A progressive motion verb puzzle in Valley Zapotec

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Round-trip properties of deictic motion verbs

Kuiper & Merrifield (1975): Diuxi Mixtec Speck & Pickett (1976): Texmelucan Zapotec

Claim: deictic motion verbs (`come' and `go') express round-trip paths.

Evidence: progressive-marked `come' and `go' can be used even once the destination has been reached, as long as the subject has not returned to the origin.

Round-trip properties of deictic motion verbs

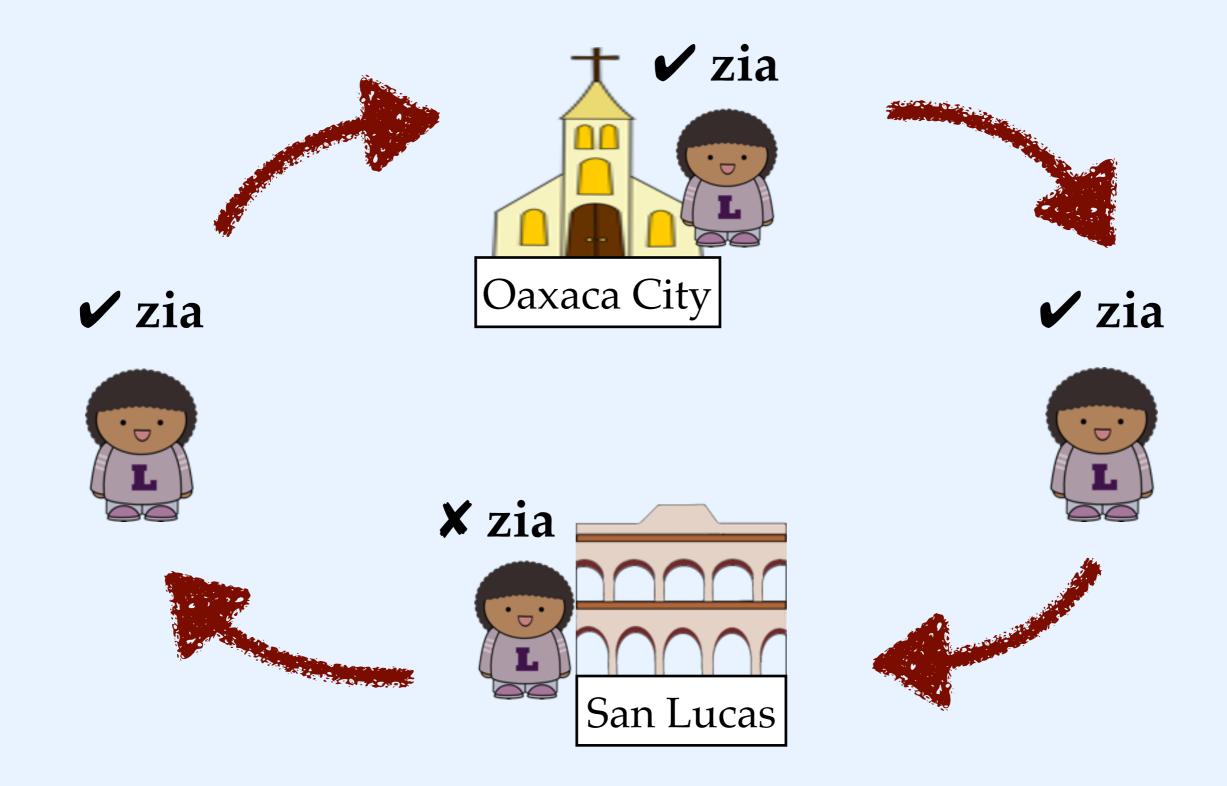
Evidence: progressive-marked `come' and `go' can be used even once the destination has been reached, as long as the subject has not returned to the origin.

This is true in San Lucas Quiaviní Zapotec (SLQZ):

Ndua z-e Brook. Oaxaca ZPROG-go Brook

'Brook went to Oaxaca.'

