## Identifying Patterns and Outliers in Census Data

Prof Chris Brunsdon University of Glamorgan Overview

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Townsend Scores
Weighting Schemes
Visualisation
Examples
Conclusion

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## The Scoring Procedure

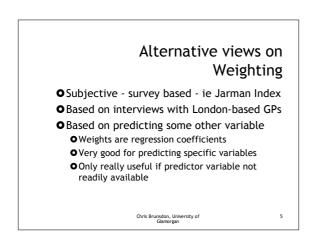
 Transform variables
 Log(x+1) for all except no home ownership sqrt(x) in that case

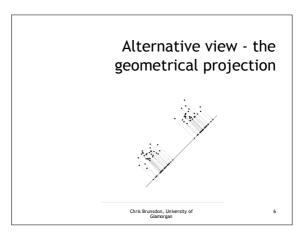
• Take z-scores

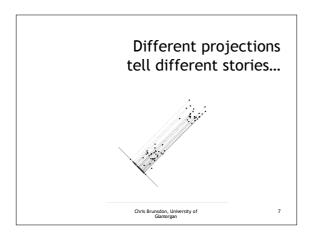
 $oldsymbol{\Theta}$  Add them together

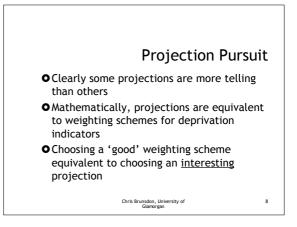
• Implicitly each variable is weighted equally • Is that sensible?

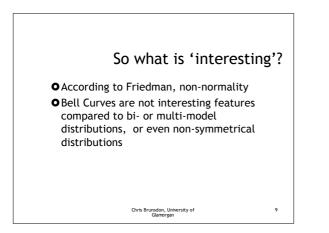
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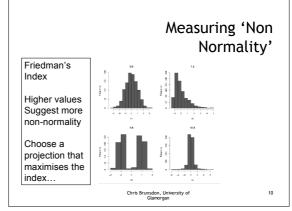


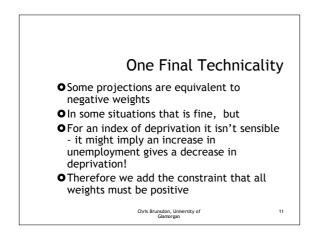












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Variable	Weighting	
Unemployment	0.17	
No Car Households	0.12	
Non home ownership	0.00	
Crowding	1.43	

