

Portmanteau Agreement

Two (Agreement) heads (morphological slots)

are expressed

by the same affix (vocabulary item)

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The Typology of Portmanteau Agreement

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Portmanteau Agreement in Guaraní (Gregores & Suárez 1967)

Intr. Nom.

| | sg | pl |
|----------|-----|-----|
| 1 | a- | ro- |
| 2 | re- | pe- |
| 3 | o- | |

Intr. Abs.

| | sg | pl |
|----------|-----|-------|
| 1 | je- | ore- |
| 2 | ne- | pene- |
| 3 | i- | |

**Transitive
Abs.**

| | 1sg | 1pl | 2sg | 2pl | 3 |
|-------------|------------|-----|------|-----|-------|
| Nom. | 1sg | | ro- | po- | a- |
| | 1pl | | | | ro- |
| | 2sg | | | | re- |
| | 2pl | je- | ore- | | pe- |
| | 3 | | | ne- | pene- |

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Three Types of Portmanteaus

Simplex:

Apparent portmanteau exponent corresponds to a single syntactic head, the other one is \emptyset

Composite:

Apparent portmanteau consists of two exponents each corresponding to a single syntactic head

Simplex + Context:

Apparent Portmanteau exponent corresponds to a single syntactic head but shows allomorphic sensitivity which may be triggered by the other head

Composite + Context:

Apparent portmanteau consists of two exponents and shows allomorphic sensitivity

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Theoretical Claim

There are no person portmanteaus in the technical sense

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Roadmap

- 1 The Framework: Distributed Morphology
- 2 Simplex and Composite Portmanteaus (Hungarian)
- 3 Contexts & Ambiguous Exponence (Amerindian)

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Distributed Morphology (Halle & Marantz, 1993)

- Syntax manipulates abstract heads without phonological content
- Morphology interprets the output of Syntax
- Many types of morphological operations
 - ▶ **Impoverishment:** deletes morphosyntactic features
 - ▶ **Fission:** dissect one head into different separate heads
 - ▶ **Fusion:** fuses different lexical items into one
 - ▶ **Vocabulary Insertion:** inserts VIs into lexical items, restricted by Elsewhere Condition and Feature Hierarchies

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Two Types of Minimal Elements

$$\begin{array}{l}
 \text{Lexical Items:} \\
 \text{Vocabulary Items:}
 \end{array}
 \begin{array}{l}
 \left[\begin{array}{l} +1 \\ -pl \\ +Nom \end{array} \right] \\
 \left[\begin{array}{l} +1 \\ -pl \\ +Nom \end{array} \right] \leftrightarrow /un\ddot{e}/
 \end{array}$$

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Motivation for Two Types of Minimal Elements

- It is a pervasive property of natural language that syntactic differences are neutralized in morphological exponence (Syncretism)
- This is captured in DM by inserting underspecified VIs into fully specified syntactic nodes

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Underspecification: Gender Agreement in Italian

lui e pazz-**o**
he is nuts-masc



Syntax: Copy gender features
from subject to adjective

lei e pazz-**a**
she is nuts-fem

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Vocabulary Insertion

$$\begin{bmatrix} +\text{Det} \\ +3 \\ +\text{masc} \end{bmatrix} \quad \text{e pazz} \quad \begin{bmatrix} +\text{Agr} \\ +\text{masc} \end{bmatrix}$$

$$\begin{bmatrix} +\text{Det} \\ +3 \\ +\text{masc} \end{bmatrix} \quad \begin{bmatrix} +\text{Agr} \\ +\text{masc} \end{bmatrix}$$

$$\updownarrow$$

$$\updownarrow$$

/lui/

/-o/

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Gender Agreement in 2nd Person

tu sei pazz-**o**
you (masc.) are nuts-masc



tu sei pazz-**a**
you (fem.) are nuts-fem

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Underspecified Vocabulary Insertion

$$\begin{bmatrix} +\text{Det} \\ +2 \\ +\text{masc} \end{bmatrix} \text{ sei pazz } \begin{bmatrix} +\text{Agr} \\ +\text{masc} \end{bmatrix}$$

$$\begin{bmatrix} +\text{Det} \\ +2 \end{bmatrix} \qquad \begin{bmatrix} +\text{Agr} \\ +\text{masc} \end{bmatrix}$$

$$\updownarrow \qquad \qquad \qquad \updownarrow$$

$$/tu/ \qquad \qquad \qquad /-o/$$

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Minimalist Distributed Morphology (Trommer 2003)

