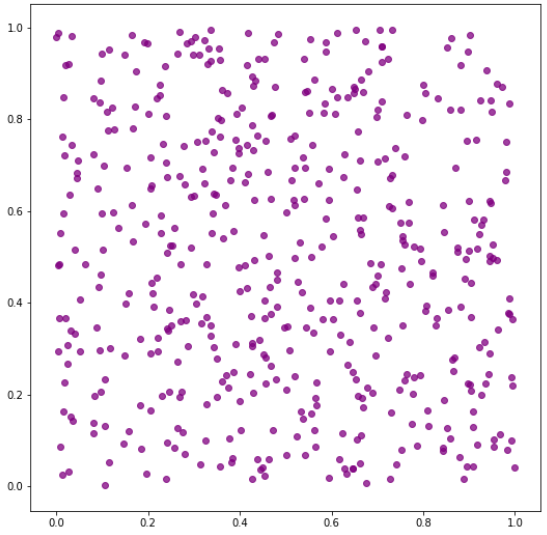
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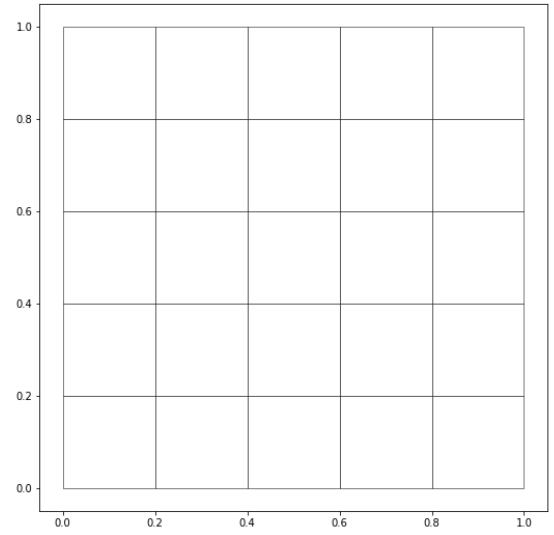
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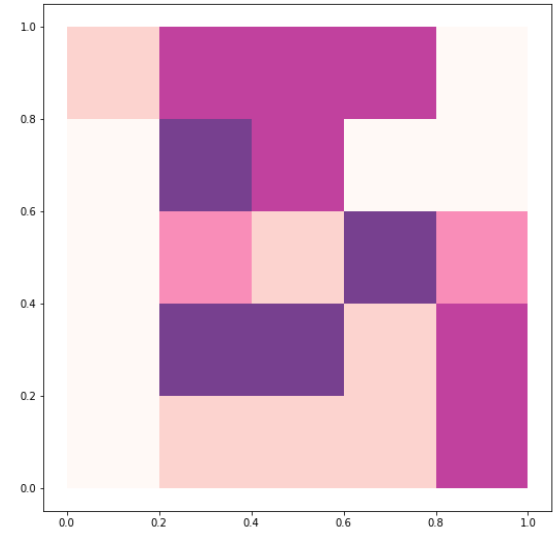
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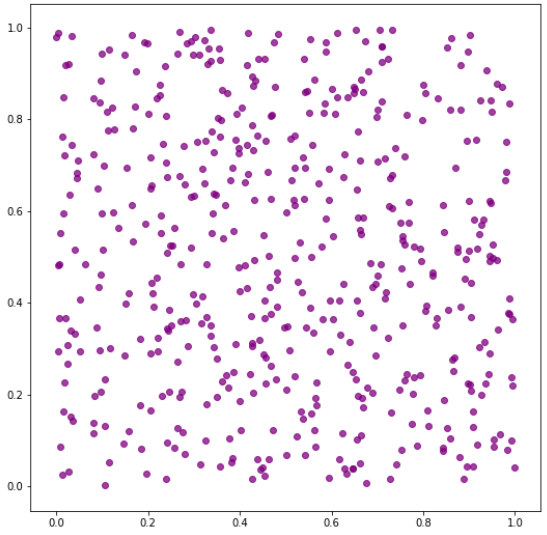
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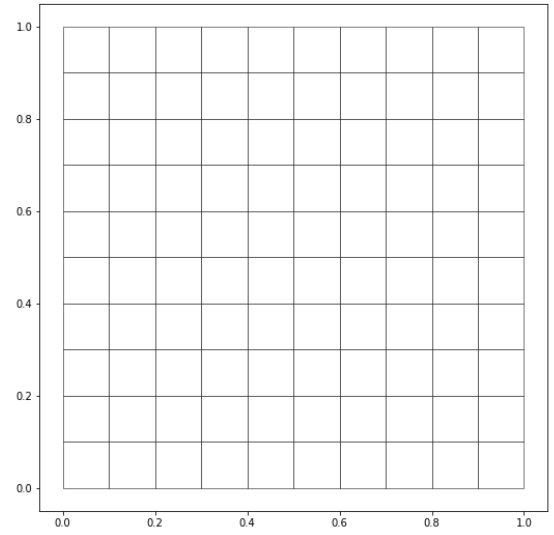
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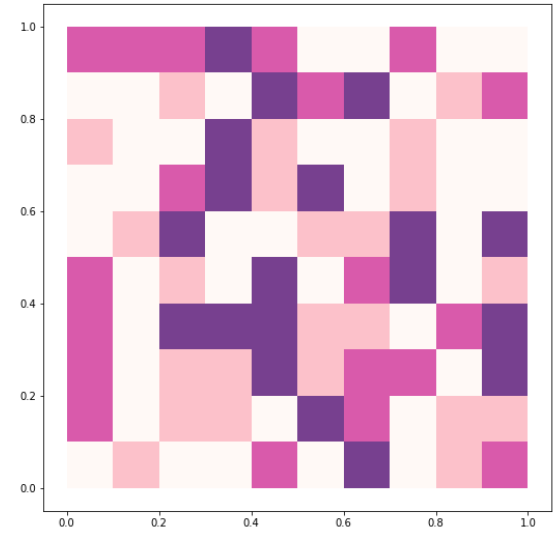
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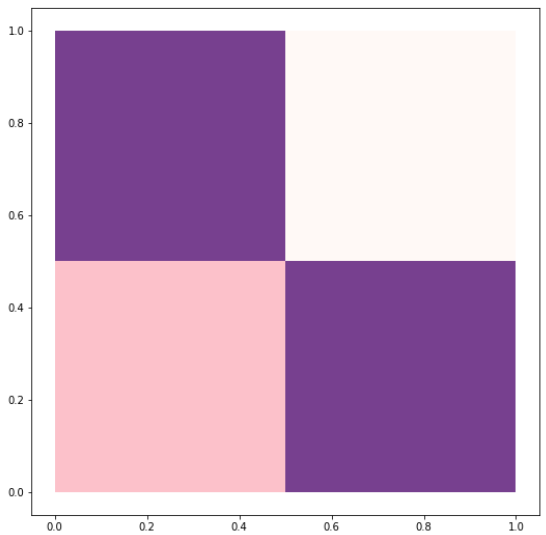
