

A vertical decorative bar on the left side of the slide, consisting of a dark blue central column wrapped in a light blue and green gradient ribbon that spirals upwards.

Mapping Postcodes

Steve King
IS Development

Mapping Postcodes

* Construction of Postcodes

- Address Locations
- Wards / Electoral Divisions
- Parishes / Communities
- Other Boundaries

* Difficult postcodes

- Problems and Solutions

Address Locations

* Prototype

- used Address Point™ grid references identified as likely to be residential

* Live system

- will use all addresses identified during enumeration using manually updated grid references where necessary

Boundaries

* Two processes:

- Create synthetic postcode boundaries around address locations, within ward and parish
- Adjust boundaries to follow road centre lines (OSCAR™) and 2001 EDs

* Both processes are fully automatic

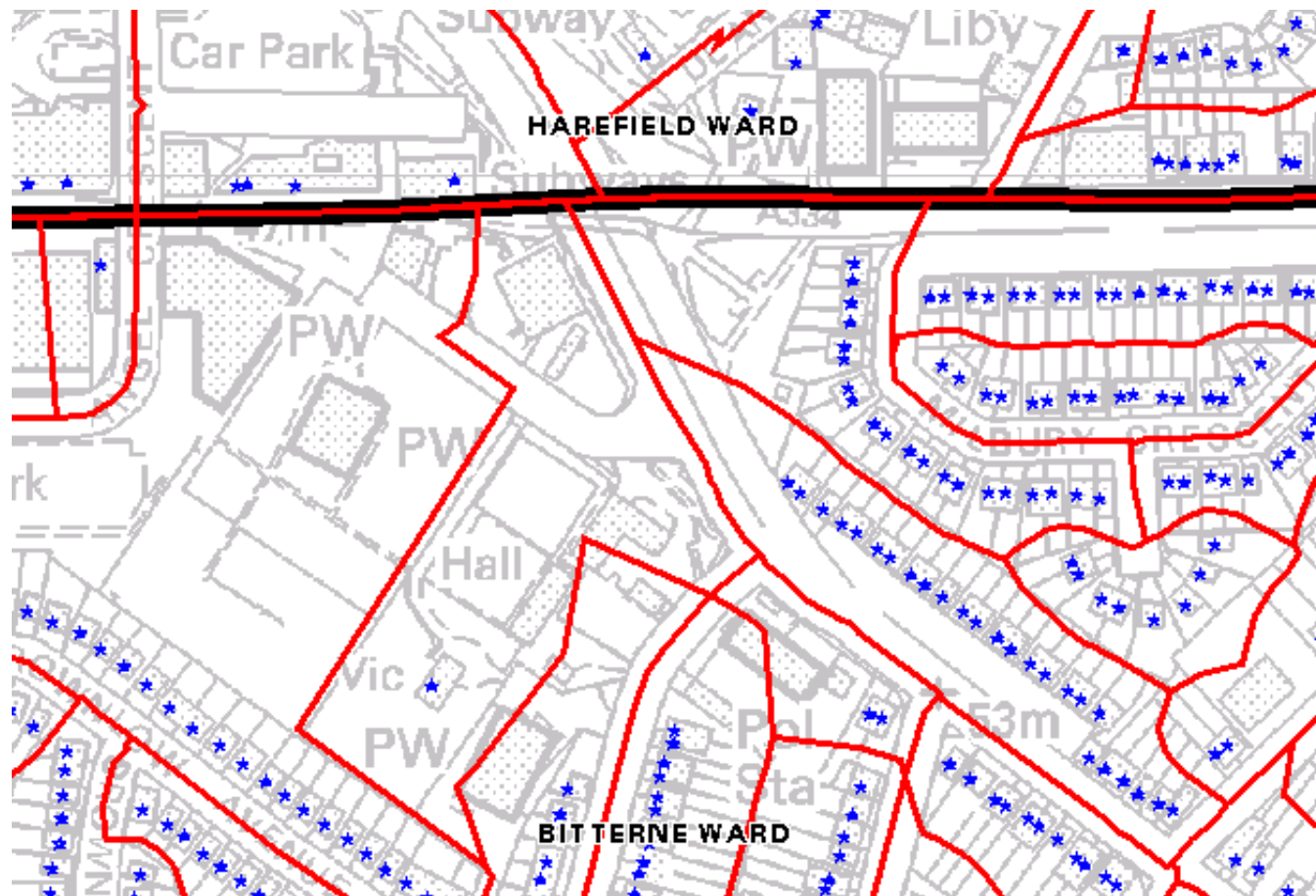
Ward and Parish

- * Postcodes always fit to ward and parish
- * If a postcode crosses a ward or parish it is split in two
- * If the addresses are all on one side, the postcode will snap to the ward or parish boundary