Only 1 Morphological Operation: Vocabulary Insertion

Vocabulary insertion: If M is a VI with syntactic features α and phonological features β , and S is a head with features γ , where α is a subset of γ , then delete the features of α in γ and add β to the phonological representation of S

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Fission & Impoverishment in Minimalist DM

Fission is Multiple Insertion

- Multiple Insertion obviates fission
- Fission is only restricted by obligatory feature consumption
- Standard Case: Feature deletion blocks fission

Impoverishment is Zero Insertion:

- All vocabulary insertion consumes features
- Deletion bleeds further insertion
- Impoverishment = zero vocabulary insertion

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Portmanteau Agreement in Hungarian (Trommer, 2003)

szeret-ek 'I love'
love-1sg

szeret-ek egy hercegnét 'I love a princess'
love-1sg a princess:Acc

szeret-em a hercegnét 'I love the princess'
love-1sg the princess:Acc

szeret-lek 'I love you'
love-1sg you:Acc

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Portmanteau Agreement in Hungarian

| Subject | Object | |
|---------|---------------------------------|-------------------------------|
| | [-def] | [+def] |
| 1sg | szeret- ek egy hercegnét | szeret- em a hercegnét |
| 2sg | szeret- sz egy hercegnét | szeret- ed a hercegnét |
| 3sg | szeret- ∅ egy hercegnét | szeret- i a hercegnét |

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Portmanteau Analysis of Hungarian

-ek ↔ [+Nom +1 -pl]

-em ↔ [+Nom +1 -pl] [+Acc +def]

-lek ↔ [+Nom +1 -pl] [+Acc +2]

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Main Problem for a Portmanteau Analysis

-em occurs in intransitive forms:

- Past tense Forms
- Intransitive I_k-verbs
- Possessive Forms and Inflected Postpositions

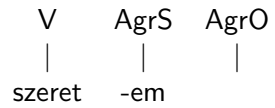
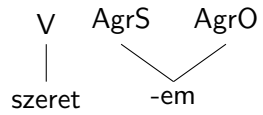
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Distribution of -em

| | intransitive ind. object | intr. ik verb | intr./ind. past | def. object | possessors postpositions |
|-----|-----------------------------|------------------|--------------------|-------------|-----------------------------|
| 1sg | -ek | -em | -em | -em | -em |
| 2sg | -sz/-el | -el | -eel | -ed | -ed |
| 3sg | -∅ | -ik | -∅ | -i | -e |
| 1pl | -ünk | -ünk | -ünk | -jük | -ün-k |
| 2pl | -tek | -tek | -etek | -itek | -te-k |
| 3pl | -nek | -nek | -ek | -ik | -(j)ü-k |

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Alternative Analysis: -em as a Simplex Portmanteau



(see Trommer 2003 for details)

Alternative Analysis: -lek/-etek as Composite Portmanteaus

| | | |
|--------------------------------|------------------------------------|---|
| Subject | szeret-nee- l V-cond-2sg | kert- e N-3sg |
| Subject | szeret- ek V-1sg | eerte-tte- tek V-Past-2pl |
| Object + Subject | szeret- l-ek V-2sg-1sg | eerte-tte- e-tek V-Past-3sg-2pl |

Alternative Analysis: More Composite Portmanteaus

| | intr. pres. | intr. pres. ik | intr. past | def. obj. past | def. obj. pres. |
|-----|-------------|----------------|------------|----------------|-----------------|
| 1sg | -ek | -em | -em | -em | -em |
| 2sg | -sz/-el | -el | -e-el | -ed | -ed |
| 3sg | -Ø | -ik | Ø | -e-Ø | -i-Ø |
| 1pl | -ün-k | -ün-k | -ün-k | -(j)ü-k | -(j)ü-k |
| 2pl | -te-k | -te-k | -e-te-k | -e-e-te-k | -i-te-k |
| 3pl | -ne-k | -ne-k | -e-k | -e-e-k | -i-k |