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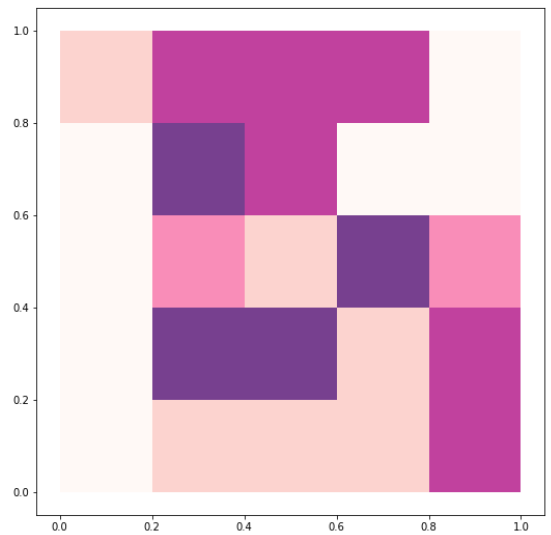
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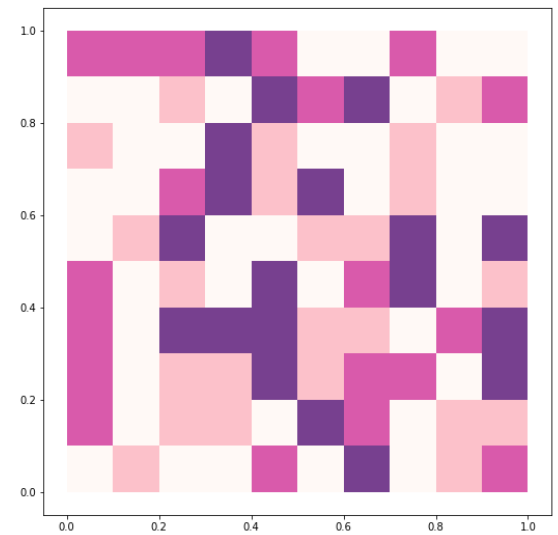
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# MAUP

**Scale** and **delineation mismatch** between:

- Underlying process (e.g. individuals, firms, shops)
- Unit of measurement (e.g. neighborhoods, regions, etc.)

In some cases, it can **seriously mislead** analysis on aggregated data (e.g. Flint, MI!!!)

Always keep **MAUP** in mind when exploring aggregated data!!!

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