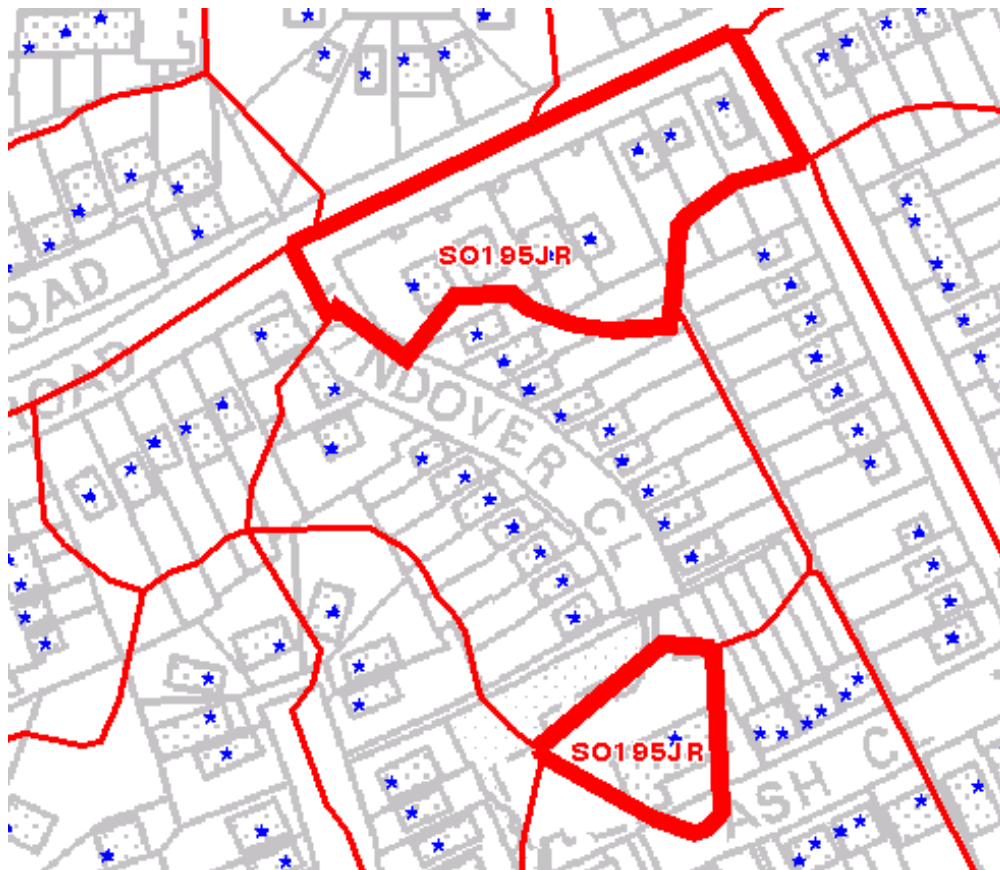
Other Boundaries

- ✱ To improve boundaries, postcodes "snap" to:
 - Road centre-lines (OSCAR)
 - 2001 Census ED boundaries
- ✱ Provided addresses do not cross the road or ED boundary

Final Postcodes



Split Postcodes



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✧ Problem

- Both parts of the postcode must belong to one OA

Problems and Solutions

- * May not be able to join them
- * Joining them might result in a large population
- * Solution
 - One part is automatically recoded if it only contains one address, and too far from remaining part of postcode
 - Exceptionally use manual override

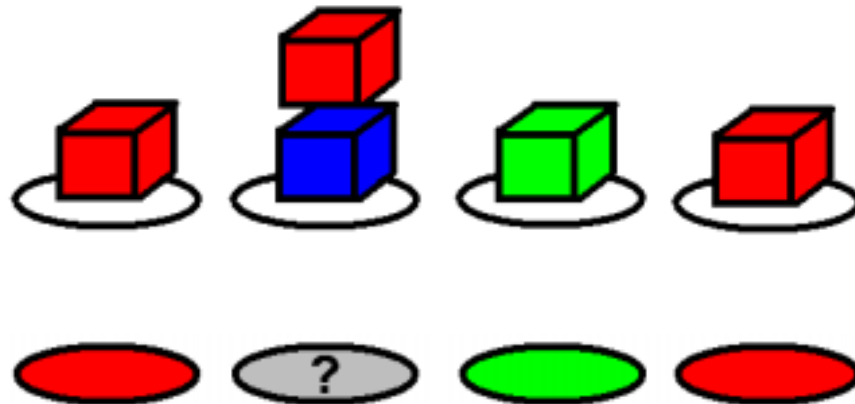
Stacked Postcodes

- * Occur when two or more addresses at the same point have different postcodes
- * Problems:
 - Danger of postcode being hidden at bottom of stack and missed
 - Cannot have three-dimensional or overlapping postcode boundaries

