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*Multi-CAST Tabasaran annotation notes* v1.0 last updated 27 January 2021
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1 Notes on the GRAID annotations

The following comprises selected notes on the GRAID (Haig & Schnell 2014) and ReflIND (Schiborr et al. 2018) annotations of Tabasaran. It corresponds to version 2101 of the annotations, published in January 2021. Unless a more recent version of this document exists, it also applies to any later versions of the annotations.

1.1 Ergativity and the distinction between S and A

Tabasaran is a language with ergative-absolutive alignment (Bogomolova 2021): The Patient-like argument (P) of transitive clauses and the single argument (S) of intransitive clauses receive the same (absolutive) case marking in the morphology, distinct from the (ergative) marking of the Agent-like argument (A) of transitive clauses. In Tabasaran, the absolutive case (ABS) is not formally marked.

For the GRAID annotations of the A, S, and P roles in Tabasaran, we follow the language-specific morphology in glossing the ergative-marked argument as ⟨:a⟩, an absolutive-marked object as ⟨:p⟩, and an absolutive-marked subject as ⟨:s⟩. Examples (1) and (2) illustrate this practice:

(1) hamubic’i ćuću čan ćuć:un va’ć:niqinži qipru hadmu vič.

<table>
<thead>
<tr>
<th>ha-mu</th>
<th>bic’i</th>
<th>ćuću</th>
<th>ča-n</th>
<th>ćuć:u-n</th>
</tr>
</thead>
<tbody>
<tr>
<td>va’ć:niqinži qipru hadmu vič</td>
<td>armpit:POST-LAT-DIR POST&lt;-NSG&gt;throw-FUT EMPH-3P(ATTR) apple(ABS)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>np:g</td>
<td>v:pred</td>
<td>lnDem</td>
<td>np:p</td>
<td></td>
</tr>
</tbody>
</table>

‘The small brother threw the apple into the armpit of his brother.’

(2) rabadan jiwar.ikan sad jik.an ńw’ru mažgl:in səl.az.

<table>
<thead>
<tr>
<th>rabadan</th>
<th>jiwar.ikan</th>
<th>sad</th>
<th>jik.an</th>
<th>nw’ru</th>
<th>mažgl:in</th>
<th>səl.az</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabadan(ABS)</td>
<td>day-PL-CONT-ELAT</td>
<td>one-NSG</td>
<td>day-GEN</td>
<td>come-FUT</td>
<td>Mezhgul-PL-GEN</td>
<td></td>
</tr>
<tr>
<td>səl.az</td>
<td>village-DAT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>np:g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‘One day, Rabadan goes to the village of the Mezhgul people.’

For the vast majority of predicates in the corpus, adherence to the language-specific morphology yields results that are compatible with our general approach to A and P, as outlined in Andrews (2007: 137). This approach has the advantage of providing clearly defined criteria for the purposes of annotation, and we have maintained it as the default throughout the corpus.

Under certain circumstances, the morphology does not align with our cross-linguistic definition of S, A, and P, which necessitates adaptations to our annotation conventions, discussed in the sections below.
1.1.1 Experiencer verbs

In Tabasaran, a number of predicates assign quirky subject case. The most common of these are experiencer verbs such as ‘see’, ‘hear’, and ‘want’, whose Experiencer-argument takes the dative case. We have annotated such subjects as (ːncs) ‘non-canonical subjects’. With bivalent experiencer verbs, the Stimulus is in the absolutive, and is hence treated as (ːp). There are are numerous ways of interpreting the argument structure of these verbs; these use of the (ːncs) and (ːp) symbols is a compromise solution. Examples of experiencer verbs are illustrated in (3) and (4).

