## PLINX202 ENGLISH ACCENTS

## Week 5. Statistical analysis

Investigating the variants of a phonological variable and correlating them with nonlinguistic variables. For example, (h) is defined as a phonological variable, with variants (h)-0 (phonetic zero) and (h)-1 (phonetic [h]). Non-linguistic variables might include social class, sex, and age.

1. H dropping. Percentages of dropped $/ \mathrm{h} / \mathrm{in}$ London schoolchildren (Hudson \& Holloway 1977); by class and sex
middle class
working class
boys girls

14
81

6
18
2. The -ing variable. Percentages of alveolar forms in Norwich (Trudgill 1974), formal style; by class and sex

|  | men | women |
| :--- | :---: | :---: |
| MMC | 4 | 0 |
| LMC | 27 | 3 |
| UWC | 81 | 68 |
| MWC | 91 | 81 |
| LWC | 100 | 97 |

ditto, by class and style
word list reading passage formal convers. casual conversation

| MMC | 0 | 0 | 3 | 28 |
| :--- | :---: | :---: | :---: | :---: |
| LMC | 0 | 10 | 15 | 42 |
| UWC | 5 | 15 | 74 | 87 |
| MWC | 23 | 44 | 88 | 95 |
| LWC | 29 | 66 | 98 | 100 |

3. Bird and "boyd" in New York City. Relates to words in list (a), not (b).
(a) bird, nurse, first, certain, permit... (b) stir, her, occurred, stirring...

Older variant [3ı], newer [3]. Percentages of [3ı] forms in NYC (Labov, 1966), by age:
age $8-19 \quad 4$

20-39 24
40-49 33
50-59 59
60+ 100
4. (ou) in Milton Keynes. Coat, moan etc. (ou)-0 [o: ou] Northern, Scottish etc.; (ou)-1 [ $\mathrm{ev}, \mathrm{e} \ddot{\mathrm{u}}]$ older Bucks., London; (ou)-2 [æץ] fronting; (ou)-3 [æı] fronting and unrounding
(ou)-2
30.2
53.6
68.6

12-year-olds
28.2
60.0
37.3
(ou)-3
13.5
12.9
3.0
3.5

