

StuTS 71, Leeuwarden 27/05/2022

Jeanne Lecavelier (<u>lecavelierde@uni-potsdam.de</u>)
Irina Stroescu (<u>stroescu.irina@yahoo.com</u>)

University of Potsdam

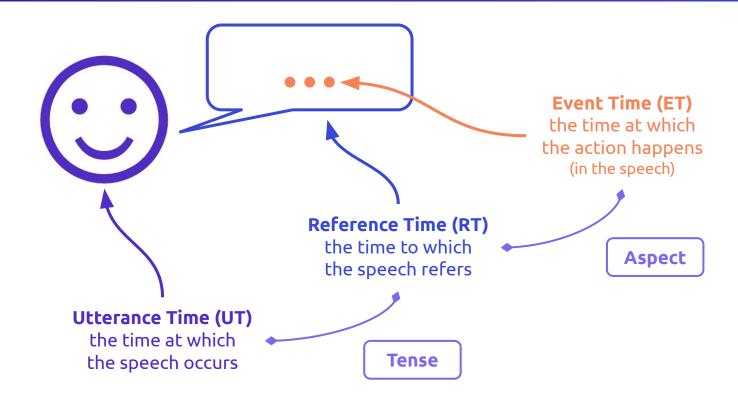


Plan

1. How to model tenses and aspects?

2. A first sketch of the tense-aspect system of Jula



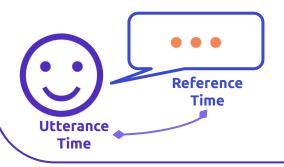


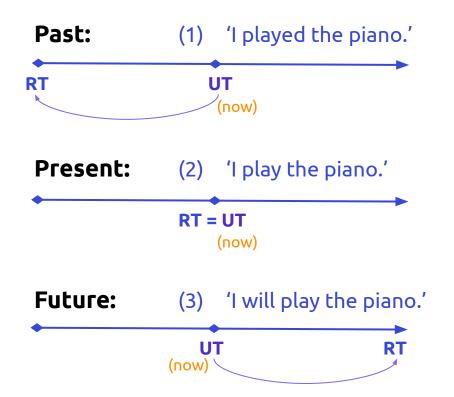


Tense

'It serves to locate the situation in relation to the "now" of the speech act.' (Klein, 2009)

⇒ relation between **UT** & **RT**



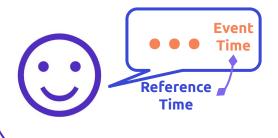




Aspect:

'It serves to "present" a situation from a particular viewpoint, for example as on-going or as completed.' (Klein, 2009)

⇒ relation between RT & ET



Perfect(ive): (4) 'I have played the piano.'



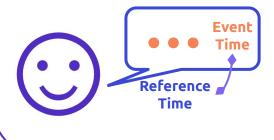


Aspect:

'It serves to "present" a situation from a particular viewpoint, for example as on-going or as completed.'

(Klein, 2009)

⇒ relation between RT & ET



Imperfective:

(6) **[Progressive]** 'I am playing the piano.'

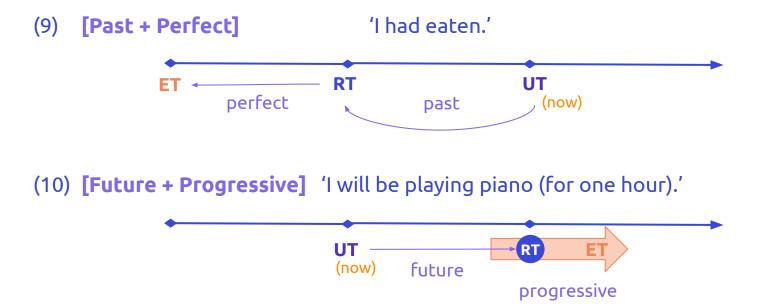


(7) **[Habitual]** 'I (usually) play the piano.'





It is also possible to combine different tense and aspects, e.g.:



 We consider that a language has tenses or aspects if it encodes them on the verb

• Of course, time can also be encoded through particles, adverbials, etc., which are especially useful for tenseless languages!

```
e.g. 'before', 'after', 'already', 'still'...
```

Jula



Jula (or Dyula, Dioula, Julakan)

- belongs to the Mande language family
 - mutually intelligible with Bambara and Malinke
- spoken in Burkina Faso, Ivory Coast and Mali
- may be written in Latin, Arabic or N'ko script
- almost 7 millions of native speakers
- SOV language



https://www.ankataa.com/blog/2019/4/30/bambara-and-dioula

How to investigate Jula?



- Almost no written grammar
- Data coming from 3x1h30 with a native speaker
 - \Rightarrow 110-130 sentences
- Elicitations
- Acceptability judgements & translations

How to investigate Jula?