(3) jarab allah k’ur, hamu uzuz ra’<b>-q:u’rajib nimk’i k’ur, ...
   jarab allah k’ur ha-mu uzu-z ra’<b>-q:u’ra-ji-b
   VOC Allah CIT EMPH-PROX(ABS) I-DAT <NSG>see-PRS-PTCP-NSG
   #ds_pc other other other other other pro.1:ncs_pc v:pred
   nimk’i k’ur
   dream(ABS) CIT
   np:p other
   ‘[He thought, ] Oh God, am I seeing dreams?’
   [mc_tabasaran_work_0112]

(4) ja muvaz fuk’ara gundar
   ja muva-z fuk’a =ra gun-dar
   or PROX-DAT nothing(ABS) =ADD want-PRS.NEG
   ##neg other dem_pro.h:ncs indef_other:p =other v:pred
   ‘He did not want anything.’
   [mc_tabasaran_naz_0031]

1.1.2 Predicative expressions of possession

In predicative expressions of possession in Tabasaran, the possessor normally receives dative case and the possessee absolutive case. We treat these clauses as transitive clauses with quirky subject case, so that the possessor is annotated (ːncs_poss) ‘non-canonical subject of a possessive expression’, and the possessee as (ːp) since it is in the absolutive.

(5) musaz šulu sab liȥ, malar, źerdar, k’erqar, fjir.
   musa-z šu-l-u sa-b liȥ mal-ar źerd-ar
   PROX-DAT become-FUT one-NSG herd(ABS) cattle-PL(ABS) bull-PL(ABS)
   ## dem_pro.h:ncs_poss v:pred ln_num np:p rn_np rn_np
   k’erq-ar fjir
   calf-PL(ABS) what-PL(ABS)
   rn_np rn
   ‘He had one herd, cattle, bulls, calves, whatever.’
   [mc_tabasaran_horse_0146]

An alternative pattern where the possessor receives one of two spatial cases (APUD or POST) and the possessum the absolutive also occurs with marginal frequency; these cases are annotated the same manner as the more common case noted above.

1.1.3 Verbs of speech

Verbs of speech in Tabasaran are generally transitive, that is, they assign ergative case to the NP expressing the speaker. They are very commonly used to introduce direct speech, and only infre-
quently occur with nominal objects. As is standard practice in GRAID, direct speech complements are not formally analyzed as a ⟨:p⟩ arguments of the clauses that introduce them, but merely receive the tag ⟨#ds⟩ ‘direct speech’ (as per Haig & Schnell 2014:26). As a consequence, in some Multi-CAST corpora (notably Northern Kurdish, among others), the subjects of morphologically transitive verbs of speech have been annotated as cases of S.

In the Tabasaran corpus, we have extended the morphological definition of A arguments to verbs of speech, even when they are not paired with a P argument in the annotations. To denote their special status, the subjects of these verbs have been annotated ⟨:a_ds⟩ ‘subject of a transitive verb of speech’ as in the examples below.

(6)  
hamu jic’ub niziq’aq:i k’uru muvu.

ha-mu  jic’u-b  niziq’  aqi-i
dem-prox(abs)  ten-ns  skin(abs)  (pl)bring(imp)

k’uru  muvu
say.fut  prox(erg)

‘He said: Bring (me) these ten skins.’

(7)  
sarun gbn.imuʁaz dupna a’χirma,...

sarun  gbn.i  muɔraz  dup-na  a’χir  =ra
prt  cowboy(erg)  prox-dat  pfv-say-res  finally  =add

‘Finally the cowboy told him,...’

1.2 Complex predicates

Complex predicates (CPs) combine a semantically weak light verb (or “vector verb”) such as do, be, or become with a some kind of non-verbal element, the latter of which supplies most of the semantic content to the expression. Crucially, the non-verbal element syntactically behaves like a regular object if nominal (Bogomolova 2021), but is only interpreted and annotated as such (i.e. ⟨:p⟩) if it is unambiguously referential. In all other cases, including where the complement is not nominal, it instead receives the special function gloss ⟨:lvc⟩ ‘light verb complement’, which marks it out as a special type of expression. In this case, it also invariably receives the form gloss ⟨other⟩ as its lexical category cannot always be ascertained. For ease of identification, the subjects of complex predicates further receive the specifier ⟨_cp⟩.

The complement and light verb contribute jointly to the argument structure of the entire expression (cf. Butt 2010). In most cases, the case marking of the subject is determined by the light verb: If the light verb is transitive, the subject of the complex predicate is ergative as in (8) and (9); if intransitive, it is absolutive as in (10). Lastly, there are a number of CPs derived from unaccusative intransitive constructions (Bogomolova 2021), in which the dative-marked argument has been re-analyzed as the subject of the clause, as in (11).
1.3 Structurally and pragmatically suppressed arguments

In GRAID, unexpressed clausal referents (0) are annotated only where they are

1. licensed by the predicate,
2. specific and retrievable from the discourse context, and
3. not in an argument slot that is systematically suppressed by the predicate.

