

Akatab - Font Features

Akatab is an OpenType-enabled font family that supports the Tifinagh script. It includes a number of optional user-selected features that may be useful or required for particular uses or languages. This document lists all the user-selected features. These features are primarily specified using four-letter tags (e.g. 'cv17'). For more information on how to access OpenType features in specific environments and applications, see [Using Font Features](#).

Akatab also provides for a number of common features such as ligature formation, contextual substitution and diacritic positioning. It also provides right-to-left rendering of text. Most applications will make use of these features when the proper sequence of characters is entered.

This page uses web fonts (WOFF2) to demonstrate font features and should display correctly in all modern browsers. For detailed information, see [Using SIL Fonts on Web Pages](#). For a more concise example of how to use Akatab as a web font, see [Akatab Webfont Example](#).

If this document is not displaying correctly, a PDF version is also provided in the documentation/pdf folder of the release package.

User-selected feature list

Character variants

Alternate YA

Affects: U+2D30

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | • | • | cv01=0 |
| Circle | ◦ | ◦ | cv01=1 |

Alternate YAF

Affects: U+2D3C

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | ⵢ | ⵢ | cv02=0 |
| I-shape | ⵢ | ⵢ | cv02=1 |
| Open top and bottom | ⵢ | ⵢ | cv02=2 |

Alternate YAGHH

Affects: U+2D34

| Feature | Sample | Sample right-to-left | Feature setting |
|--------------|--------|----------------------|-----------------|
| Standard | 𐤃 | 𐤃 | cv03=0 |
| Round bottom | 𐤄 | 𐤄 | cv03=1 |

Alternate YAGN

Affects: U+2D50

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------------|--------|----------------------|-----------------|
| Standard | 𐤀 | 𐤀 | cv04=0 |
| Lowered bottom stroke | 𐤁 | 𐤁 | cv04=1 |

Alternate YU (Tuareg YAW) Tuareg YAGH, YAH and YAQ (short strokes)

Affects: U+2D53 U+2D57 U+2D42 U+2D48

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------|---------|----------------------|-----------------|
| Standard | ⋮ ⋮ ⋮ ⋮ | ⋮ ⋮ ⋮ ⋮ | cv05=0 |
| Short strokes | ⋮ ⋮ ⋮ ⋮ | ⋮ ⋮ ⋮ ⋮ | cv05=1 |

Alternate YAZ

Affects: U+2D63

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | 𐤀 | 𐤀 | cv06=0 |
| Squared | 𐤁 | 𐤁 | cv06=1 |

Alternate AHAGGAR YAZH

Affects: U+2D4B

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | 𐤀 | 𐤀 | cv07=0 |
| Squared | 𐤁 | 𐤁 | cv07=1 |

Alternate YAB

Affects: U+2D31

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------|--------|----------------------|-----------------|
| Standard | Ɑ | Ɑ | cv08=0 |
| Rectangle style | Ɑ | Ɑ | cv08=1 |

Alternate YAG

Affects: U+2D33

| Feature | Sample | Sample right-to-left | Feature setting |
|-------------|--------|----------------------|-----------------|
| Standard | Ɱ | Ɱ | cv09=0 |
| Rounded top | Ɱ | Ɱ | cv09=1 |

Alternate YAJ

Affects: U+2D36

| Feature | Sample | Sample right-to-left | Feature setting |
|------------|--------|----------------------|-----------------|
| Standard | Ɐ | Ɐ | cv10=0 |
| Lower dots | Ɐ | Ɐ | cv10=1 |

Alternate YAH (Tuareg yab)

Affects: U+2D40

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------|--------|----------------------|-----------------|
| Standard | Ɒ | Ɒ | cv11=0 |
| Rectangle style | Ɒ | Ɒ | cv11=1 |

Alternate YASH

Affects: U+2D5B

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | ⱱ | ⱱ | cv12=0 |
| 8 shape | ⱱ | ⱱ | cv12=1 |

Alternate YATT

Affects: U+2D5F

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | Ɛ | Ქ | cv13=0 |
| F shape | F | Ლ | cv13=1 |