Elicitations

- with various verbs (transitive/intransitive, telic/atelic, stative...)
- with simple contexts (such as 'yesterday', 'regularly'...)
- with complex sentences (before/after, when...)

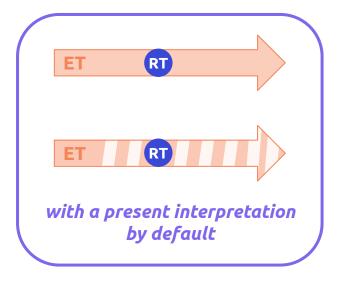
Acceptability judgements & translations

- To check for underspecification
- To test marker combinations



Imperfective is marked by the particle 'be'

- (11) a. Jakuma **be** sunôgô. cat **IPFV** sleep 'The cat sleeps (regularly).'
 - b. Hawa **be** Fofana kanu. Hawa **IPFV** Fofana loves 'Hawa loves Fofana.'



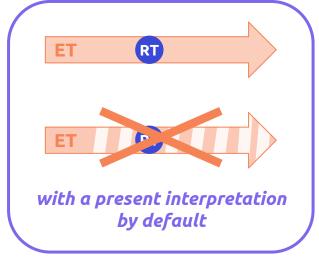


• 'be' + the suffix '-na'/'-la' expresses a sub-aspect: the progressive

(12) a. Fofana **be** se-**la**.

Fofana **IPFV** arrive.there-**PROG**'Fofana is arriving.'

b. Zan be zurnali-w kalan-na.John IPFV newspaper-PL read-PROG



'John is reading newspapers.'



When negated the particle 'be' changes to 'te'

- (13) a. Mariam **te** farini dumu.

 Mary **IPFV.NEG** cookies eat

 'Mary does not eat cookies.'
 - b. Hawa **te** farini dumun**-na**Hawa **IPFV.NEG** cookie eat**-PROG**'Hawa is not eating cookies.'

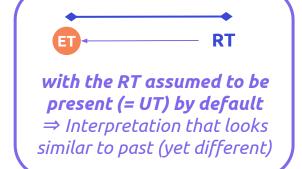


Interim conclusion

- Distinction (or sub-aspect) within the imperfective aspect: PROG which is expressed with an additional suffix
 - When the IPFV appears without a PROG suffix it is interpreted as [+IPFV] [-PROG]
 - ⇒ Therefore raising a **habitual interpretation** for pragmatic reasons
- Allomorphy of suffixes for unknown reasons: -na/-la



- Perfect(ive) is marked differently depending on whether the verb is transitive or intransitive
 - Transitive verbs trigger the particle 'ye'
- (14) Zan ye zurnali kalan kunu. John PFV newspaper read yesterday 'John read the newspaper yesterday.'

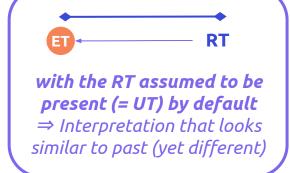




- Perfective is marked differently depending on whether the verb is transitive or intransitive
 - Intransitive verbs trigger the suffix '-na'/'-la'
- (15) a. Hawa ticun**-la** kunu Hawa sneeze**-PFV** yesterday 'Hawa sneezed yesterday.'
 - b. Zan na-na.

 John arrive.here-PFV

 'John (had) arrived.'





 When negated the perfective is expressed through the particle 'ma' for both transitive and intransitive verbs

```
(16) a. Hawa ma farini dumu.
Hawa PFV.NEG cookie eat
'Hawa hasn't eaten cookies.'
```

b. Hawa **ma** ticun.

Hawa **PFV.NEG** sneeze

'Hawa hasn't sneezed.'



Perfect or perfective?

- Perfective indicates that the ET is bounded to some point in the time
 - ⇒ Hence completed by the RT
 - ⇒ Usually **restricted to past interpretation** in its typical use



- Perfect indicates that the ET precedes the RT
 - ⇒ Usually close to a past interpretation





Perfect or perfective?

- Both are very close...
- But **perfective cannot be combined with imperfective**, contrary to perfect

```
(17) I have been playing piano. PERF IPFV
```

(18) *Hawa **ye be** zurnaliw kalan**-na**Hawa **PFV IPFV** newspaper-PL read**-PROG** *intended:* 'Hawa has been reading newspapers.'

Interim conclusion

- Perfect(ive) marking is different for transitive and intransitive verbs in positive sentences
- Allomorphy of suffixes for unknown reasons: -na/-la/-ra
 - Without more data, it is impossible to determine whether the PROG and PFV suffixes for intransitive verbs are the same affix

Perfect(ive) and imperfective



Some syncretism?