The third criterion assumes that it is possible to distinguish two types of referential null argument: those that are structurally licensed, but remain empty due to context-specific pragmatic factors, and those that are either systematically suppressed or not licensed due to purely structural factors. As a general rule, GRAID glosses only the former kind of argument with (0), because only in this case do speakers exercise any choice of expression; the latter remains unannotated.

This distinction has proven difficult to maintain in the annotation of a number of languages, including Tabasaran and Sanzhi Dargwa, where it is particularly contentious in the context of certain non-finite verb forms such as converbs and participles, and with imperatives and certain types of complement clauses. Furthermore, not capturing arguments that fail to meet the third criterion, such as the gapped constituents in relative clauses, leads to conceptual issues regarding the implicitness of discourse.
It is for this reason that we have decided to introduce a form gloss \((f0)\) ‘forced zero’ to capture categorically suppressed referents, as a counterpart to contrastively suppressed zero \((0)\). It should be noted that \((f0)\) is not a type of \((0)\), so the two categories should never be conflated during analysis. In the current version of Multi-CAST, the \((f0)\) symbol is used only in a subset of Multi-CAST corpora; it is planned to become an optional gloss in the standard GRAID specification in the future.

In Tabasaran, the \((f0)\) symbol is primarily applied to gaps in relative clauses, which are discussed in Section 1.3.1, and to the subjects of infinitival clauses, discussed in Section 1.3.3. Issues with non-finite constructions and related issues are addressed in Section 1.3.2, imperatives in Section 1.3.4.

### 1.3.1 Gapped constituents in relative clauses

Relative clauses in Tabasaran are pre-nominal, and generally contain some non-finite (or less finite) form of a verb. The head noun is obligatorily gapped in the relative clause; there are no resumptive pronouns. Where in standard GRAID the gap would remain unannotated, in the Tabasaran corpus (and a number of other corpora) they receive the form gloss \((f0)\) with an additional specifier \((rel_\_\) to mark out the context in which they occur. This practice will in the future be adopted into the standard GRAID specification.

(12) \(\text{nada}<b>\text{nu} \text{hamu} \text{jicara} \text{qa}<v>\text{raji} \text{t'ulra}, \ldots\)

\(\text{nada}<b>\text{n-u}
\text{<NSG>take-PCVB}
\#cv 0.h:a_cv v:pred
\text{ha-mu}
\text{EMPH-PROX(ATTR)}
\text{0.h:a_pc ln_dem np:p =other}
\text{q-a<v>-ra-ji
\text{<NSG>POST-lead-PRS-PTCP}
\text{v:pred}
\text{t'ul =ra}
\text{<NSG>stick(ABS)} =ADD
\text{v:pred rel_f0:obl % np:p =other}
\)

‘Taking the stick which he used to drive the oxen,…’

### 1.3.2 Subordinate verb forms

Tabasaran has a number of verb forms that lack some of the features exhibited by normal finite verbs, such as the full range of TAM marking and agreement morphology. They may also possess certain nominal properties like case marking. These verb forms include converbs, participles, infinitives, and the masdar. But although they may appear morphologically deficient in some ways, distributionally they are often very similar to finite verbs, and appear to govern arguments in an identical manner.

For the GRAID annotations, this means that when one of these “less finite” verb forms governs a referential argument, but that argument is not overtly present, it is difficult to decide whether its absence is caused by the structural inability of the verb to license the argument, or by contextual factors. It is for this reason that we have decided to assume a somewhat non-committal stance in the treatment of these verbs.

Firstly, with the exception of the subjects of infinitival clauses (Section 1.3.3), omitted arguments are annotated as \((0)\) ‘contrastively suppressed’ rather than \((f0)\) ‘structurally suppressed’, and the head of the verbal complex as regular \((v)\) rather than \((v\_other)\) ‘non-canonical verb form’. Secondly, a series of specifiers are applied to the GRAID function glosses of the subject, allowing these contentious forms to be readily distinguished: \(_{-}\text{cv}\) for converb clauses, \(_{-}\text{pc}\) for parti-
cipial clauses, and ⟨_in⟩ for infinitival clauses. The masdar is exceedingly rare in the annotated texts, and so is not labelled. Lastly, the same three symbols ⟨cv⟩, ⟨pc⟩, and ⟨in⟩ are added to the clause boundary marker ⟨#⟩. While to a degree redundant with the function specifiers, these tags allow for easier identification of clauses of particular types.