Alternate YADH

Affects: U+2D38

| Feature | Sample | Sample right-to-left | Feature setting |
|----------------|--------|----------------------|-----------------|
| Standard | Ƶ | Ƶ | cv15=0 |
| Rounded bottom | ƶ | ƶ | cv15=1 |

Neo-Tifinagh

Affects: 2D30 2D3C 2D4D 2D53 2D5A 2D5B 2D5C

| Feature | Sample | Feature setting |
|--------------|---------------------------------|-----------------|
| Standard | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | cv18=0 |
| Neo-Tifinagh | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | cv18=1 |

Alternate YAL and YAL

Affects: U+2D4D U+2D4F

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|---------------------------------|---------------------------------|-----------------|
| Standard | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | cv19=0 |
| Slanted | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | cv19=1 |

Alternate punctuation

Affects: U+0021 U+002C U+002E

| Feature | Sample | Feature setting |
|----------------|---------------------------------|-----------------|
| Standard Latin | ! , . | cv20=0 |
| Decorative | ⵓ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ ⵙ ⵔ ⵖ ⵗ ⵘ | cv20=1 |

Alternate YO

Affects: U+2D67

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | -- | | cv21=0 |
| Dots | .. | | cv21=1 |

Ligature variants

Alternate YAB YAT

Affects: U+2D31 U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|------------|--------|----------------------|-----------------|
| Standard | ⊖+ | +⊖ | cv31=0 |
| Interior T | ⊕ | ⊕ | cv31=1 |

Alternate YAR YAT

Affects: U+2D54 U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|------------------|--------|----------------------|-----------------|
| Standard | ○+ | +○ | cv32=0 |
| Large interior T | ⊕ | ⊕ | cv32=1 |
| Small interior T | ⊕ | ⊕ | cv32=2 |









Alternate YAS YAT

Affects: U+2D59 U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|-------------------------------|--------|----------------------|-----------------|
| Standard | ⊙+ | +⊙ | cv33=0 |
| Large interior T lower dot | ⊕ | ⊕ | cv33=1 |
| Small interior T | ⊕ | ⊕ | cv33=2 |
| Large interior T upper dot | ⊕ | ⊕ | cv33=3 |

Alternate YAM YAT

Affects: U+2D4E U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|----------------|---|---|-----------------|
| Standard |  |  | cv34=0 |
| Mid exterior T |  |  | cv34=1 |
| Low interior T |  |  | cv34=2 |
| Center T |  |  | cv34=3 |

Alternate YAF YAT

Affects: U+2D3C U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|-------------------------------|--------|----------------------|-----------------|
| Standard | ᳚ | ᳚ | cv35=0 |
| Single bar, middle exterior T | ᳚ | ᳚ | cv02=1 |
| Double bar, middle exterior T | ᳚ | ᳚ | cv35=1 |
| Single bar, middle interior T | ᳚ | ᳚ | cv35=2 |
| Open top & bottom, interior T | ᳚ | ᳚ | cv02=2 |

Alternate YAN TUAREG YAK

Affects: U+2D4F U+2D3E

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | ٲ | ٲ | cv36=0 |
| Double cluster dots | ٲٲ | ٲٲ | cv36=1 |

Alternate YAN YAT

Affects: U+2D4F U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | ⌈ | ⌊ | cv37=0 |
| Side bar | ┌ | └ | cv37=1 |
| Top bar | ┐ | ┘ | cv37=2 |

Alternate YAL YAT

Affects: U+2D4D U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|------------|--------|----------------------|-----------------|
| Standard | + | + | cv38=0 |
| Internal T | | | cv38=1 |
| Middle bar | ‡ | ‡ | cv38=2 |
| X shape | X | X | cv38=3 |

Alternate YU YAT (WT)

Affects: U+2D53 U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|--------------------|--------|----------------------|-----------------|
| Standard | ÷ | ÷ | cv39=0 |
| Left short strokes | ÷ | ÷ | cv05=1 |
| Tall T, left dots | ÷ | ÷ | cv39=1 |
| Tall T, cross dots | ÷ | ÷ | cv39=2 |

Alternate TUAREG YAZH YAT

Affects: U+2D4C U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|----------------|--------|----------------------|-----------------|
| Standard | ‡ | +‡ | cv40=0 |
| Mid exterior T | ‡ | +‡ | cv40=1 |
| Center T | ‡ | ‡ | cv40=2 |