Comment: She may be on her way, in Oaxaca, or on her way back, but she hasn't returned to San Lucas.



Round-trip properties of deictic motion verbs

Round-trip Claim:

deictic motion verbs
have round-trip
interpretations
because the lexical
semantics of the verbs
express round-trip paths.

My Claim:

round-trip interpretations of deictic motion verbs arise through an interaction with the special z-progressive aspect marker.

San Lucas Quiaviní Zapotec

- Western Tlacolula Valley Zapotec language (Otomanguean)
- Spoken in the village of San Lucas Quiaviní in Oaxaca, Mexico
- Endangered and underdocumented (Pérez Báez 2016)
- Data presented comes from fieldwork with eight speakers in the village of San Lucas in 2016 and 2017, as well as textual sources such as Munro et al. (2006), Munro & Lopez (1999), and online writings of SLQZ speakers (Lillehaugen 2016) where cited.

SLQZ Syntax

```
aspect (morph) root subj. clitic
```

```
r- ied -tau = a
```

HAB VEN eat =1s

'I habitually come and eat'

SLQZ Aspect Inventory (Munro et. al 2006)

Morpheme	Gloss	Description
b- / m- / w-	PERF	perfective
ca- / cal- / can-	PROG	progressive
g-/ny-/y-	IRR	irrealis
n-	ST	neutral/stative
r -	HAB	habitual
s- /z-	DEF	definite future
Z-	ZPROG	

The z-progressive aspect

SLQZ deictic motion verbs can't take the normal ca-progressive aspect; instead they use z-.

Lee (2006) calls it non-future definite and analyzes it as a positive polarity item.

Munro (2007) calls it incompletive and presents evidence that it is not the same as the definite future z- aspect.

SLQZ motion verbs

3 deictic motion verbs in SLQZ:

- * ried `come'
- * ria `go'
- * ria `go home'

Perspectival anchors

Deictic motion verbs describe motion relative to the location of a perspective-holder or anchor.

Speaker-anchored: Sarah is coming to see me.

Listener-anchored: I will come over around noon.

Attitude-holder-anchored: John thought that Sarah was coming to see him last week.

Context: John is in NY, the speaker and addressee are in LA.

Perspectival anchors

Perspectives are also time-indexed:

Utterance-time-anchored: Come here, please!

Event-time-anchored: When I got to the cafe last night, it was packed, but by the time Wilma came, it was nearly empty.

Context: the speaker is in her office talking to her officemate.

Perspectival anchors

Not all of these attested perspectival anchors license ried 'come' in SLQZ:

R-rilo Jwany a bets=ëng a

HAB-think Juan already brother=3s already

z-e/*ied-gan laëng

ZPROG-go/*come-visit 3s

John thinks that his brother is on the way to visit him. *Context: speaker and listener are not in the same place as John.*

Destination implication

The destination of motion does not need to be the location of the perspective-holder, so long as the motion is towards the perspective-holder.

R-inydyag=a ai nih r-to ze z-ied HAB-hear=1s 3s.dist REL HAB-sell corn ZPROG-come

lo=ën to=1p

'I hear the man who sells corn coming towards us.' Context: the man is coming towards us, but not to us—he'll continue on his route after passing us.

Semantics of deictic motion verbs

Semantics for ria `go':

```
[[ia Jwany]]^{w,c} = \lambda e. \exists p,z,y. Motion(e) & Path(p,e) & Origin(p,y) & Dest(p,z) & Patient(J,e)
```

Semantics for ried `come':

```
[[ied Jwany]]w,c =
```

- (a) $\lambda e. \exists p,z,y . Motion(e) & Path(p,e) & Origin(p,y) & Dest(p,z) & Patient(J,e)$
- (b) *J* is moving towards the perspective-holder