The following examples illustrate the annotation patterns, (13) for converb clauses, (14) for participle clauses, and (15) for infinitive and subjunctive clauses. See also Section 1.7 for how these extra specifiers are ordered relative to the base GRAID symbols.

(13) *hamrar.ixahergrǐ mūvu čaž sab čal ʒibru.*

<table>
<thead>
<tr>
<th>ha-m-rar.i-x-a</th>
<th>hergrǐ</th>
<th>mūvu</th>
<th>čaž</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMPH-PROX-PL-APUD-ELAT</td>
<td>ask:ICVB</td>
<td>PROX(ERG)</td>
<td>REFL.SG-DAT</td>
</tr>
<tr>
<td>sa-b</td>
<td>čal</td>
<td>ʒib-ru</td>
<td></td>
</tr>
<tr>
<td>one-NSG</td>
<td>house(ABS)</td>
<td>put-FUT</td>
<td></td>
</tr>
<tr>
<td>ln_num</td>
<td>np:p</td>
<td>v:pred</td>
<td></td>
</tr>
</tbody>
</table>

‘Asking them [for help], (Nuradin) built a house for himself.’

[mc_tabasaran_nuradin_0018]

(14) *bačan hamu la’χn.ika χabar abxir diš šulu sa’rac’an.ʒiž.*

<table>
<thead>
<tr>
<th>bačan</th>
<th>ha-mu</th>
<th>la’χn.i-k-a</th>
<th>χabar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachan(ABS)</td>
<td>EMPH-PROX(ABS)</td>
<td>WORK-CONT-ELAT</td>
<td>news(ABS)</td>
</tr>
<tr>
<td>a-b-x-i-r</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFV-NSG-become-PTCP-HSG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v:pred</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>diš</th>
<th>šul-u</th>
<th>sa’rac’an.ʒiž</th>
</tr>
</thead>
<tbody>
<tr>
<td>quick</td>
<td>become-FUT</td>
<td>Qaratsan-DAT</td>
</tr>
<tr>
<td>% 0.h:s</td>
<td>other</td>
<td>v:pred</td>
</tr>
</tbody>
</table>

| ln_np:DAT |
| np_np:g |

‘Having learnt of these happenings, Bachan rushes to Qaratsan.’

[mc_tabasaran_belt_0025]

(15) *qa murar.in již źivru pačih.ʒi sumčir ap’uz, čan šubar.in.*

<table>
<thead>
<tr>
<th>qa</th>
<th>mu-rar.i-n</th>
<th>již</th>
<th>źiv-ru</th>
<th>pačih.ʒi</th>
</tr>
</thead>
<tbody>
<tr>
<td>then</td>
<td>PROX-PL-GEN</td>
<td>day(ABS)</td>
<td>put-FUT</td>
<td>king(ERG)</td>
</tr>
<tr>
<td>#</td>
<td>other</td>
<td>ln_dem_pro.h:poss</td>
<td>np:p</td>
<td>v:pred</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>sumčir</th>
<th>ap’uz</th>
<th>ča-n</th>
<th>šubar.i-n</th>
</tr>
</thead>
<tbody>
<tr>
<td>wedding(ABS)</td>
<td>do-INF</td>
<td>REFL.SG-GEN</td>
<td>girl+PL-GEN</td>
</tr>
<tr>
<td>np:p</td>
<td>vother:pred</td>
<td>rn_refl.h:poss</td>
<td>rn_np.h:poss</td>
</tr>
</tbody>
</table>

‘The king set a day to hold the weddings of his daughters.’