Alternate YAN YAD

Affects: U+2D4F U+2D37

| Feature | Sample | Sample right-to-left | Feature setting |
|------------------|--------|----------------------|-----------------|
| Standard | ↑ | ↑ | cv41=0 |
| Up down pointers | ↕ | ↕ | cv41=1 |

Alternate YAN YAF

Affects: U+2D4F U+2D3C

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | Ƴ | Ƴ | cv42=0 |
| Top and bottom bars | Ⅱ | Ⅱ | cv42=1 |
| No bars | ƴ | ƴ | cv02=2 |

Alternate YAN YAJ

Affects: U+2D4F U+2D36

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | ƶ | ƶ | cv43=0 |
| Top and bottom dots | Ʒ | Ʒ | cv43=1 |

Alternate YAN YAS

Affects: U+2D4F U+2D59

| Feature | Sample | Sample right-to-left | Feature setting |
|--------------|--------|----------------------|-----------------|
| Standard | ⊖ | ⊖ | cv44=0 |
| Interior YAN | Ⓜ | Ⓜ | cv44=1 |

Alternate YAN TUAREG YAZH

Affects: U+2D4F U+2D4C

| Feature | Sample | Sample right-to-left | Feature setting |
|------------------|--------|----------------------|-----------------|
| Standard | ƹ | ƹ | cv45=0 |
| Exterior circles | ⦿ | ⦿ | cv45=1 |

Alternate YAR TUAREG YAK

Affects: U+2D54 U+2D3E

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | ⦿ | ⦿ | cv46=0 |
| Double cluster dots | ⦿ | ⦿ | cv46=1 |

Alternate YASH TUAREG YAK

Affects: U+2D5B U+2D3E

| Feature | Sample | Sample right-to-left | Feature setting |
|------------------------------|--------|----------------------|-----------------|
| Standard | Ქ | Ქ | cv47=0 |
| Double cluster dots | Ქ̣̣ | Ქ̣̣ | cv47=1 |
| 8 shape | Ქ̸ | Ქ̸ | cv12=1 |
| 8 shape, double cluster dots | Ქ̸̣̣ | Ქ̸̣̣ | cv47=2 |

Alternate YASH YAT

Affects: U+2D5B U+2D5C

| Feature | Sample | Sample right-to-left | Feature setting |
|------------|--------|----------------------|-----------------|
| Standard | Ქ̣ | Ქ̣ | cv48=0 |
| Internal T | Ქ̣̣ | Ქ̣̣ | cv48=1 |

Stylistic sets

Alternate YA

Affects: U+2D30

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | • | • | ss01=0 |
| Circle | ◦ | ◦ | ss01=1 |

Alternate YAF

Affects: U+2D3C

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------------|--------|----------------------|-----------------|
| Standard | Ლ | Ლ | ss02=0 |
| I-shape | Ლ̣ | Ლ̣ | ss02=1 |
| Open top and bottom | Ლ̣̣ | Ლ̣̣ | ss14=1 |

Alternate YAGHH

Affects: U+2D34

| Feature | Sample | Sample right-to-left | Feature setting |
|--------------|--------|----------------------|-----------------|
| Standard | ⵧ | ⵧ | ss03=0 |
| Round bottom | ⵧ | ⵧ | ss03=1 |

Alternate YAGN

Affects: U+2D50

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------------|--------|----------------------|-----------------|
| Standard | ⵡ | ⵡ | ss04=0 |
| Lowered bottom stroke | ⵡ | ⵡ | ss04=1 |

Alternate YU (Tuareg YAW) Tuareg YAGH, YAH and YAQ (short strokes)

Affects: U+2D53 U+2D57 U+2D42 U+2D48

| Feature | Sample | Sample right-to-left | Feature setting |
|---------------|---------|----------------------|-----------------|
| Standard | ⵣ ⵣ ⵣ ⵣ | ⵣ ⵣ ⵣ ⵣ | ss05=0 |
| Short strokes | ⵣ ⵣ ⵣ ⵣ | ⵣ ⵣ ⵣ ⵣ | ss05=1 |

Alternate YAZ

Affects: U+2D63

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | ⵣ | ⵣ | ss06=0 |
| Squared | ⵣ | ⵣ | ss06=1 |