Surinam Carib Verb Agreement (Gildea 1998)

| | | Acusative | | | | |
|------------|----|-----------|-----|----|-------|------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | Ø | k- | Ø | s- | Ø- |
| | 2 | k- | Ø | Ø | m- | |
| | 12 | Ø | Ø | Ø | k-ij' | k-it |
| | 3 | Ø | Ø | Ø | n- | |
| | - | j- | aj- | k- | | |

Hierarchical Agreement in Surinam Carib

1st person/2nd person > 3rd person

Only the agreement head

which is higher on the person hierarchy

is spelled out

| | | Absolutive | | | | |
|------------|----|------------|-----|----|---------|---|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | k- | | s-/Ø- | |
| | 2 | k- | | | m- | |
| | 12 | | | | kij/kit | |
| | 3 | j- | aj- | k- | n- | |
| | - | | | | | |

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Hierarchical Agreement in Surinam Carib

Ø ↔ [+3] / [+1]

Ø ↔ [+3] / [+2]

| | | Absolutive | | | | |
|------------|----|------------|-----|----|---------|---|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | k- | | s-/Ø- | |
| | 2 | k- | | | m- | |
| | 12 | | | | kij/kit | |
| | 3 | j- | aj- | k- | n- | |
| | - | | | | | |

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Portmanteau Analysis of Surinam Carib

s-/Ø- ↔ [+1 -2 +Nom] j- ↔ [+1 -2 +Abs]
 m- ↔ [-1 +2 +pl +Nom] aj- ↔ [-1 +2 +Abs]
 kij-/kit- ↔ [+1 +2 +pl+Nom] k- ↔ [+1 +2 +Abs]

k- ↔ [+1][+2]

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Problems with the Portmanteau Analysis (I)

doesn't capture the fact that the restriction to agreement with 1 argument extends to all transitive forms:

| | | Absolutive | | | | |
|------------|----|------------|-----|----|---------|---|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | k- | | s-/Ø- | |
| | 2 | k- | | | m- | |
| | 12 | | | | kij/kit | |
| | 3 | j- | aj- | k- | n- | |
| | - | | | | | |

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Problems with the Portmanteau Analysis (II)

doesn't capture that *k-* appears in all contexts involving the features [+1] and [+2]:

| | | Absolutive | | | | |
|------------|----|------------|------------|-----------|---|----------------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | <i>k-</i> | | | <i>s-/∅-</i> |
| | 2 | <i>k-</i> | | | | <i>m-</i> |
| | 12 | | | | | <i>kij/kit</i> |
| | 3 | | | <i>k-</i> | | <i>n-</i> |
| | - | <i>j-</i> | <i>aj-</i> | <i>k-</i> | | |

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Alternative Analysis of Surinam Carib

| | |
|-----------|-----------|
| <i>j-</i> | <i>∅-</i> |
|-----------|-----------|



| | |
|-----------|-----------|
| <i>k-</i> | <i>∅-</i> |
|-----------|-----------|

- Head¹ (1st person) has an overt allomorph contextually restricted to Head²
- Head² is \emptyset anyway

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Hierarchical Agreement in Surinam Carib (Revised)

1st person \succ 2nd person \succ 3rd person

Only the agreement head

which is higher (or equal) on the person hierarchy is spelled out

| | | Absolutive | | | | |
|------------|----|------------|------------|-----------|---|----------------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | <i>k-</i> | | | <i>s-/∅-</i> |
| | 2 | <i>k-</i> | | | | <i>m-</i> |
| | 12 | | | | | <i>kij/kit</i> |
| | 3 | | | <i>k-</i> | | <i>n-</i> |
| | - | <i>j-</i> | <i>aj-</i> | <i>k-</i> | | |

