

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Linguistics 5
Midterm Review 1
Phonetics, Phonology, Morphology

Roslyn C. Burns

University of California Berkeley

Fall Semester 2012

Format of the Midterm

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Short Answer and Data Analysis

Morphology Terms

Linguistics 5
Midterm
Review1

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Format

Morphology
Concepts
Analysis

Phonetics
Concepts
Analysis

Phonology
Concepts
Analysis

Morphology is the study of forms

Basic Morphology Terms

- **Morpheme:**
- **Word:**
- **Lexeme:**

Morphology Terms

Linguistics 5
Midterm
Review1

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Format

Morphology
Concepts
Analysis

Phonetics
Concepts
Analysis

Phonology
Concepts
Analysis

Morphology is the study of forms

Basic Morphology Terms

- **Morpheme:** A minimal meaning bearing unit
- **Word:**
- **Lexeme:**

Morphology Terms

Linguistics 5
Midterm
Review1

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Format

Morphology
Concepts
Analysis

Phonetics
Concepts
Analysis

Phonology
Concepts
Analysis

Morphology is the study of forms

Basic Morphology Terms

- **Morpheme:** A minimal meaning bearing unit
- **Word:** A morpheme that can stand alone or morphemes that are together as a unit
- **Lexeme:**

Morphology Terms

Linguistics 5
Midterm
Review1

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Format

Morphology
Concepts
Analysis

Phonetics
Concepts
Analysis

Phonology
Concepts
Analysis

Morphology is the study of forms

Basic Morphology Terms

- **Morpheme:** A minimal meaning bearing unit
- **Word:** A morpheme that can stand alone or morphemes that are together as a unit
- **Lexeme:** An abstract entry in the mental lexicon

Morphology Conceptual Questions

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

	Root	Affix
Lexical	cat	un-
Grammatical	the	-ed

- Canonically, roots are lexical
- Canonically, affixes are functional

Morphology Conceptual Questions

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

	Root	Affix
Lexical	cat	un-
Grammatical	the	-ed

- Canonically, roots are lexical
- Canonically, affixes are functional

Do the terms “free” and “bound” morpheme correspond to any of these terms?

Morphology Analysis

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Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Morphological Hierarchy

Word trees are hierarchical representations of affix ordering that tell us which affixes attach first.

- 1 Split up the word into morphemes
- 2 Identify the word classes associated with the morphemes
- 3 Link the tree
- 4 Provide examples

Structure This!

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

ANTIDISESTABLISHMENT

Structure This!

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Midterm
Review1

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Format

Morphology

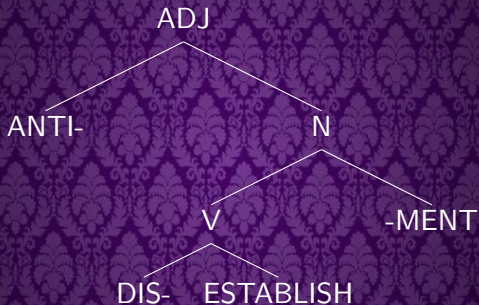
Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis



The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- What are the major features of vowels?

The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- Voicing: Left (voiceless) Right (unvoiced)
- What are the major features of vowels?

The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- Voicing: Left (voiceless) Right (unvoiced)
- Place: Front to Back

- What are the major features of vowels?

The International Phonetic Alphabet

Linguistics 5 Midterm Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- Voicing: Left (voiceless) Right (unvoiced)
- Place: Front to Back
- Manner: Top to Bottom
- What are the major features of vowels?

The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- What are the major features of vowels?
- Height: Top to Bottom

The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- What are the major features of vowels?
- Height: Top to Bottom
- Frontness: Front to back

The International Phonetic Alphabet

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

- What are the major features of consonants?
- What are the major features of vowels?
- Height: Top to Bottom
- Frontness: Front to back
- Rounding: Left (unrounded) Right (rounded)

Natural Classes

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Natural Classes

This a featural relationship that one phone has to others. Even if the phones have the same feature, depending on the other phones that are around, the relevant natural class might be different

Natural Classes

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Natural Classes

This is a featural relationship that one phone has to others. Even if the phones have the same feature, depending on the other phones that are around, the relevant natural class might be different

[x], [f], [t], [y]

Natural Classes

Linguistics 5 Midterm Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Natural Classes

This a featural relationship that one phone has to others. Even if the phones have the same feature, depending on the other phones that are around, the relevant natural class might be different

[x], [f], [t], [y]
fricative

Natural Classes

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Natural Classes

This a featural relationship that one phone has to others. Even if the phones have the same feature, depending on the other phones that are around, the relevant natural class might be different

[x], [f], [t], [y]
fricative

[s], [r], [r], [d]

Natural Classes

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Natural Classes

This a featural relationship that one phone has to others. Even if the phones have the same feature, depending on the other phones that are around, the relevant natural class might be different

[x], [f], [t], [y]
fricative

[s], [r], [r], [d]
voiced

Phonetic Analysis

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

igoutist. ei pɪʃŋ ʌv luː teɪst moɪ ɪntʃæstɪd ɪn hɪmsɛlf ðɪn ɪn mi

Phonetic Analysis

Linguistics 5 Midterm Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

igoutist. ei pɪʃŋ ʌv luː teɪst moʊ ɪntʃræstɪd ɪn hɪmself ðɪn ɪn mi

EGOTIST: A person of low taste, more interested in himself than in me

Phonology vs Phonetics

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Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between **phonetics** and **phonology**?

