DISTINCTIVE FEATURES Part 2.

Redundant and contrastive features:

SPANISH VOWELS:

	i	e	a	O	u
[high]	+	-	-	-	+
[low]	-	-	+	-	-
[back]	-	-	+	+	+
[round]	_	-	_	+	+

Redundant Values:

[-low]

f.
$$\begin{pmatrix} -high \\ -back \\ \downarrow \\ [-low] \end{pmatrix}$$

g.
$$\left(\begin{array}{c} + \text{ back} \\ + \text{ round} \\ \bot \end{array}\right)$$
 either $[+ \text{ back}]$ or $[+ \text{ round}]$

[- low]

Redundant values: *Predictable* on the basis of values for other features.

Redundant features may be important when we need to make reference to a natural class comprising several segments.

e.g. If we want to refer to a class containing all vowels except /a/

i, e, o, u [- low]

or: If we want to refer to a class containing

i, e, a [- round]

But: If we want to refer to one particular segment, the non-redundant values have to be used.

Language-specific and universal redundancies:

Language-specific redundancies exist because all combinations of features are not always utilized.

e.g., Hungarian voiceless stops:

The features [anterior] and [coronal] are maximally utilized.

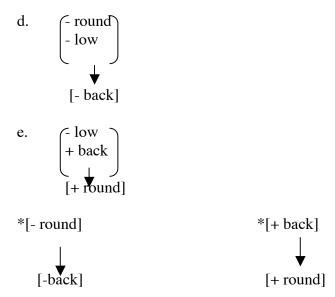
BUT: English voiceless stops:

Since velars are the only stops in English which are [- anterior], it follows that they the feature [coronal] is not relevant; similarly, because alveolars are the only stops that are specified [coronal], a [coronal] stop must also be [+ anterior].

Universal redundancies express co-occurrence restrictions on combinations of features.

SPANISH VOWELS (Version #2):

a.
$$[+ high]$$
 b. $[+ low]$ $[- low]$ $[- high]$



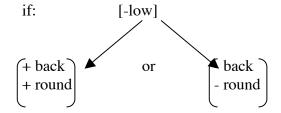
QUESTION: Should we predict the *frontness/backness* on the basis of *roundness/unroundness*

or,

Should we predict the *roundness/unroundness* on the basis of *frontness/backness*?

Which feature is more basic?

Assumption: neither feature determines the other; rather the two features *agree* with one another; this means that we cannot state that one of them is the *distinctive feature* (= the basic one) and the other is the *redundant feature*.



TURKISH: Study Tables (10) and (11) from the book.

Underspecification Theory:

- Should redundant features to be included in the underlying representations?
- Do the absence of redundant features affect the formulation of

phonological generalizations?

Latin example: Study (12) and (13)

Contrastive underspecification: features are specified only in segments that contrast for

the feature concerned.