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Hierarchical Agreement in Surinam Carib (Revised)

$\emptyset \leftrightarrow [+3] / [+1]$

$\emptyset \leftrightarrow [+3] / [+2]$

$\emptyset \leftrightarrow [+2] / [+1]$

$\emptyset \leftrightarrow [+3] / [+3]$

| | | Absolutive | | | | |
|------------|----|------------|------------|-----------|---|----------------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | <i>k-</i> | | | <i>s-/∅-</i> |
| | 2 | <i>k-</i> | | | | <i>m-</i> |
| | 12 | | | | | <i>kij/kit</i> |
| | 3 | | | <i>k-</i> | | <i>n-</i> |
| | - | <i>j-</i> | <i>aj-</i> | <i>k-</i> | | |

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Ambiguous Exponence (Trommer, 2006)

An affix is an ambiguous exponent

if it acts as a portmanteau marker in some contexts

and as a simple marker in other contexts

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k- as an Ambiguous Exponent

$$k- \leftrightarrow [+1] [+2]$$

$$k- \leftrightarrow [+1 +2]$$

| | | Absolute | | | | |
|------------|----|----------|-----|----|---|---------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | k- | | | s-/∅- |
| | 2 | k- | | | | m- |
| | 12 | | | | | kij/kit |
| | 3 | j- | aj- | k- | | n- |
| | - | | | | | |

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Notation for VI Contexts (Trommer, 2006)

$$P \leftrightarrow F_1 \dots F_m / [C_1 \dots C_n] \quad \begin{array}{l} F_1 \dots F_m \text{ in the context of } C_1 \dots C_n \\ \text{where } F_1 \dots F_m \text{ is in Head } H_1, \\ C_1 \dots C_n \text{ are in head } H_2 \\ \text{and } H_1 \neq H_2 \end{array}$$

$$P \leftrightarrow F_1 \dots F_m / C_1 \dots C_n \quad \begin{array}{l} F_1 \dots F_m \text{ in the context of } C_1 \dots C_n \\ \text{where } F_1 \dots F_m \text{ is in Head } H_1, \\ C_1 \dots C_n \text{ are in head } H_2 \\ \text{and } H_1 = H_2 \end{array}$$

$$P \leftrightarrow F_1 \dots F_m / \{C_1 \dots C_n\} \quad \begin{array}{l} F_1 \dots F_m \text{ in the context of } C_1 \dots C_n \\ \text{where } F_1 \dots F_m \text{ is in Head } H_1, \\ \text{and } C_1 \dots C_n \text{ are in head } H_2 \end{array}$$

Generally: $Ref(F_1 \dots F_m) \not\cap Ref(C_1, \dots, C_n)$

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k- as an Ambiguous Exponent

$$k- \leftrightarrow [+1] / \{+2\}$$

| | | Absolute | | | | |
|------------|----|----------|-----|----|---|---------|
| | | 1 | 2 | 12 | 3 | - |
| Nominative | 1 | | k- | | | s-/∅- |
| | 2 | k- | | | | m- |
| | 12 | | | | | kij/kit |
| | 3 | j- | aj- | k- | | n- |
| | - | | | | | |

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Verb Agreement in Guaraní (Gregores & Suárez 1967)

Intr. **Nom.**

| | sg | pl |
|---|-----|-----|
| 1 | a- | ro- |
| 2 | re- | pe- |
| 3 | o- | |

Intr. **Abs.**

| | sg | pl |
|---|-----|-------|
| 1 | je- | ore- |
| 2 | ne- | pene- |
| 3 | i- | |

Transitive
Abs.

| | 1sg | 1pl | 2sg | 2pl | 3 |
|------|-----|-----|------|-----|-------|
| Nom. | 1sg | | ro- | po- | a- |
| | 1pl | | | | ro- |
| | 2sg | | | | re- |
| | 2pl | je- | ore- | | pe- |
| | 3 | | | ne- | pene- |