[mc_tabasaran_horse_0120]

A last point of contention concerns syntactic hierarchization. Especially with converb clauses, which are highly frequent and often appear in long chains, it can be difficult to determine exactly which independent clause, if any, they are subordinated to. The Tabasaran annotations thus implement a slight relaxation of the definition of the two left-edge clause boundary markers in GRAID: while ⟨##⟩ is still defined as the beginning of a fully independent syntactic unit, ⟨#⟩ is not used specifically for identifiably subordinated units, but for all clauses that do not meet the
criteria for being glossed ⟨###⟩. In the Tabasaran corpus, then, ⟨#⟩-clauses can freely occur outside of the boundaries of a matrix ⟨###⟩-clause. While this change could cause issues for analyses that rely on the precise syntactic hierarchization of clause units (for which GRAID was not designed, it should be noted), we believe the benefits of this approach outweigh its disadvantages.

### 1.3.3 Infinitival complement clauses

The subjects of infinitival clauses are structurally suppressed, and are hence annotated ⟨f0⟩:

(16) vallah k’ur, hamci k’ur sardaš.

<table>
<thead>
<tr>
<th>vallah</th>
<th>k’ur</th>
<th>hamci</th>
<th>k’ur</th>
<th>sardaš</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERJ</td>
<td>CIT</td>
<td>EMPH-PROX-ADV</td>
<td>CIT</td>
<td>brother(ABS)</td>
</tr>
<tr>
<td>other</td>
<td>other</td>
<td>ln</td>
<td>other</td>
<td>np.h:s #ds_ac_in</td>
</tr>
<tr>
<td>liχu-z</td>
<td>v-uš-nu</td>
<td>PFV&lt;HSG&gt;go-AOR</td>
<td>%</td>
<td>v:pred</td>
</tr>
</tbody>
</table>

‘[He said,] Oh, my brother has gone off to work.’

(17) qa a’χu’ čuč:uz a’u’z k:un šulu.

<table>
<thead>
<tr>
<th>qa</th>
<th>a’χu’</th>
<th>čuč:uz</th>
<th>a’u’z</th>
<th>k:un</th>
</tr>
</thead>
<tbody>
<tr>
<td>then</td>
<td>big</td>
<td>brother-DAT</td>
<td>(HSG)go-INF</td>
<td>want</td>
</tr>
<tr>
<td>##</td>
<td>other</td>
<td>ln_adj</td>
<td>np.h:ncs_cp</td>
<td>#cc_in</td>
</tr>
<tr>
<td>šul-u</td>
<td>become-fut</td>
<td>v:pred</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‘Then the big brother wanted to go.’

### 1.3.4 Imperatives

While the subjects of imperatives are almost always left unexpressed, they are in fact not categorically suppressed. For this reason, like the subjects of subordinate verb forms discussed in Section 1.3.2, they are annotated ⟨0⟩ rather than ⟨f0⟩:

(18) uvu fu dap’naš jip k’ur!

<table>
<thead>
<tr>
<th>uvu</th>
<th>fu</th>
<th>d-ap’-na-š</th>
<th>jip</th>
<th>k’ur</th>
</tr>
</thead>
<tbody>
<tr>
<td>you.SG(ERG)</td>
<td>what</td>
<td>PFV-do-RES-COND</td>
<td>say(IMP)</td>
<td>CIT</td>
</tr>
<tr>
<td>#ds</td>
<td>pro.2:a</td>
<td>#cc:p 0.2:a</td>
<td>intrg_other:p</td>
<td>v:pred</td>
</tr>
</tbody>
</table>

‘Say what you have done!’

### 1.4 Verbal cross-indices

In addition to the gender-based agreement system, in which absolutive-marked arguments are generally the controllers, Tabasaran also has a second layer of indexing (Bogomolova 2018), presumably an innovation. In this system, the controllers are first and second person arguments only. We have adopted a conservative (possibly redundant) system of glossing which is sufficiently explicit to allow recognition of the relevant items.
The basic outline of the system is as follows: First or second person core arguments, including the dative-marked subjects discussed in Section 1.1.1 above, are indexed via a clitic on the verb. This applies to both transitive and intransitive predicates, but is limited to finite verb forms in matrix clauses, hence the lack of indexing on the imperative verb in (24). With subjects, the clitics are obligatory; with other arguments they may be optionally present as in (19), (22), and (23).