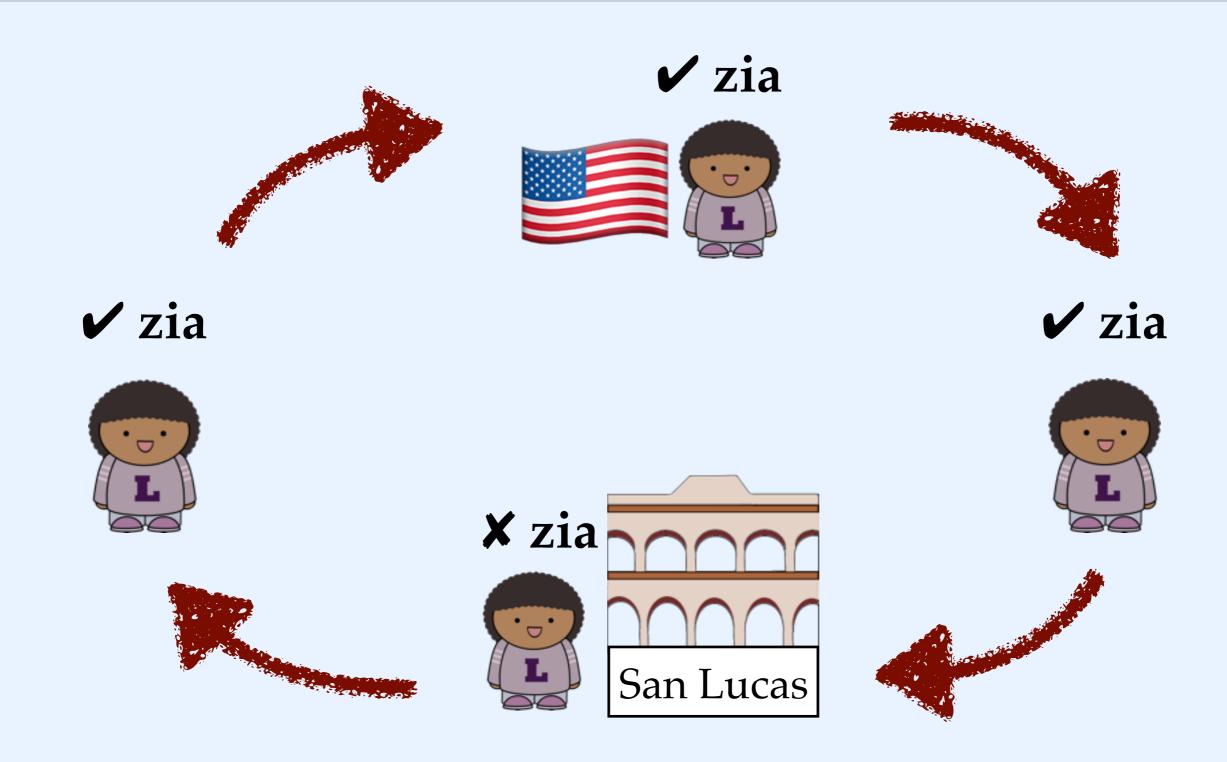
Aëng z-e ladi per daru

3s ZPROG-go side but then

gy-i=ëng FUT-come=3s

'He went to the US but he's coming back.' *Judgment: felicitous if the subject is on the way to the US, already arrived, or on his way back.*

Round-trip behavior of zia



A Brook z-e Bac already Brook ZPROG-go Tlacolula asy wxiny gy-icy=ëng later evening FUT-return=3s

'Brook went to Tlacolula and is returning tonight.'

Context: Brook left in the morning for Tlacolula and is returning that same day.

Speaker judgments about ried 'come' are less clear:

#A Bed n-u re' z-ied-gan already Pedro ST-be here ZPROG-VEN-visit danoën 1p

Intended: 'Pedro is already here and he is coming to visit us.'