Phonetics:

Phonology:

Phonology vs Phonetics

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Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between **phonetics** and **phonology**?

Phonetics: the study of physical sounds.

Phonology:

Phonology vs Phonetics

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Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between **phonetics** and **phonology**?

Phonetics: the study of physical sounds.

Phonology: the study of the mental organization of physical sounds particular to a given language.

Phonology vs Phonetics

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Reality of Phonology

It is true that two different languages might treat the same physical sound in different ways.

IPA	English
[tə]	'more'
[t ^h ə]	'location'
[t̚ə]	'floating'

Phonology vs Phonetics

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Reality of Phonology

It is true that two different languages might treat the same physical sound in different ways.

IPA	English
[ta]	'more'
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[t̚a]	'floating'

Conceptual Understanding

- What does this data set show an example of?

Phonology vs Phonetics

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Reality of Phonology

It is true that two different languages might treat the same physical sound in different ways.

IPA	English
[tʰa]	'more'
[tʰa]	'location'
[t̚a]	'floating'

Conceptual Understanding

- What does this data set show an example of? **Minimal Pairs**

Phonology vs Phonetics

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Reality of Phonology

It is true that two different languages might treat the same physical sound in different ways.

IPA	English	Phoneme
[tə]	'more'	/t/
[tʰə]	'location'	/tʰ/
[t̚ə]	'floating'	/t̚/

Conceptual Understanding

- What does this data set show an example of? **Minimal Pairs**

Phonology vs Phonetics

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Reality of Phonology

It is true that two different languages might treat the same physical sound in different ways.

IPA	English	Phoneme
[tə]	'more'	/t/
[tʰə]	'location'	/tʰ/
[t̚ə]	'floating'	/t̚/

Conceptual Understanding

- What does this data set show an example of? **Minimal Pairs**
- Why do many English speakers think these sounds are all /t/?

Conceptual Questions

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between

Contrastive Distribution

Complementary Distribution

Conceptual Questions

Linguistics 5 Midterm Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between

Contrastive Distribution Phones appear in the same environment. Evidence for the phones belonging to contrasting phonemes.

Complementary Distribution

Conceptual Questions

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between

Contrastive Distribution Phones appear in the same environment. Evidence for the phones belonging to contrasting phonemes.

Complementary Distribution Phones never appear in the same environment. Evidence for the phones belonging to the same phoneme.

Conceptual Questions

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between

Contrastive Distribution Phones appear in the same environment. Evidence for the phones belonging to contrasting phonemes.

Complementary Distribution Phones never appear in the same environment. Evidence for the phones belonging to the same phoneme.

Minimal pairs are the strongest evidence of contrastive distribution, but are not the only evidence.

Conceptual Questions

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

What is the difference between

Contrastive Distribution Phones appear in the same environment. Evidence for the phones belonging to contrasting phonemes.

Complementary Distribution Phones never appear in the same environment. Evidence for the phones belonging to the same phoneme.

Complementary distribution is not immediate confirmation of allophony.

Castillian Spanish Data Set

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Look at [r] and [r]

Spanish	IPA	English
rojo	[roxo]	'red'
río	[rio]	'river'
rama	[rama]	'branch'
caro	[karo]	'expensive'
pero	[pero]	'but'
enrojecer	[enroxether]	'to redden'
amar	[amar]	'to love'
subir	[subir]	'to climb'
hogar	[ogar]	'hearth/home'
cuadro	[kwadro]	'frame'
kruz	[kruθ]	'cross'

Castillian Spanish Data Set

Linguistics 5 Midterm Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

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Castillian Spanish Data Set

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subir	[subir]	'to climb'
hogar	[ogar]	'hearth/home'
cuadro	[kwadro]	'frame'
kruz	[kruθ]	'cross'

Writing Phonological Rules

Linguistics 5
Midterm
Review1

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Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Prose: Phonological Input Goes To Phonetic Realization In
The Environment Of

Writing Phonological Rules

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Prose: Phonological Input Goes To Phonetic Realization In
The Environment Of

Formula: /X/ → [Y] /

Writing Phonological Rules

Linguistics 5
Midterm
Review1

Roslyn Burns

Format

Morphology

Concepts
Analysis

Phonetics

Concepts
Analysis

Phonology

Concepts
Analysis

Prose: Phonological Input Goes To Phonetic Realization In
The Environment Of

Formula: $/X/ \rightarrow [Y] /$

Castillian: $/r/ \rightarrow [r] / \# _ _$