(19)  

\[
\text{uzu saban jiz uzu pačːih vəp'untu} \ k'ur, \ q\text{a jiz χpːir.i vəp'untu} \ k'ur, \ q\text{a jiz χpːir.in daši.ji} \\
\text{vəp'untu} \ k'ur. \\
\]

##ds

\[
\begin{align*}
\text{uzu} & \quad \text{saban} & \quad \text{jiz} & \quad \text{uzu} & \quad \text{pačːih} & \quad \text{vəp'untu} & \quad =\text{za} & \quad \text{k'ur} \\
& \quad \text{i(ERG)} & \quad \text{first} & \quad \text{my} & \quad \text{i(ABS)} & \quad \text{king(ABS)} & \quad \text{PFV}-\text{do-PST} & \quad \text{=1SG:AG} & \quad \text{CIT} \\
\end{align*}
\]

##ds pro.1:a other ln refl.1:p np.h:obl v:pred =rv-pro_1_a other

\[
\begin{align*}
\text{qa} & \quad \text{jiz} & \quad \text{χpːir.i} & \quad \text{vəp'untu} & \quad =\text{zu} \\
\end{align*}
\]

##ds other ln_pro.1:poss np.h:a 0.1:p 0.h:obl v:pred =rv-pro_1_p

\[
\begin{align*}
\text{qa} & \quad \text{jiz} & \quad \text{χpːir.i-n} & \quad \text{daši.ji} & \quad \text{vəp'untu} \\
\end{align*}
\]

##ds other ln_pro.1:poss ln_np.h:poss np.h:a 0.1:p 0.h:obl v:pred =rv-pro_1_p

\[
\begin{align*}
\text{uzu} & \quad \text{k'ur} \\
& \quad \text{=1SG:PAT} & \quad \text{CIT} \\
=rv-pro_1_p \text{ other} \\
\end{align*}
\]

‘[He said,] First, I made myself the king, then my wife made me the king, then my wife’s father made me the king.’  

[mc_tabasaran_horse_0203]

(20)  

\[
\text{sarun, uzu uvu a'jda}zuz, uvuzra uzu a'jda}r uzuz, fsʲo. \\
\]

##ds neg

\[
\begin{align*}
\text{sarun} & \quad \text{uzu-z} & \quad \text{uvu} & \quad \text{a'j-d}a \\
\text{PRT} & \quad \text{other} & \quad \text{you} & \quad \text{know-(PRS)} & \quad \text{=1SG-DAT} \\
\end{align*}
\]

##ds neg

\[
\begin{align*}
\text{uzu-z} & \quad \text{=ra} & \quad \text{uzu} & \quad \text{a'j-d}a & \quad \text{=u-z} & \quad \text{fsʲo} \\
\end{align*}
\]

2SG-DAT =ADD 1 know-(PRS) =2SG-DAT that’s it

\[
\begin{align*}
\text{pro.2:nsc} & =\text{other pro.1:p v:pred} & \quad \text{=rv-pro_2_nsc} & \quad \text{other} \\
\end{align*}
\]

‘Fine, you don’t know me, I don’t know you, that’s it.’  

[mc_tabasaran_belt_0028]

(21)  

\[
\text{umu uzu}zna bə-b-χni}jiš \ k'ur, uzu \ χu}jka k'ur. \\
\]

##ds #ds_ac

\[
\begin{align*}
\text{umu} & \quad \text{uzu-x-na} & \quad \text{bə-a-b-χ-ni}jiš & \quad \text{k'ur} \\
\end{align*}
\]

##ds

\[
\begin{align*}
\text{you.sg(ABS)} & \quad \text{i-APUD-LAT} & \quad \text{PFV}<\text{NSG>bring-PFV-PST-COND} & \quad \text{CIT} \\
\end{align*}
\]

\[
\begin{align*}
\text{uzu} & \quad \text{yu}j & \quad =\text{za} & \quad \text{k'ur} \\
\text{i(ABS)} & \quad \text{bring-PST-COND} & \quad \text{=1SG:AG} & \quad \text{CIT} \\
\end{align*}
\]

\[
\begin{align*}
\text{pro.1:a} & \quad 0:p & \quad 0.2:g & \quad \text{v:pred} & \quad \text{=rv-pro_1_a other} \\
\end{align*}
\]

‘[She said,] If you had brought something for me, I would bring out (something for you).’  