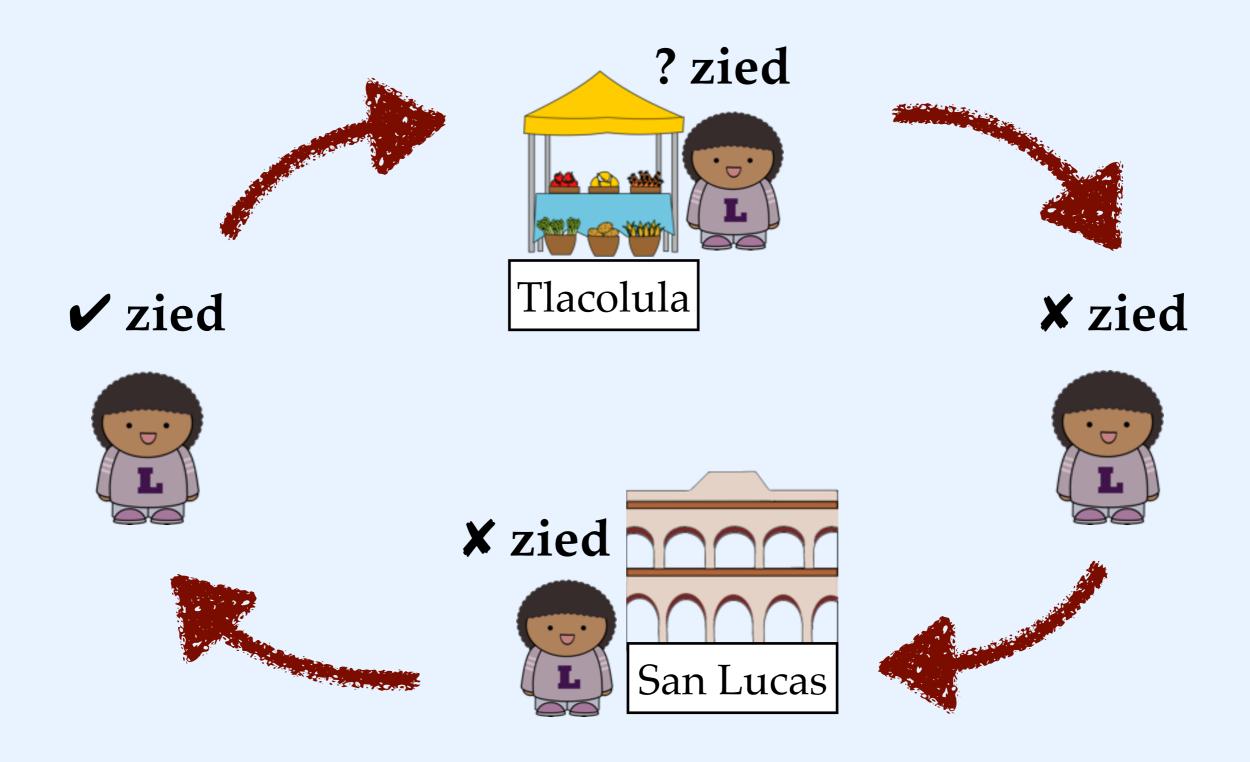
Context: Pedro has traveled from Oaxaca City to San Lucas.

Speaker judgments about *ried* 'come' are less clear:

Z-ied Gye'eihlly laanih
ZPROG-come Mike party
`Mike came/is coming to the party.'

Reported judgment (Lee 2006): He's either on his way, or has just arrived but not yet started participating in the party

Round-trip behavior of zied



Round-trip properties of deictic motion verbs

Round-trip Claim:

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round-trip interpretations of deictic motion verbs arise through an interaction with the special z-progressive aspect marker.

There is no round-trip implication in other aspects:

gw-e xtadmam=a ladi lo 1983.

PERF-go grandfather=1s side in 1983

'My grandfather went to the US in 1983.'

Context: he died there without ever returning.

There is no round-trip implication in other aspects:

gw-a=a Bac a's chiru gwa=a
PERF-go=1s Tlacolula then and PERF-go=1s
Ndua
Oaxaca.City

'I went to Tlacolula, then I went to Oaxaca City.'

