

{Taha}{d=b=} & {wAw} {p+p}

Taha wAw French Letters

{Taha}

Using Geometric Letters

{d=b=} - {=b=b}

{Taham}

Using Mirrored Geometric Letters

{d+b=□} - {□=d+b}

{wAw}

Using Latin Matching Letters

{p+p} - {q+q}

(7, 3, 2) ≡ {c, q, x} ≡ (ح, ع, ء)

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1- Writing Geometric Method {Taha}

Geometric method {Taha} is a method of writing Arabic texts using Arabic Geometric letters. Mirrored letters are used to write English and French texts (**Taham**). Writing Arabic way {wAw} is the same method for writing Arabic, English and French texts using Latin matching letters {**wAw**}.

Geometric consonant letters consist of **13** Arabic un-pointed letters, **15** Arabic pointed letters and **4** additional English letters not available in Arabic. Un-pointed letters are made from simple basic geometric shapes depending on the square shape. Vowels are made from smaller basic shapes.

A Geometric consonant letter represents a unique human sound and can be static and marked by an optional mark of (Sukoon) or dynamic marked by a mandatory movement written above or below the letter or above or below a (Waslah) after the letter and called a vowel in this case.

Geometric_vowels or movements consist of 3 Arabic short movements represented by horizontal shapes, 3 Arabic long movements represented by similar but vertical shapes, 4 additional English movements and 8 additional French movements not available in Arabic.

A mark of (Tanween) can be replaced by a short movement and a static n, while a Geometric stressed letter with (Shaddah) can be replaced by a static letter and an identical but dynamic letter. Silent letters are omitted as solar L or silent h except the silent Hamzatu –lwasl which is replaced by a dash.

The three Geometric letters (Alif, Waw and Yaa) are all consonant letters and could not be vowels any more. Geometric (Alif) and (Hamzah) are the name for the same consonant letter which has a unique sound and has one form for writing. (Hamzah) has no relationship with vowels.

In order to write English and Arabic texts using matching Latin letters, the small and capital letters were redefined and called **Latin wAw** to achieve one to one relationship with Geometric letters.

Small Latin vowels are made equivalent to short Arabic movements and capital Latin vowels are made equivalent to long movements. French texts are written by using 8 additional French vowels.

A (Hidden Sukoon) is assumed after each Geometric consonant letter not followed by a vowel, and a (Hidden Hamzah) is assumed at the beginning of a word starting by a vowel.

Four reference tables of Latin letters matching Geometric letters are shown in the following pages.

Arabic, English and French **wAw** texts are produced directly by entering the English or French matching consonant letters and vowels in the computer using an English Keyboard.

English or French **Taham** texts are produced by entering the Latin wAw matching letters and applying the Arabic Mirrored Geometric or the French Mirrored Geometric font respectively.

The **Taha** texts are produced by entering the Latin wAw matching letters and applying the Arabic Geometric font and inverting the lines of **Taha** text.

2- Latin Matching Letters {lml}

Arabic **Taha** texts are produced by entering the Latin matching letters in the computer using an English Keyboard and by changing the font into Arabic Geometric font and inverting the lines. An Arabic Geometric font with proper direction is required to avoid inverting **Taha** text lines.

English and French **Taham** texts are produced similarly but by using Arabic Mirrored Geometric font and French Mirrored Geometric font respectively.

Arabic specific Geometric consonant letters (ع, ح, هـ) are matched to Latin letters (x, c, q) and the additional English specific consonant letters (g, p, v, ch) are included in Geometric letters.

| Points Place | Pointed Letters | | | | | | | | | Un-Pointed Letters | | | Number |
|--------------|-----------------|----|---|------------|---|---|-----------|----|----|--------------------|---|---|--------|
| | Three Points | | | Two Points | | | One Point | | | | | | |
| Above | B | ث | ث | t | ت | ت | n | ن | ن | x | خ | ا | 1 |
| Below | p | پ | | y | ي | ي | b | ب | ب | | | | |
| Above | | | | | | | C | ث | خ | c | ح | ح | 2 |
| Below | H | هـ | | | | | j | ج | ج | | | | |
| Above | | | | g | غ | | Q | ق | غ | q | ع | ع | 3 |
| | F | ف | ش | | | | | | | s | س | س | 4 |
| | | | | | | | D | د | ض | S | ص | ص | 5 |
| | v | و | | K | ك | ق | f | ف | ف | m | م | م | 6 |
| | | | | R | ر | ة | Z | ز | ظ | T | ط | ط | 7 |
| | | | | | | | z | ز | ز | r | ر | ر | 8 |
| | | | | | | | P | ط | ذ | d | د | د | 9 |
| None | k | ك | ك | l | ل | ل | h | هـ | هـ | w | و | و | 13-10 |

3- English and French matching Letters {wAw}

Arabic, English and French **wAw** texts are produced directly by entering the English or French matching letters in the computer using an English Keyboard.

