## Arabic Morphology

Rudy Khalil

- Derivational Morphology
- Inflectional Morphology
- Morphological Ambiguity

Reference: Semitic Linguistic Phenomena by Nizar Habash

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Templatic Morphology

 Root Pattern ma12uw3 1A2i3 written writer كاتب Word maktuwb kAtib written writer

Lexime Meaning = Root Meaning + Pattern Meaning

**Root Meaning** 

• ب ت ظ KTB = "writing"

```
کتاب
         /kitāb/
                    /katab/
          book
                     write
              مکتوب
/maktūb/
                           /maktūb/
maktaba/
                            written
 library
                letter
                        کاتب
      /maktab/
                       /kātib/
        office
                       writer
```

#### **Root Meaning**

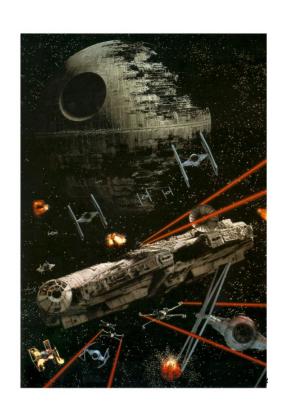
- LHM-1
- Notion of "meat"
  - /laħm/
    - Meat
  - /laħħām/
    - Butcher





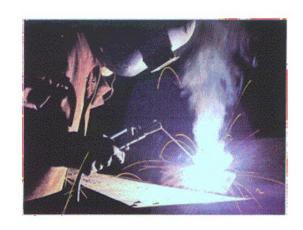
#### **Root Meaning**

- LHM-2
- Notion of "battle"
  - /malħama/
    - Fierce battle
    - Massacre
    - Epic



#### **Root Meaning**

- LHM-3
- Notion of "soldering"
  - /laħam/
    - · Weld, solder, stick, cling
  - /iltaħam/ التحم
    - · Be welded/soldered/fused
  - /multaħim/
    - · Welded, soldered, fused

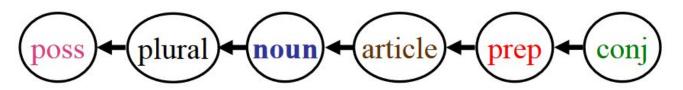


# Derivational Morphology Root Meaning

- → Same Root of different words doesn't mean they have the same meaning
- → You definitely need the *pattern meaning*
- → This is why Arabic text is difficult to segment by a software

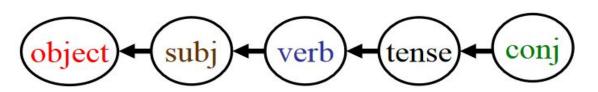
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# Inflectional Morphology Nouns



رکبیوننا /wakabiyūtinā/ و + ك + بیوت + نا wa+ka+biyūt+nā and+like+houses+our And like our houses وللمكتبات /walilmaktabāt/ و +ل+ال+مكتبة+ات wa+li+al+maktaba+āt and+for+the+library+plural And for the libraries

# Inflectional Morphology Verbs



الفقائداها /faqulnāhā/ ف + قال + نا+ ها ف+ قال + نا+ ها fa+qul+na+hā so+said+we+it So we said it.

وسنقولها /wasanaqūluhā/ و + س + ن + قول + ها wa+sa+na+qūl+u+hā and+will+we+say+it And we will say it

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- عقد Necklace
- عقد Decade
- عقد Contract
- عقد Held
- عقد Complicated (verb)
- عقد Knots

What is really going on here?!!!

Reference: Who knows!

The rule of Diacritical marks ("´´'', "):

- o'qd Nicklace عُدُ
- عقد i'qd Decade
- ﷺ a'qd Contract
- a'qada Held
- a'kkada Complicated (verb)
- o'kad Knots عُقْدُ •

In Arabic texts, mostly you won't see diacritics. You need to know them with the help of context.

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لإتقان البرمجة تحتاج إلى عقد من التدريب

To master programming you need a decade of practice

## Thanks