Context: Speaker traveled from San Lucas to Tlacolula and then directly to Oaxaca.

There is no round-trip implication in other aspects:

b-yal=a de US a nai
PERF-come=1s from US already yesterday
`I came from the US yesterday.'

Context: the speaker arrived in Oaxaca for the first time the day before.

There is no round-trip implication in other aspects:

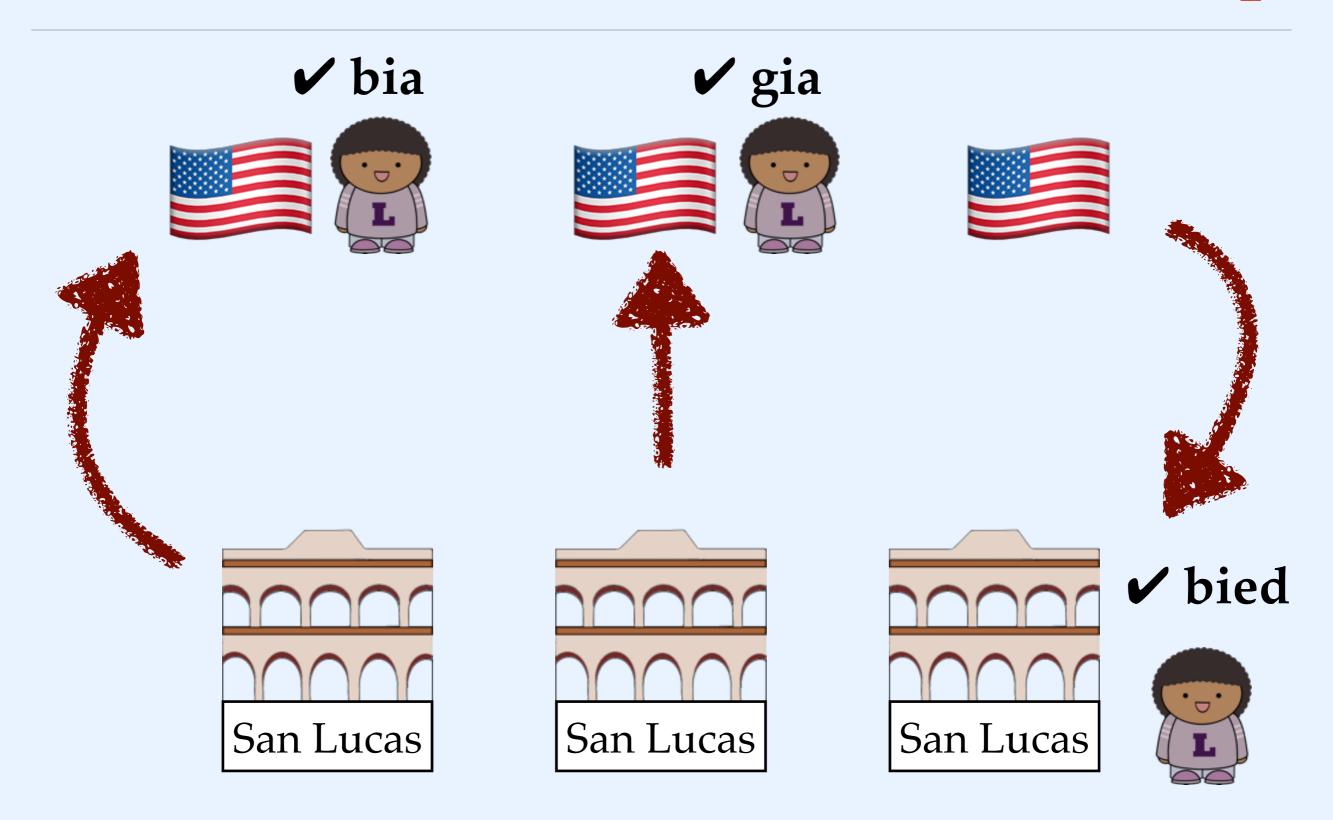
```
Ladi ch-a=a zhi. side IRR-go=1s day
```

'I'm going to the US tomorrow.'

```
A gual gy-i=u.

MOD IRR-go=2s
```

'It's time for you to go.'



