

# 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	ⵍ	ⵍ	cv02=0
I-shape	ⵎ	ⵎ	cv02=1
Open top and bottom	ⵏ	ⵏ	cv14=1 (or cv02=2)

## Alternate YAGHH

Affects: U+2D34

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵀ	ⵀ	cv03=0
Round bottom	ⵁ	ⵁ	cv03=1

## Alternate YAGN

Affects: U+2D50

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵃ	ⵃ	cv04=0
Lowered bottom stroke	ⵄ	ⵄ	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	ⵆ ⵇ ⵈ ⵉ	ⵉ ⵈ ⵇ ⵆ	cv05=0
Short strokes	ⵆ ⵇ ⵈ ⵉ	ⵉ ⵈ ⵇ ⵆ	cv05=1

## Alternate YAZ

Affects: U+2D63

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵏ	ⵏ	cv06=0
Squared	ⵐ	ⵐ	cv06=1

## Alternate AHAGGAR YAZH

Affects: U+2D4B

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵑ	ⵑ	cv07=0
Squared	ⵒ	ⵒ	cv07=1

### Alternate YAB

Affects: U+2D31

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

### Alternate YAG

Affects: U+2D33

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

### Alternate YAJ

Affects: U+2D36

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

### Alternate YAH (Tuareg yab)

Affects: U+2D40

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

### Alternate YASH

Affects: U+2D5B

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⱳ	ⱳ	cv12=0
8 shape	ⱳ̌	ⱳ̌	cv12=1

Alternate YATT

Affects: U+2D5F

Feature	Sample	Sample right-to-left	Feature setting
Standard	E	Ფ	cv13=0
F shape	F	Ქ	cv13=1

Alternate YADH

Affects: U+2D38

Feature	Sample	Sample right-to-left	Feature setting
Standard	V	Პ	cv15=0
Rounded bottom	Რ	Ს	cv15=1

Alternate YAL and YAL

Affects: U+2D4D U+2D4F

Feature	Sample	Sample right-to-left	Feature setting
Standard	Ტ Უ Ფ Ქ Ღ Ყ	Ყ Ღ Ქ Ფ Უ Ტ	cv19=0
Slanted	ᲢᲚ ᲣᲚ ᲤᲚ ᲥᲚ ᲦᲚ ᲧᲚ	ᲧᲚ ᲦᲚ ᲥᲚ ᲤᲚ ᲣᲚ ᲢᲚ	cv19=1

Alternate punctuation

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

Feature	Sample	Sample right-to-left	Feature setting
Standard Latin	! , .		cv20=0
Decorative	Კ Ლ Მ		cv20=1

Alternate YO

Affects: U+2D67

Feature	Sample	Sample right-to-left	Feature setting
Standard	--		cv21=0
Dots	ᲙᲚ		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
	⌞	⌞	cv34=1

Feature	Sample	Sample right-to-left	Feature setting
Mid exterior T			
Low interior T	Ლ	Ლ	cv34=2
Center T	Მ	Მ	cv34=3

### Alternate YAF YAT

Affects: U+2D3C U+2D5C

Feature	Sample	Sample right-to-left	Feature setting
Standard	ᲚᲚ	ᲚᲚ	cv35=0
Single bar, middle exterior T	ᲚᲛ	ᲚᲛ	cv02=1
Double bar, middle exterior T	ᲚᲛᲛ	ᲚᲛᲛ	cv35=1
Single bar, middle interior T	ᲚᲛ	ᲚᲛ	cv35=2 (or cv02=1)
Open top & bottom, interior T	ᲚᲛᲛ	ᲚᲛᲛ	cv14=1 (or cv02=2)

### Alternate YAN TUAREG YAK

Affects: U+2D4F U+2D3E

Feature	Sample	Sample right-to-left	Feature setting
Standard	ᲚᲚ	ᲚᲚ	cv36=0
Double cluster dots	ᲚᲚᲚ	ᲚᲚᲚ	cv36=1

Alternate YAN YAT

Affects: U+2D4F U+2D5C

Feature	Sample	Sample right-to-left	Feature setting
Standard	𐤛	𐤛	cv37=0
Side bar	𐤛	𐤛	cv37=1
Top bar	𐤛	𐤛	cv37=2