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Portmanteau Analysis of Guaraní

| | | | | | |
|-----|---|---------------|-------|---|---------------|
| ro- | ↔ | [+1 +pl +Nom] | ore- | ↔ | [+1 +pl +Abs] |
| pe- | ↔ | [+2 +pl +Nom] | pene- | ↔ | [+2 +pl +Abs] |
| o- | ↔ | [+3 +Nom] | i- | ↔ | [+3 +Abs] |

po- ↔ [+1+Nom][+2 +pl +Abs]

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Hierarchical Agreement in Guaraní

Intr. **Nom.**

| | sg | pl |
|---|-----|-----|
| 1 | a- | ro- |
| 2 | re- | pe- |
| 3 | o- | |

Intr. **Abs.**

| | sg | pl |
|---|-----|-------|
| 1 | je- | ore- |
| 2 | ne- | pene- |
| 3 | i- | |

Transitive
Abs.

| | 1sg | 1pl | 2sg | 2pl | 3 |
|------|-----|-----|------|-----|-------|
| Nom. | 1sg | | ro- | po- | a- |
| | 1pl | | | | ro- |
| | 2sg | | | | re- |
| | 2pl | je- | ore- | | pe- |
| | 3 | | | ne- | pene- |

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Hierarchical Agreement in Guaraní

1st person > 2nd person > 3rd person

Only the agreement head

which is higher on the person hierarchy

is spelled out

Abs.

| | 1sg | 1pl | 2sg | 2pl | 3 |
|------|-----|-----|------|-----|-------|
| Nom. | 1sg | | ro- | po- | a- |
| | 1pl | | | | ro- |
| | 2sg | | | | re- |
| | 2pl | je- | ore- | | pe- |
| | 3 | | | ne- | pene- |

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Hierarchical Agreement in Guaraní

 $\emptyset \leftrightarrow [+2] / [+1]$
 $\emptyset \leftrightarrow [+3] / [+1]$
 $\emptyset \leftrightarrow [+3] / [+2]$

| | | Abs. | | | | |
|------|-----|------|------|-----|-------|-----|
| | | 1sg | 1pl | 2sg | 2pl | 3 |
| Nom. | 1sg | | | ro- | po- | a- |
| | 1pl | | | | | ro- |
| | 2sg | je- | ore- | | | re- |
| | 2pl | | | | | pe- |
| | 3 | | | ne- | pene- | o- |

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Hierarchical Agreement in Guaraní

Since [+2] heads are deleted in the context of [+1] heads

po- should be a [+1] Nom marker, not a portmanteau

(deletion of the [+2] Acc head is predicted anyway)

| | | Abs. | | | | |
|------|-----|------|------|-----|-------|-----|
| | | 1sg | 1pl | 2sg | 2pl | 3 |
| Nom. | 1sg | | | ro- | po- | a- |
| | 1pl | | | | | ro- |
| | 2sg | je- | ore- | | | re- |
| | 2pl | | | | | pe- |
| | 3 | | | ne- | pene- | o- |

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Alternative Analysis of Guaraní

| | |
|----|----|
| a- | ∅- |
|----|----|



| | |
|-----|----|
| po- | ∅- |
|-----|----|

- Head¹ has an overt allomorph contextually restricted to Head²
- Head² is ∅ anyway

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Guaraní ro- as an Ambiguous Exponent

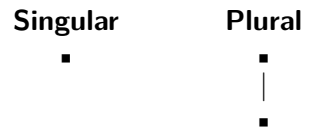
 $ro- \leftrightarrow [+1 +pl +Nom]$
 $ro- \leftrightarrow [+1 +Nom][+2-pl+Abs]$

| | | Abs. | | | | |
|------|-----|------|------|-----|-------|-----|
| | | 1sg | 1pl | 2sg | 2pl | 3 |
| Nom. | 1sg | | | ro- | po- | a- |
| | 1pl | | | | | ro- |
| | 2sg | je- | ore- | | | re- |
| | 2pl | | | | | pe- |
| | 3 | | | ne- | pene- | o- |