The semantics of the z-progressive

The z-progressive isn't an ordinary progressive marker: it requires that a result state of the predicate holds at Topic Time.

[[ZPROG]]^{w,c} = $[\lambda P_{\langle \epsilon,t \rangle}: [\lambda t'_i: \exists e,s. Cause(e,s) \& t \subseteq T(s) \& P(e)]]$

A function from predicates of type <e,t> to predicates of type <i,t> for which there is an event e of which the predicate holds and a state s holding at Topic Time that is caused by e

The semantics of the z-progressive

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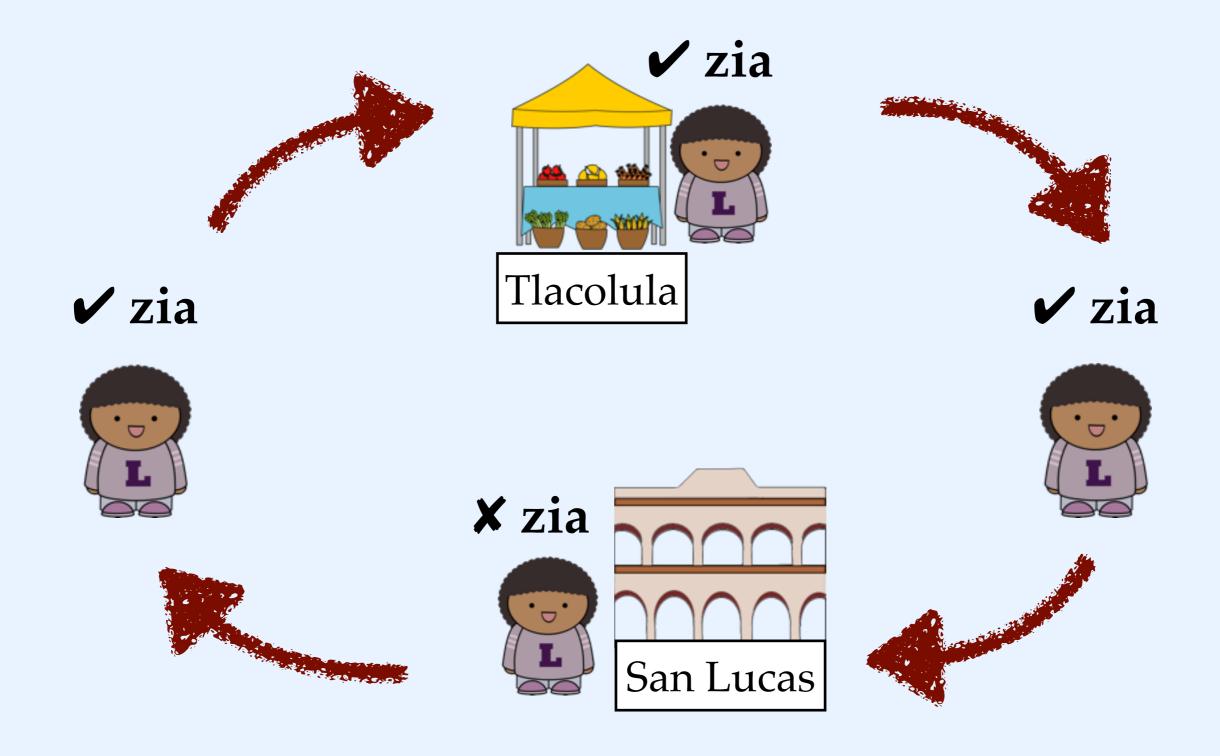
Captures the fact that the z-progressive can be used even when the event it modifies is no longer under way.