[mc_tabasaran_naz_0047]

(22)  

\[
\text{qa la'yin uzu tuvur}zavuz \ k'ur, ... \\
\]

##ds

\[
\begin{align*}
\text{qa} & \quad \text{la'yin} & \quad \text{uzu} & \quad \text{tuv}ur & \quad =\text{za} & \quad \text{=vu-z} & \quad \text{k'ur} \\
\end{align*}
\]

##ds other np:p pro.1:a 0.2:g v:pred =rv-pro_1_a =rv-pro_2_g other

‘[He said,] I will give you a job,…’  

[mc_tabasaran_work_0033]
1.5 Third person pronominal forms

Like Sanzhi Dargwa, Tabasaran does not have a separate paradigm of third person personal pronouns; their role is filled by an extensive set of demonstrative pronouns. Only first and second person pronouns receive the form gloss ⟨pro⟩; third person pronouns and other demonstrative forms are glossed ⟨dem_pro⟩ instead.

(25)  *ap’uru muvu čaz sab uʒub χalla.*

    *ap’-uru muvu ča-z sa-b uʒu-b χal =la*
    do-FUT PROX(ERG) REFL(NSG)-DAT one-NSG good-NSG house(ABS) =ADD
    ## v:pred dem_pro:.h: a refl.h:obl ln_num ln_adj np:p =other

‘He built a good house for himself.’

[mc_tabasaran_nuradin_0015]

(26)  *uzu uxuz la’χin a<–b>gurza k’ur.*

    *uzu uxux-z la’χin a<–b>g-ur =za k’ur*
    l we(INCL)-DAT work(ABS) <NSG>search-FUT =1SG:AG CIT
    ##ds pro.1:a pro.1:obl np:p v:pred =rv-pro_1_a other

‘[He said,] I will find a job for us.’

[mc_tabasaran_work_0021]

1.6 Verbs of speech used as quotatives

In Tabasaran, the verb *k’ur* ‘say.FUT’ is very frequently used in lieu of a quotative, often interspersed throughout quoted material as in (27). In this use, it always occurs without an overt subject and any clausal modifiers. So as to not inflate the number of embedded clauses in the corpus, it has been glossed it as CIT ‘quotative’ and annotated simply as ⟨other⟩ rather than as the predicate of a clause where it occurs on its own alongside direct speech.
On the relative order of additional symbols

The GRAID annotations for Tabasaran make use of a number of additional symbols for complex predicates (Section 1.2) and subordinate verb forms (Section 1.3.2) that attach to function glosses and clause boundary markers. While they are not by themselves particularly numerous, some complexity arises from their combination with other symbols that occupy the same space.

A maximally complex example from the Tabasaran texts might be the subject of a complex predicate of speech in converb form, which would receive the function gloss \langle :s_ds_cp_cv \rangle, and in the direct speech that might follow, a negated complement clause with an infinitival predicate in P role would have \langle #ds_cc_in.neg:p \rangle as its clause boundary marker. While these are, thankfully, the worst case scenarios, they are not uncommon occurrences.

In order to avoid confusion, these symbols combine in a strictly defined order. As a general rule, symbols that are not part of the base GRAID inventory always attach after (or rather, ‘outside of’) those that are; in the Tabasaran annotations, additional specifiers on function glosses (of subjects, mostly) are always added in the following order:

1. base function symbol: e.g. \langle :s \rangle, \langle :a \rangle, \langle :ncs \rangle
2. subject of direct speech: \langle _ds \rangle, or
   subject of verbal expression of possession: \langle _poss \rangle
3. subject of complex predicate: \langle _cp \rangle
4. clause type (converb, participle, infinitive): \langle _cv \rangle, \langle _pc \rangle, \langle _in \rangle

The various clause boundary tags likewise combine as follows (an extension of Haig & Schnell 2014: 25, Tab. 6); the first element to follow after the boundary marker \langle # \rangle has no delimiter (\langle _ \rangle or \langle . \rangle):

1. boundary marker: \langle # \rangle or \langle ## \rangle
2. direct speech clause: \langle ds \rangle
3. clause type (complement, adverbial, relative): \langle _cc \rangle, \langle _ac \rangle, \langle _rc \rangle
4. clause type (converb, participle, infinitive): \langle _cv \rangle, \langle _pc \rangle, \langle _in \rangle
5. negated: \langle .neg \rangle
6. function: e.g. \langle :s \rangle, \langle :a \rangle, \langle :p \rangle, etc.
2 Notes on the RefIND annotations

2.1 Referents in clauses otherwise not considered

Segments that have not been annotated for whatever reason, be that because they are incomplete or not syntactically well-formed, or because they are taken out of the normal flow of narration (e.g. because they address the listener, directly reply to the interviewer’s questions, or are not produced by the primary speaker), are marked as ⟨#nc⟩ ‘not considered’, and all of the elements they contain are glossed ⟨nc⟩.