English Taham texts can be converted into English **wAw** texts by changing the Mirrored Geometric fonts into English font and editing the 7 combined English letters. **French Taham** texts can be converted into French **wAw** texts by changing the Mirrored Geometric fonts into French font and editing 8 combined French vowels and one combined French consonant letter.

| Points Place | Pointed Letters | | | | | | Un-Pointed Letters | Number | | | | | |
|--------------|-----------------|---|---|------------|---|---|--------------------|--------|-----------|---|---|---|-------|
| | Three Points | | | Two Points | | | | | One Point | | | | |
| Above | th | ث | ث | t | ت | ت | n | ن | ن | x | خ | ا | 1 |
| Below | p | پ | | y | ي | ي | b | ب | ب | | | | |
| Above | | | | | | | kh | خ | خ | c | ق | ح | 2 |
| Below | ch | چ | | | | | j | ج | ج | | | | |
| Above | | | | g | غ | | gh | غ | غ | q | ق | ع | 3 |
| | sh/ch | ش | ش | | | | | | | s | س | س | 4 |
| | | | | | | | D | د | ض | S | س | ص | 5 |
| | v | ف | | K | ق | ق | f | ف | ف | m | م | م | 6 |
| | | | | t/h | ه | ة | Dh | ط | ظ | T | ط | ط | 7 |
| | | | | | | | z | ز | ز | r | ر | ر | 8 |
| | | | | | | | dh | ذ | ذ | d | د | د | 9 |
| None | k | ك | ك | l | ل | ل | h | ه | ه | w | و | و | 13-10 |

4- English and French Matching Vowels

i- Arabic Geometric Vowels

- 1- Short Arabic Vowels or movements: Fathah, Dummah, Kasrah
- 2- Long Arabic Vowels or movements: Mad Fath, Mad Dum, Mad Kasr
- 3- Tanween Marks: Fathatan, Dummatan, Kasratan

ii- Arabic & English Geometric Vowels

- 1- Short English Vowels: Fathah, Dummah, Kasrah, **Kashah, Offah**
- 2- Long English Vowels: Mad Fath, Mad Dum, Mad Kasr, **Mad Kash, Mad Off**

| Kasratan | Dummatan | Fathatan | Mad Off | Mad Kash | Mad Kasr | Mad Dum | Mad Fath | Offah | Kashah | Kasrah | Dummah | Fathah |
|----------|----------|----------|-----------|-----------|-----------|----------|-----------|-------|--------|--------|--------|--------|
| كسرتان | ضماتان | فتحتان | مد أوف | مد كسح | مد كسر | مد ضم | مد فتح | أفة | كسحة | كسرة | ضمة | فتحة |
| L | M | N | O | E | I | U | A | o | e | i | u | a |
| ≡ | ≡ | ≡ | ك | ك | ر | د | ف | ا | ا | ا | ا | ا |
| in | on | an | O | E | I | U | A | o | e | i | u | a |

iii- French Specific Geometric Vowels

- 1- Short French Vowels: Fathah, Dummah, Kasrah, Kashah, Offah, **Summah, Lammah**
- 2- Long French Vowels: Mad Fath, Mad Dum, Mad Kasr, Mad Kash, Mad Off, **Mad Sum, Mad Lam**
- 3- Nazal French Vowels: **Naf Fath, Naf Dum, Naf Kasr, Naf Off**

| French Specific Vowels | Naf Fath | Naf Dum | Naf Kasr | Naf Off | Summah | Lammah | Mad Sum | Mad Lam |
|-------------------------|----------|---------|----------|---------|--------|--------|---------|---------|
| | نف فتح | نف ضم | نف كسر | نف أوف | صمة | لمة | مد صم | مد لم |
| Latin Font | L | M | N | G | X | Y | J | R |
| Geometric Font | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ |
| Mirrored Geometric Font | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ | ≡ |
| Latin wAw letters | aa | uu | ii | oo | iu | eu | Iu | Eu |
| French words | an, en | un | vin | nom | du | peu | dur | peur |
| French wAw | aa | uu | vii | noo | diu | peu | dIur | pEur |