

# Indicator, Index and Provenance Graph of Household Wealth



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# Concept and Proxys

Wealth in the United Kingdom

Build an indicator using four variables from two datasets:

Lime Group		Violet Group	
Name	Data Type	Name	Data Type
Parental higher education	Nominal variable	Yearly income	Integer
Duration of ownership of house	Ordinal variable	Property current value	Integer



# Wealth Indicator

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$$\text{Formal Expression} = \sum_{i=1}^n W_i X_i$$

Example:  $0.00003(X_1) + 0.12(X_2) + 0.000005(X_3) + 0.08(X_4)$

Where:

$X_1 \rightarrow$  Yearly income

$X_2 \rightarrow$  Parental higher education

$X_3 \rightarrow$  Valuation of primary household

$X_4 \rightarrow$  Duration of ownership

# Provenance Graph

