

CHAPTER 2: CLUSTER ANALYSIS

Output from analysis of English dialect data

Single Linkage

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
1	2	7	75.000	0	0	6
2	21	24	73.000	0	0	3
3	21	25	72.000	2	0	9
4	13	17	72.000	0	0	11
5	5	6	71.000	0	0	6
6	2	5	71.000	1	5	7
7	1	2	71.000	0	6	8
8	1	8	69.000	7	0	15
9	20	21	68.000	0	3	12
10	15	16	68.000	0	0	11
11	13	15	64.000	4	10	13
12	19	20	63.000	0	9	22
13	13	14	63.000	11	0	19
14	9	11	63.000	0	0	16
15	1	10	61.000	8	0	18
16	9	18	60.000	14	0	17
17	9	12	60.000	16	0	18
18	1	9	60.000	15	17	19
19	1	13	59.000	18	13	20
20	1	4	59.000	19	0	21
21	1	23	58.000	20	0	23
22	19	22	58.000	12	0	24
23	1	3	58.000	21	0	24
24	1	19	57.000	23	22	0

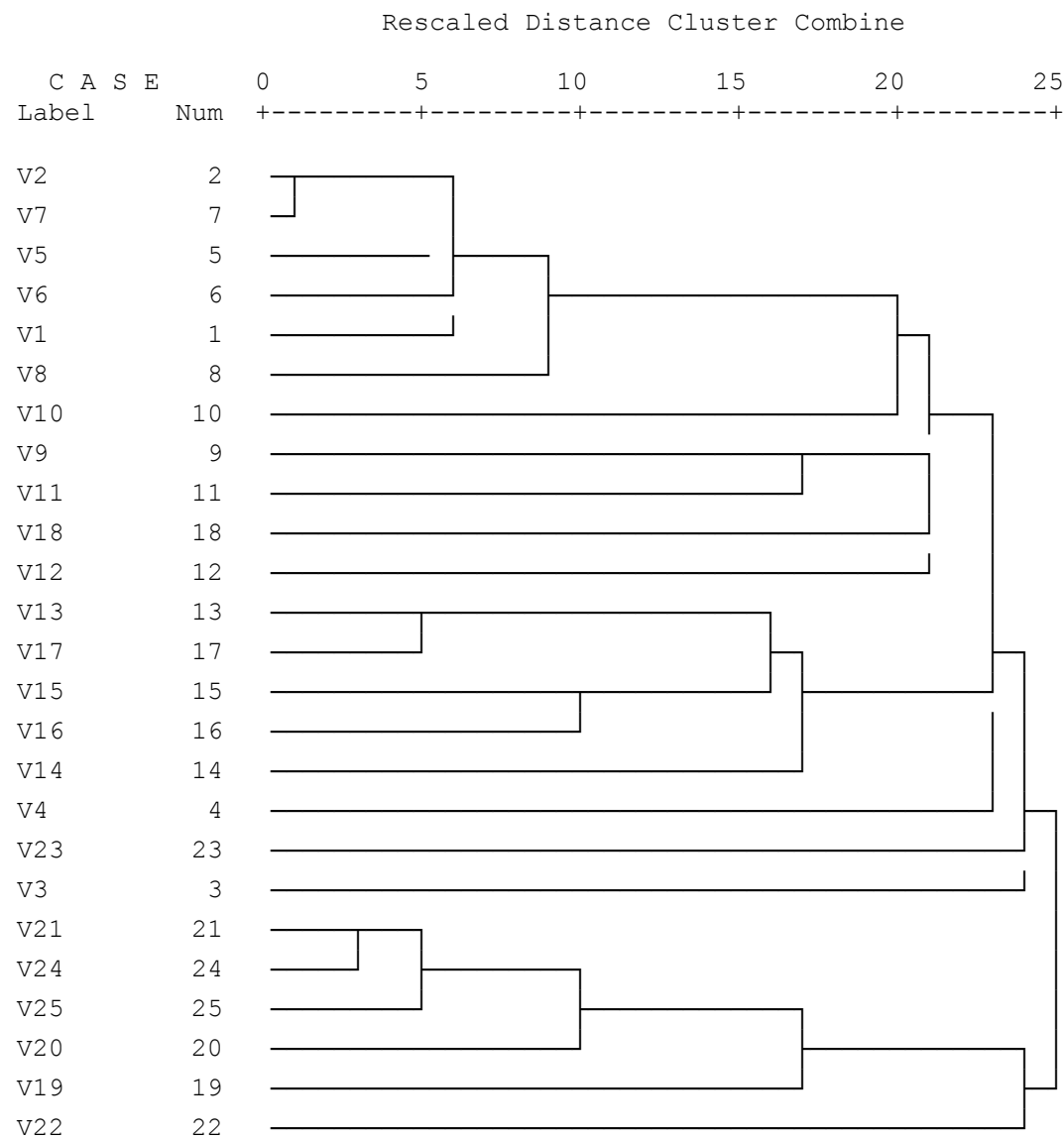
Vertical Icicle

Number of clusters	Case																																																		
	V22		V25		V24		V21		V20		V19		V3		V23		V4		V14		V16		V15		V17		V13		V12		V18		V11		V9		V10		V8		V6		V5		V7		V2		V1		
1	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
2	x	x	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
3	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
4	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
5	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
6	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
7	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
8	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
9	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
10	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
11	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
12	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
13	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
14	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
15	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
16	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
17	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
18	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
19	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
20	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
21	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
22	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
23	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x
24	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x		x

Dendrogram

***** H I E R A R C H I C A L C L U S T E R A N A L Y S I S *****

Dendrogram using Single Linkage



Complete Linkage

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
1	2	7	75.000	0	0	5
2	21	24	73.000	0	0	10
3	13	17	72.000	0	0	17
4	5	6	71.000	0	0	9
5	1	2	71.000	0	1	9
6	15	16	68.000	0	0	11
7	19	20	63.000	0	0	14
8	9	11	63.000	0	0	15
9	1	5	63.000	5	4	18
10	21	25	62.000	2	0	14
11	14	15	62.000	0	6	17
12	8	10	61.000	0	0	18
13	18	23	58.000	0	0	19
14	19	21	58.000	7	10	19
15	3	9	56.000	0	8	21
16	12	22	55.000	0	0	22
17	13	14	54.000	3	11	20
18	1	8	49.000	9	12	21
19	18	19	42.000	13	14	20
20	13	18	38.000	17	19	22
21	1	3	36.000	18	15	23
22	12	13	33.000	16	20	24
23	1	4	33.000	21	0	24
24	1	12	14.000	23	22	0

Vertical Icicle

Number of clusters	Case																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	v25	v24		v21		v20		v19		v23		v18		v16		v15		v14			v17		v13		v22		v12		v4			v11		v9		v3		v10		v8		v6		v5		v7		v2		v1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Dendrogram

* * * * * H I E R A R C H I C A L C L U S T E R A N A L Y S I S * * *

Dendrogram using Complete Linkage