The semantics of zia

```
[[ia Jwany]]^{w,c} = \lambda e : \exists p, z, y . Motion(e) & Path(p,e) & Origin(p,y) & Dest(p,z) & Patient(J,e)
[[[ZPROG]]^{w,c} = \lambda P_{\langle \varepsilon,t \rangle} : [\lambda t'_i : \exists e,s. Cause(e,s) & t' \subseteq T(s) & P(e)]]
[[[zia Jwany]]^{w,c} = \lambda t'_i : \exists e,s,p,z,y. Cause(e,s) &
```

 $t' \subseteq T(s) \& Motion(e) \& Path(p,e) \& Origin(p,y)$

& Dest(p,z) & Patient(J,e)]



Aëng z-e ladi per daru gy-i=ëng 3s ZPROG-go side but then FUT-come=3s

'He went to the US but he's coming back.'

Judgment: felicitous if the subject is on the way to the US, already arrived, or on his way back.

Predicted to be felicitous so long as the resultstate of having left holds.

De'ihzy z-a=a
just.now ZPROG-go=1s
`I just left [the party].'

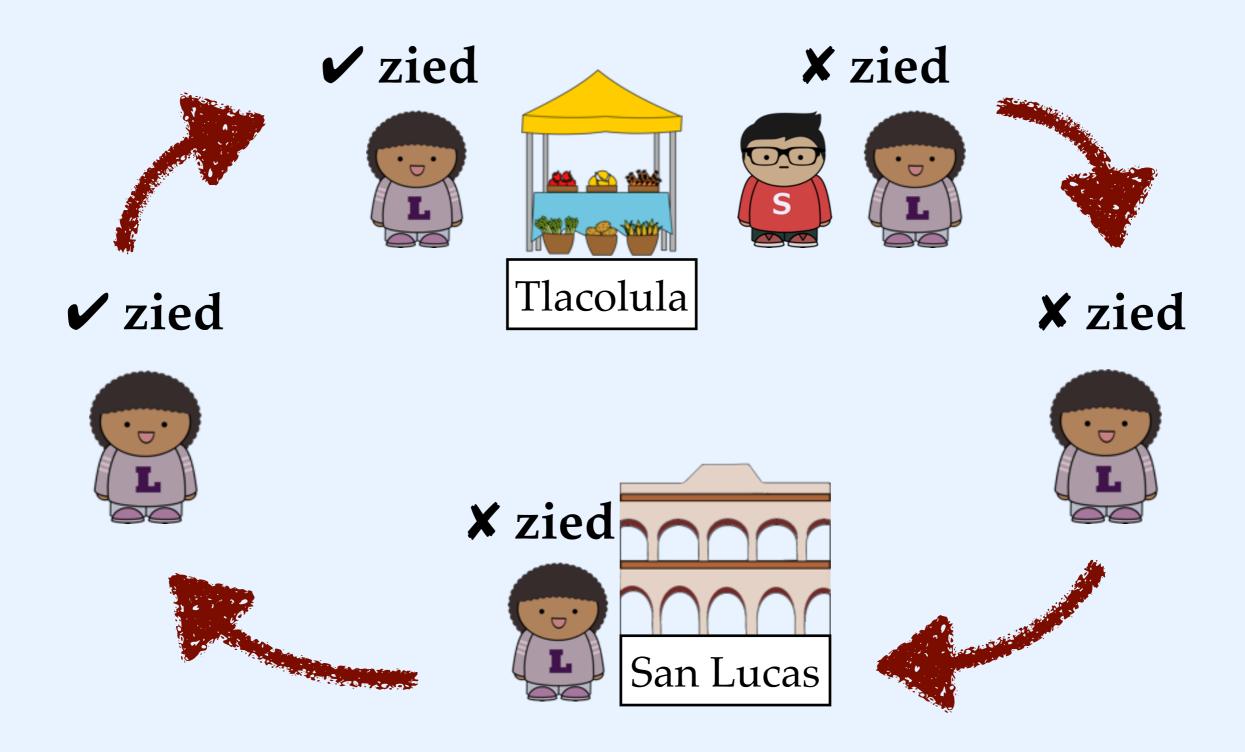




The semantics of zied

```
[[ied Jwany]]w,c = (a) \lambda e. \exists p,z,y . Motion(e) & Path(p,e)
& Origin(p,y) & Dest(p,z) & Patient(J,e)
(b) I is moving towards the perspective-holder
[[[ZPROG]]^{w,c} = \lambda P_{\langle \varepsilon,t \rangle} : [\lambda t'_i : \exists e,s. Cause(e,s) \& t' \subseteq
T(s) & P(e)
```

- [[[zied Jwany]] $w,c = (a) \lambda t'_i : \exists e,s,p,z,y$. Cause(e,s) & $t' \subseteq T(s) \& Motion(e) \& Path(p,e) \& Origin(p,y)$ & Dest(p,z) & Patient(J,e)] (b) *I* is moving towards the perspective-holder



Z-ied Gye'eihlly laanih ZPROG-come Mike party `Mike came/is coming to the party.'

Reported judgment (Lee 2006): He's either on his way, or has just arrived but not yet started participating in the party

Predicted to be felicitous until the subject has reached the perspective-holder's destination.

#A Bed n-u re' z-ied-gan already Pedro ST-be here ZPROG-VEN-visit danoën 1p

Intended: `Pedro is already here and he is coming to visit us.'

Context: Pedro has traveled from Oaxaca City to San Lucas.