Alternate Ahaggar YAZH

Affects: U+2D4B

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | ⵣ | ⵣ | ss07=0 |
| Squared | ⵣ | ⵣ | ss07=1 |

Alternate YAB

Affects: U+2D31

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------|--------|----------------------|-----------------|
| Standard | Ɑ | Ɑ | ss08=0 |
| Rectangle style | Ɑ | Ɑ | ss08=1 |

Alternate YAG

Affects: U+2D33

| Feature | Sample | Sample right-to-left | Feature setting |
|-------------|--------|----------------------|-----------------|
| Standard | Ɱ | Ɱ | ss09=0 |
| Rounded top | Ɱ | Ɱ | ss09=1 |

Alternate YAJ

Affects: U+2D36

| Feature | Sample | Sample right-to-left | Feature setting |
|------------|--------|----------------------|-----------------|
| Standard | Ɐ | Ɐ | ss10=0 |
| Lower dots | Ɐ | Ɐ | ss10=1 |

Alternate YAH (Tuareg yab)

Affects: U+2D40

| Feature | Sample | Sample right-to-left | Feature setting |
|-----------------|--------|----------------------|-----------------|
| Standard | Ɒ | Ɒ | ss11=0 |
| Rectangle style | Ɒ | Ɒ | ss11=1 |

Alternate YASH

Affects: U+2D5B

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | ⱱ | ⱱ | ss12=0 |
| 8 shape | ⱱ | ⱱ | ss12=1 |

Alternate YATT

Affects: U+2D5F

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|--------|----------------------|-----------------|
| Standard | 𐤄 | 𐤄 | ss13=0 |
| F shape | 𐤅 | 𐤅 | ss13=1 |

Alternate YADH

Affects: U+2D38

| Feature | Sample | Sample right-to-left | Feature setting |
|----------------|--------|----------------------|-----------------|
| Standard | V | V | ss15=0 |
| Rounded bottom | U | U | ss15=1 |

Neo-Tifinagh

Affects: 2D30 2D3C 2D4D 2D53 2D5A 2D5B 2D5C

| Feature | Sample | Feature setting |
|--------------|---------------|-----------------|
| Standard | • ∫ ∥ ∶ # € + | ss18=0 |
| Neo-Tifinagh | ⵓ ⵍ ⵎ ⵏ ⵔ ⵙ ⵕ | ss18=1 |

Alternate YAL and YAL

Affects: U+2D4D U+2D4F

| Feature | Sample | Sample right-to-left | Feature setting |
|----------|---|---|-----------------|
| Standard | 𐤁 𐤂 𐤃 𐤄 𐤅 𐤆 𐤇 𐤈 𐤉 𐤊 𐤋 𐤌 𐤍 𐤎 𐤏 𐤐 𐤑 𐤒 𐤓 𐤔 𐤕 𐤖 𐤗 𐤘 𐤙 𐤚 𐤛 𐤜 𐤝 𐤞 𐤟 𐤠 𐤡 𐤢 𐤣 𐤤 𐤥 𐤦 𐤧 𐤨 𐤩 𐤪 𐤫 𐤬 𐤭 𐤮 𐤯 𐤰 𐤱 𐤲 𐤳 𐤴 𐤵 𐤶 𐤷 𐤸 𐤹 𐤺 𐤻 𐤼 𐤽 𐤾 𐤿 | 𐤐 𐤑 𐤒 𐤓 𐤔 𐤕 𐤖 𐤗 𐤘 𐤙 𐤚 𐤛 𐤜 𐤝 𐤞 𐤟 𐤠 𐤡 𐤢 𐤣 𐤤 𐤥 𐤦 𐤧 𐤨 𐤩 𐤪 𐤫 𐤬 𐤭 𐤮 𐤯 𐤰 𐤱 𐤲 𐤳 𐤴 𐤵 𐤶 𐤷 𐤸 𐤹 𐤺 𐤻 𐤼 𐤽 𐤾 𐤿 | ss19=0 |
| Slanted | 𐤁𐤂 𐤃𐤄 𐤅𐤆 𐤇𐤈 𐤉𐤊 𐤋𐤌 𐤍𐤎 𐤏𐤐 𐤑𐤒 𐤓𐤔 𐤕𐤖 𐤗𐤘 𐤙𐤚 𐤛𐤜 𐤝𐤞 𐤟𐤠 𐤡𐤢 𐤣𐤤 𐤥𐤦 𐤧𐤨 𐤩𐤪 𐤫𐤬 𐤭𐤮 𐤯𐤰 𐤱𐤲 𐤳𐤴 𐤵𐤶 𐤷𐤸 𐤹𐤺 𐤻𐤼 𐤽𐤾 𐤿𐤁 | 𐤐𐤑 𐤒𐤓 𐤔𐤕 𐤖𐤗 𐤘𐤙 𐤚𐤛 𐤜𐤝 𐤞𐤟 𐤠𐤡 𐤢𐤣 𐤤𐤥 𐤦𐤧 𐤨𐤩 𐤪𐤫 𐤬𐤭 𐤮𐤯 𐤰𐤱 𐤲𐤳 𐤴𐤵 𐤶𐤷 𐤸𐤹 𐤺𐤻 𐤼𐤽 𐤾𐤿 | ss19=1 |