However, these segments may still contain identifiable discourse references, which are presumably registered by the listener even in cases where the clause in question is abandoned partway through. So as to preserve the genuine sequence of references in the annotations, mentions in ⟨#nc⟩ segments are indexed with RefIND, even though they do not receive meaningful GRAID annotations. This is true of all Multi-CAST corpora with RefIND.

For the Tabasaran corpus, however, we have attempted to go one step further by adding form and person/animacy glosses back onto those ⟨nc⟩ elements that have referent indices. The glosses are added as specifiers to the righthand side of the ⟨nc⟩ symbol, yielding, for instance, ⟨nc_np⟩ or ⟨nc_pro.h⟩. Grammatical functions are not glossed.

(28)  

a. hamus ša’jban uduč’iš…

hamus ša’jban uduč’-iš
now Shaban(ABS) <HSG>go_out-COND
#nc nc nc_pn_np.nc0008

‘If Shaban goes out…’

b. hamu čan χanuk.rin?

ha-mu ča-n χanuk.ri-n
EMPH-PROX(ABS) REFL-GEN friend-GEN
#nc nc_dem_pro.h nc_refl.h nc_np.h

‘[Someone in the audience asks,] To his friend?’

This approach makes it clear that while some information can be gleaned from these elements, one should not rely on being able to retrieve full information from the rest of the ⟨#nc⟩ segment. For most types of analysis, the ⟨nc⟩ glosses should not be conflated with related GRAID symbols.
References


Appendices

A List of corpus-specific GRAID symbols

The following is a list of the non-standard GRAID symbols used in the annotation of the Multi-CAST Tabasaran corpus. Please refer to the GRAID manual (Haig & Schnell 2014: 54–55) for an inventory of basic GRAID symbols.

Form symbols and specifiers

(f₀) structurally suppressed argument slot of a predicate
(rel_f₀) gapped argument of a relative clause
(dem_pro) demonstrative pronoun
(pn_np) proper name
(intrg_other) interrogative pronoun
(indef_other) indefinite pronoun

Function symbols and specifiers

(:lvc) non-verbal complement of a complex predicate
(_ds) specifier: subject of a verb of speech; attaches to ⟨:s⟩, ⟨:a⟩, and ⟨:ncs⟩
(_cp) specifier: subject of a complex predicate
(_cv) specifier: subject of a converb clause
(_pc) specifier: subject of a participial clause
(_in) specifier: subject of an infinitival clause
(_poss) specifier: subject of a verbal expression of possession; attaches to ⟨:ncs⟩

Clause boundary symbols

⟨cv⟩, ⟨_cv⟩ tag: converb clause
⟨pc⟩, ⟨_pc⟩ tag: participial clause
⟨in⟩, ⟨_in⟩ tag: infinitival clause

Subconstituent symbols

(_adj) adjectival modifier; attaches to ⟨ln⟩ and ⟨rn⟩
(_dem) demonstrative determiner; attaches to ⟨ln⟩ and ⟨rn⟩
(_num) numeral modifier; attaches to ⟨ln⟩ and ⟨rn⟩
(_aux) auxiliary; attaches to ⟨lv⟩ and ⟨rv⟩

Other symbols

⟨nc_⟩ specifier: marks form glosses with RefIND indices in segments otherwise not considered (i.e. those marked ⟨#nc⟩)
## B List of abbreviated morphological glosses

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<th>Example</th>
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<td>second person</td>
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<td>spatial case ‘by, near’</td>
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<td>ATTR</td>
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<td></td>
</tr>
<tr>
<td>CIT</td>
<td>verb <em>k’ur</em> ‘say’ used as a quotative</td>
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