Predicted to be felicitous until the subject has reached the perspective-holder's destination.

Change-of-state venitive constructions

The result-state semantics of the z-progressive aspect suggests an explanation for a special reading that arises with z-progressive-marked venitive constructions.

Venitive construction:

Rata rsily r-ied-tyug Lia Petr gyia. Every morning HAB-VEN-cut Miss Petra flowers `Every morning Petra comes and cuts flowers.'

Change-of-state venitive constructions

Andative and venitive constructions usually entail actual motion, but z-progressive venitive constructions give rise to change-of-state readings.

#Gu-ro=ëng. PERF.AND-grow=3s

Intended: 'He went and grew up.'

Infelicitous because there is no motion

Ladi gu-ro=ëng.
side PERF.AND-grow=3s

'He went and grew up in the States.'

Felicitous because there is motion

Change-of-state andative constructions

Andative and venitive constructions usually entail actual motion, but z-progressive venitive constructions give rise to change-of-state readings.

```
#Gu-ro=ëng.
PERF.AND-grow=3s
```

Intended: 'He went and grew up.'

Infelicitous because there is no motion

```
Uas nguel z-ied-ro=ëng.

very fast ZPROG-VEN-grow=3s

`He's growing up very fast!'
```

Felicitous despite lack of motion

Conclusion

- * The SLQZ z-progressive aspect has a resultstate semantics
- SLQZ deictic motion verbs do not denote round-trip paths
- Perhaps deictic motion verbs in other Otomanguean languages don't either!

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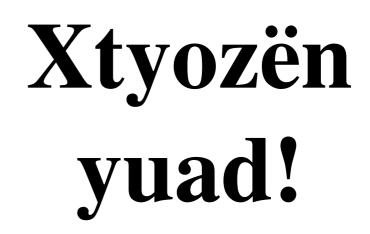
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Contexts of no return

M-na=a z-e

x-muly=a

PERF-see=1s ZPROG-go POSS-money=1s

Pedro ST-be here ZPROG-VEN-visit

M-na=a z-e rrelo xten=a

PERF-see=1s ZPROG-go watch POSS=1s

'I saw my money go. I saw my watch go'

Context: the speaker is talking about being robbed during a border crossing several years ago. (Munro et. al 2006)