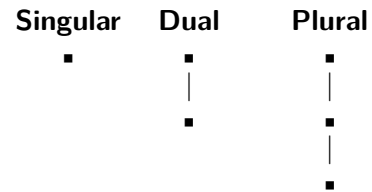
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The Iconic Representation of Number (Trommer, 2006)

a. Two-way number system



b. Three-way number system



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Constructed Number in Guaraní

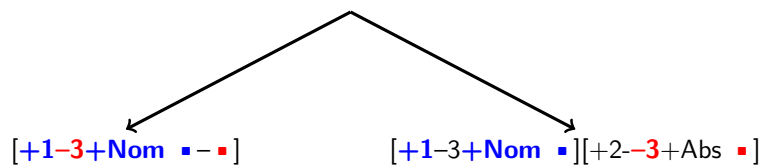
ro- ↔ [+1 +Nom ▪] / { ▪ -3}

| | | Abs. | | | | |
|------|-----|------|------|-----|-------|-----|
| | | 1sg | 1pl | 2sg | 2pl | 3 |
| Nom. | 1sg | | | ro- | po- | a- |
| | 1pl | | | | | ro- |
| | 2sg | je- | ore- | | | re- |
| | 2pl | | | | | pe- |
| | 3 | | | ne- | pene- | o- |

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Constructed Number in Guaraní

ro- ↔ [+1 +Nom ▪] / { ▪ -3}



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Alternative Analysis of Guaraní

ro- ↔ [+1 ▪ - ▪ +Nom] ore- ↔ [+1 ▪ - ▪ +Abs]
 pe- ↔ [+2 ▪ - ▪ +Nom] pene- ↔ [+2 ▪ - ▪ +Abs]
 o- ↔ [+3 +Nom] i- ↔ [+3 +Abs]

po- ↔ [+1 +Nom ▪] / { ▪ - ▪ -3}

ro- ↔ [+1 +Nom ▪] / { ▪ -3}

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Alternative Analysis of Guaraní

- Apparent Portmanteau realizes only subject agreement
- \emptyset -exponence of object agreement independently predicted by Hierarchical Agreement
- Context restrictions account for ambiguous exponence: Same VI acts as (non-)portmanteau in different contexts

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Mojave (Munro 1976)

$$\begin{aligned} n^j- &\leftrightarrow [-3 +\text{Acc}] / \{+1\} \\ ?- &\leftrightarrow [+1 +\text{Nom}] / \{-2 +\text{Abs}\} \\ m- &\leftrightarrow [-3 +2] / \{-1 +\text{Nom}\} \end{aligned}$$

| | | Object | | | |
|---------|---------|----------|--------|--------------|---|
| | | 1 | 2 | 3 | - |
| Subject | 1 | | n^j- | $?-$ | |
| | 2 (Ind) | n^j-m- | | $m-$ | |
| | 2 (Imp) | n^j-k- | | $k-$ | |
| | 3 | n^j- | $m-$ | $\emptyset-$ | |

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Maricopa (Gordon 1986)

$$\begin{aligned} n^j- &\leftrightarrow [-3 +\text{Acc}] / \{+1\} \\ ?- &\leftrightarrow [+1] / \{-3 +\text{Nom}\} \{-2 +\text{Abs}\} \\ m- &\leftrightarrow [-3 +2] / \{-1 +\text{Nom}\} \end{aligned}$$

| | | Object | | | |
|---------|---------|------------|--------|--------------|---|
| | | 1 | 2 | 3 | - |
| Subject | 1 | | n^j- | $?-$ | |
| | 2 (Ind) | $?-n^j-m-$ | | $m-$ | |
| | 2 (Imp) | $?-n^j-k-$ | | $k-$ | |
| | 3 | n^j- | $m-$ | $\emptyset-$ | |

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Summary

- There are no portmanteau agreement markers which correspond to two syntactic heads
- Apparent portmanteaus can either be subanalysed or occur also as simplex markers
- Ambiguous Exponence is pervasive in portmanteaus and follows from context sensitivity

Empirical Prediction: Strategies for morphological learning/segmentation should avoid portmanteaus

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