Alternate YAL YAT

Affects: U+2D4D U+2D5C

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

Alternate YU YAT (WT)

Affects: U+2D53 U+2D5C

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

Alternate TUAREG YAZH YAT

Affects: U+2D4C U+2D5C

Feature	Sample	Sample right-to-left	Feature setting
Standard	𐤛𐤛	𐤛𐤛	cv40=0
	𐤛𐤛	𐤛𐤛	cv40=1

Feature	Sample	Sample right-to-left	Feature setting
Mid exterior T			
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	⌘	⌘	cv42=0
Top and bottom bars	⌚	⌚	cv42=1
No bars	⌞	⌞	cv14=1 (or cv02=2)

### Alternate YAN YAJ

Affects: U+2D4F U+2D36

Feature	Sample	Sample right-to-left	Feature setting
Standard	‡	‡	cv43=0
Top and bottom dots	‡.	‡.	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	Ƶ	Ƶ	cv45=0
Exterior circles	⦶	⦶	cv45=1

Alternate YAR TUAREG YAK

Affects: U+2D54 U+2D3E

Feature	Sample	Sample right-to-left	Feature setting
Standard	Ɔ	Ɔ	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	Ɔ	Ɔ	cv47=0
Double cluster dots	⦶	⦶	cv47=1
8 shape	⦶	⦶	cv12=1
8 shape, double cluster dots	⦶	⦶	cv47=2

Alternate YASH YAT

Affects: U+2D5B U+2D5C

Feature	Sample	Sample right-to-left	Feature setting
Standard	Ɔ	Ɔ	cv48=0
Internal T	Ɔ	Ɔ	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	⌈	⌈	ss02=0
I-shape	⌈	⌈	ss02=1
Open top and bottom	⌈	⌈	ss14=1

### Alternate YAGHH

Affects: U+2D34

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

### Alternate YAGN

Affects: U+2D50

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

### Alternate YU

Affects: U+2D53

Feature	Sample	Sample right-to-left	Feature setting
Standard			ss05=0

Feature	Sample	Sample right-to-left	Feature setting
	:	:	
Short strokes	⋮	⋮	ss05=1

## Alternate YAZ

Affects: U+2D63

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

## Alternate Ahaggar YAZH

Affects: U+2D4B

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

## Alternate YAB

Affects: U+2D31

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

## Alternate YAG

Affects: U+2D33

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

### Alternate YAJ

Affects: U+2D36

Feature	Sample	Sample right-to-left	Feature setting
Standard	Ĳ	Ĳ	ss10=0
Lower dots	Ĳ̣	Ĳ̣	ss10=1

### Alternate YAH (Tuareg yab)

Affects: U+2D40

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵢ	ⵢ	ss11=0
Rectangle style	ⵢ̐	ⵢ̐	ss11=1

### Alternate YASH

Affects: U+2D5B

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵧ	ⵧ	ss12=0
8 shape	ⵧ̐	ⵧ̐	ss12=1

### Alternate YATT

Affects: U+2D5F

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵢ̐	ⵢ̐	ss13=0
F shape	ⵢ̐̐	ⵢ̐̐	ss13=1

### Alternate YADH

Affects: U+2D38

Feature	Sample	Sample right-to-left	Feature setting
Standard	ⵤ	ⵤ	ss15=0
Rounded bottom	ⵤ̐	ⵤ̐	ss15=1

## Alternate YAL and YAL

Affects: U+2D4D U+2D4F

Feature	Sample	Sample right-to-left	Feature setting
Standard	ǀǀ ǂǂ ǃǃ ǄǄ	ǃǃ ǂǂ ǂǂ ǀǀ	ss19=0
Slanted	ǀǀ ǂǂ ǃǃ ǄǄ	ǃǃ ǂǂ ǂǂ ǀǀ	ss19=1

## Alternate punctuation

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

Feature	Sample	Sample right-to-left	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:

ǀǀ ǂǂ ǃǃ ǄǄ

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.