Solution

- * Give a pseudo-postcode to represent all the postcodes in the stack
- * However this creates a new problem
 - ...
 - Likely to contain more people than a single postcode
 - A stacked postcode may also be a split postcode

Stacked Postcodes - II



* Problems:

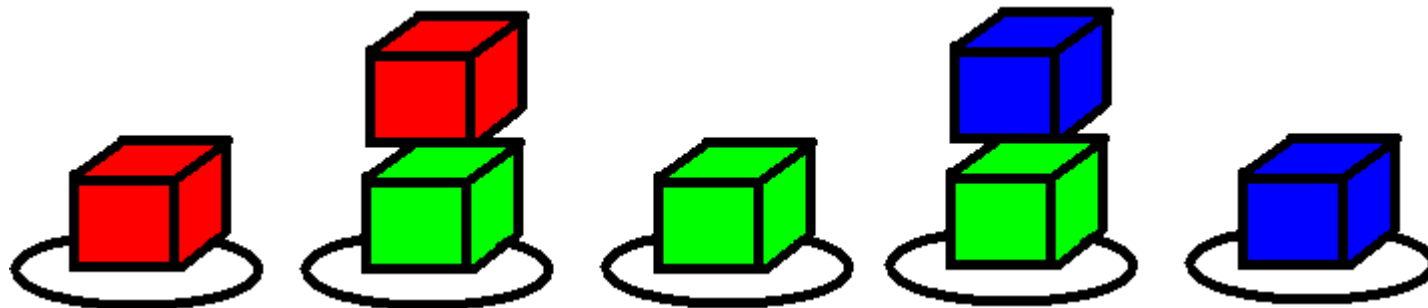
- Create a stack containing the red and blue postcodes?

- * Red postcode is split by the green
- * Postcode is both stacked and split
- * All three postcodes will have to be placed together

Overlapping Postcodes

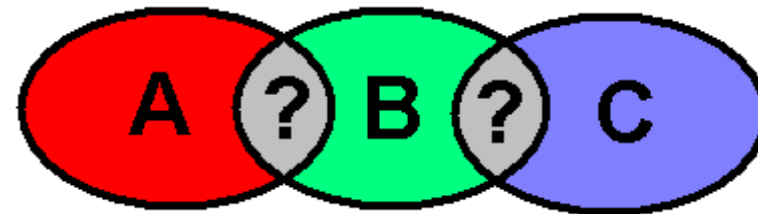
* Assume

- Postcode A and B overlap at one address
- Further down the road B overlaps C

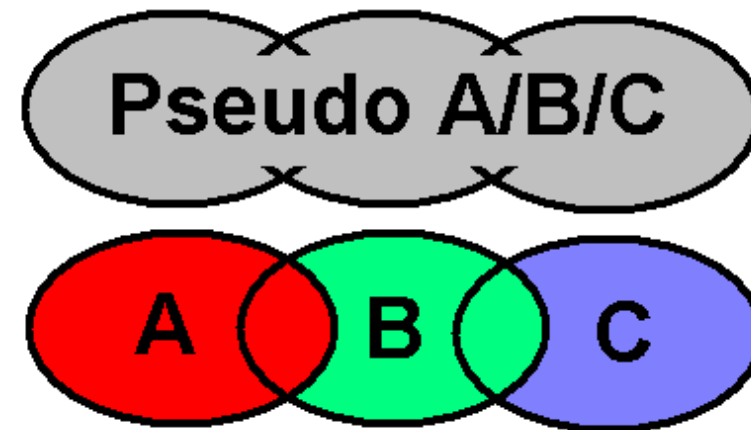


Bird's Eye View

* Postcodes



* Two Options





Summary

- ✧ Postcodes always fit to ward and parish
- ✧ Follow ED and road-centre lines where possible
- ✧ Identified and fixed problems caused by split, stacked and overlapping postcodes