Alternate punctuation

Affects: U+0021 U+002C U+002E

| Feature | Sample | Feature setting |
|----------------|--------|-----------------|
| Standard Latin | ! , . | ss20=0 |
| Decorative | ! , . | ss20=1 |

Common features list

The Akatab fonts contain logic that uses features to render certain glyphs and sequences properly. This logic processes the sequence of glyphs and produces the proper visual representation.

The sections below show the use of some formatting characters, notably the TIFINAGH CONSONANT JOINER (U+2D7F) and RIGHT-TO-LEFT OVERRIDE (U+202E). A recommended keyboard for Tifinagh characters and these special characters can be downloaded at the [Keyman Tuareg Tifinagh keyboard](#) web site.

Contextual shaping

Two Tifinagh characters, TIFINAGH LETTER YAL (U+2D4D) and TIFINAGH LETTER YAN (U+2D4F), could cause ambiguity when they appear next to each other. To prevent uncertainty, the second character in the sequence is raised as in the example below:

ⵢⵢ ⵢⵢ ⵢⵢ ⵢⵢ

If the user's preference is slanted bars, the user-selected features *cv19* or *ss19* can be used, as illustrated in the user-selected font features section above.

Ligature formation

Bi-consonant ligatures are formed after typing the character sequences shown in the examples below. Type the first character, e.g. Θ (U+2D31), the TIFINAGH CONSONANT JOINER ◌ (U+2D7F), and then the second character, e.g. + , to get the Θ+ ligature.

| | | | |
|----------|---------|---------|---------|
| Θ ◌ → Θ+ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ◌ → ⵀ+ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |
| ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ | ⵀ ⵀ → ⵀ |

Akatab biconsonant ligature examples

Right-to-left Tifinagh

Historically, Tifinagh did not have a fixed direction. Modern Tifinagh is commonly printed as left-to-right text and [The Unicode Standard: Tifinagh section](#) specifies its directionality as strong left to right while recognizing it can be bidirectional. Akatab has glyph and rendering support for writing in both directions. To get right-to-left behaviour and then reverse the direction, the user can use two invisible formatting characters to change the direction of the characters and the text as follows:

1. U+202E (RIGHT-TO-LEFT OVERRIDE) for right-to-left Tifinagh
The text that follows will be right-to-left. Additionally, the directionality of characters is changed to right-to-left.
2. U+202C (POP DIRECTIONAL FORMATTING) to revert direction for Tifinagh text
The text that follows reverts to the direction of the text before the previous U+202E character.

Akatab examples

The following text demonstrates Tifinagh left-to-right behaviour:

$$01++ + 0\div ||^1 : 0 + \ddot{::}| + [\leq$$

The following text demonstrates Tifinagh right-to-left behaviour using the U+202E character:

$$\sum_{j=1}^n |x_j| + 0 \leq \sum_{j=1}^n |x_j| + 0$$

The following text demonstrates both Tifinagh directional behaviours using the U+202E and U+202C characters:

01++ +0:11' :0 +::1+ [Σ ≥] +1::+ 0: '11:0+ ++10

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