- Both the PROG affix and the PFV affix (for transitive verbs in positive contexts) exhibit a similar allomorphy: -la/-na/(-ra)
- However, this allomorphy seems to be triggered differently for both affixes

	-la	-na	-ra
PROG	kalan (to read) se (to arrive there)	kalan <i>(to read)</i> na <i>(to arrive here)</i>	?
PFV	ticun (to sneeze) se (to arrive there) taga (to go)	ticun (to sneeze) na (to arrive here)	taga <i>(to go)</i>

Prospective

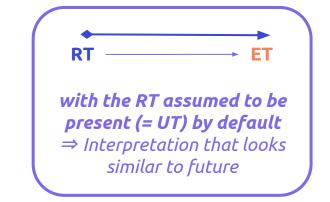


Prospective is marked by the particle 'bena'

(19) Hawa **bena** zurnali-w kalan.

Hawa **PROS** newspaper-PL read

'Hawa will read newspapers.'



Prospective

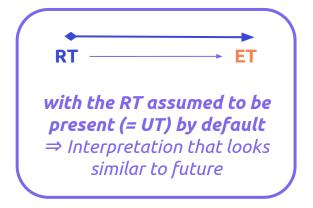


 When negated, the prospective is then marked by the particle 'tena'

(20) Fofana **tena** môbili ko.

Fofana **PROS.NEG** car clean

'Fofana won't clean the car.'



Prospective



A possible origin

- 'bena'/'tena' could be decomposed in two parts:
 - 'be'/'te' which is the IPFV marker
 - 'na' which is the verb 'to arrive (there)'
- It is crosslinguistically common to have a motional verb grammaticalized into future-like meaning
- It is also crosslinguistically common to get future-like readings from IPFV
- (21) I am going to read the next slide.

Past expression



 All aspects can have their RT shifted to the past with the tense particle 'tun'

- (22) a. Hawa **tun bena** zurnali-w kalan kunu...

 Hawa **PAST PROS** newspaper-PL read yesterday

 'Hawa was about to read newspapers yesterday... (when something happened)'
 - b. Hawa **tun** *(be) zurnali-w kalan Hawa **PAST** IPFV newspaper-PL read 'Hawa used to read newspapers.'
 - c. Cê **tun be** farini dumu**-na** kunu

 Man **PAST IPFV** cookie eat**-PROG** yesterday

 'He was eating cookies yesterday.'

Past expression



All aspects can have their RT shifted to the past with the tense particle 'tun'

```
zurnali
(23)
     Tuma
              min na
                            Hawa
                                     tun
                                                                 kalan-la,
                                                                               Mariam
                            Hawa
                                     PAST
                                                                 read-PROG
     Time
              REL PostP
                                               IPFV newspaper
                                                                               Marv
                   farini dun ka
                                     ban.
     tun
              ve
     PAST
              PFV cookie
                            eat INF
                                     finish
     'When
                             reading
                                       the
                                                                        the
                                                                              cookies.
              Hawa
                                                          Marv
                                             newspaper,
                                                                  ate
                      was
```

- The negation is beared by the aspect, not 'tun'
- (24) Hawa **tun ma** ticun Hawa **PAST PFV.NEG** sneeze 'Hawa hadn't sneezed.'

Complex sentences



- Complex sentences allow to test for embedded temporalities
 ⇒ e.g. situations in which the UT/RT relationship (tense) is the reverse of the RT/ET relationship (aspect)
- (25) a. <u>Context 1:</u> Mary **baked a cake yesterday**, but she kept it and she plans to eat it tomorrow evening.
 - b. <u>Context 2:</u> Mary **has planned to bake a cake tomorrow morning**, so that she can eat it later that day.
 - c. Sini wulafê Mariam bena farini dun a (tun) ye min tobi. Tomorrow evening Mary PROS cookie eat 3SG (PAST) PFV REL bake 'Tomorrow evening, Mary will eat a cake that she (had) baked.'

Complex sentences



- Complex sentences allow to test for embedded temporalities
 ⇒ e.g. situations in which the UT/RT relationship (tense) is the reverse of the RT/ET relationship (aspect)
- (26) a. <u>Context 1:</u> Yesterday morning, Mary baked a cake for her birthday party, **which is tomorrow**.
 - b. <u>Context 2:</u> Yesterday morning, Mary baked a cake for her birthday party, **which was** in the evening.
 - c. Kunu Mariam ye farini tobi min a tun bena dun a ka wolofêti la yesterday Mary PFV cookie bake REL 3SG PAST FUT eat 3SG her birthday PostP 'Yesterday, Mary baked the cake she would eat for her birthday.'

Take-home message



Tenses & aspects are two different things

- Sometimes a 'past' is actually a perfect(ive), and a 'future' is actually a prospective
- It is actually not so difficult to come up with some tests to distinguish between them!

Jula is mainly aspectual

- Three main aspects: imperfective (+ progressive), perfective & prospective
- One past particle
- ... and many other puzzles to investigate further!