

GFSS2017

project, plan B:

Almost completed the
Basque resource grammar
(It was secretly plan A all along...)

History

“Basque is cool!

We should write a GF resource grammar for it!”

-- IL & FT in late 2014

Standard Basque

a progressive grammar

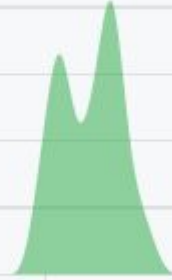
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History: 2015



History: 2016

RBMTSS in Alicante,
native help from Olatz



History: 2017



Present

20 functions missing from the RGL API

Added to the GF [GitHub!](#)

```
1  resource MissingEus = open GrammarEus, Prelude in {
2
3  -- temporary definitions to enable the compilation of RGL API
4  oper AddAdvQVP : QVP → IAdv → QVP = notYet "AddAdvQVP" ;
5  oper AdnCAAdv : CAdv → AdN = notYet "AdnCAAdv" ;
6  oper AdvQVP : VP → IAdv → QVP = notYet "AdvQVP" ;
7  oper CleftAdv : Adv → S → Cl = notYet "CleftAdv" ;
8  oper CleftNP : NP → RS → Cl = notYet "CleftNP" ;
9  oper ComparAdvAdjS : CAdv → A → S → Adv = notYet "ComparAdvAdjS" ;
10 oper ComplSlashIP : VPSlash → IP → QVP = notYet "ComplSlashIP" ;
11 oper ExistIP : IP → QCl = notYet "ExistIP" ;
12 oper ExistIPAdv : IP → Adv → QCl = notYet "ExistIPAdv" ;
13 oper ExistNP : NP → Cl = notYet "ExistNP" ;
14 oper ExistNPAdv : NP → Adv → Cl = notYet "ExistNPAdv" ;
15 oper GenericCl : VP → Cl = notYet "GenericCl" ;
16 oper ImpP3 : NP → VP → Utt = notYet "ImpP3" ;
17 oper ImpersCl : VP → Cl = notYet "ImpersCl" ;
18 oper QuestQVP : IP → QVP → QCl = notYet "QuestQVP" ;
19 oper SelfAdvVP : VP → VP = notYet "SelfAdvVP" ;
20 oper SelfAdvVP : VP → VP = notYet "SelfAdvVP" ;
21 oper SelfNP : NP → NP = notYet "SelfNP" ;
22 oper SlashPrep : Cl → Prep → ClSlash = notYet "SlashPrep" ;
23 oper SlashVS : NP → VS → SSlash → ClSlash = notYet "SlashVS" ;
24 }
25
```

TODO: Morphology

Missing the whole conditional tense

Most irregular verbs somewhat incomplete

The ones that are complete, have some problems in relative clauses

[grep TODO *.gf](#)

TODO: Syntax

Complete the missing functions

Test all the functions

More general TODO: create methods for testing RGL

Random observations: Subtyping is nice

Shared structure among similar types: VPSlash and ClSlash

```
355 VPSlash : Type = --VPSlashPrep may specify a postposition to use (for adv slot)
356   VerbPhrase ** { post : Postposizio ;
357   | | | | | | | | | | missing : MissingArg } ;
358
```

```
562 -- ClSlash: has verb and subject, missing object
563 ClSlash : Type = VerbPhrase ** { subj : {s : Case => Str ; agr : Agr } } ;
564
```

Functions can be reused:

```
25
26 -- : VP -> Adv -> VP ; -- sleep here
27 AdvVP vp adv = ResEus.insertAdv adv vp ;
28
29 -- : ClSlash -> Adv -> ClSlash ; -- (whom) he sees today
30 AdvSlash cls adv = cls ** insertAdv adv cls ;
31
```


Application: formalise this table

https://upload.wikimedia.org/wikipedia/commons/3/36/Nor_Nori_Nork_taula_osa.png

	NOR	NOR—NORI	NOR—NORK	NOR—NORI—NORK	
INDIKATIBOAN	miniz	NA tzaiz	I	NA u	I
	huaz	HA tzaiz	I	HA u	I
	tu	tu	O	O	O
	tu	GA tzaiz	GU	GA u	GU
	tu	ZA tzaiz	ZU	ZA u	ZU
LEHEN	miniz	NIN tzaiz	ANA n	NIN du	DA n
	miniz	HIN tzaiz	ANA n	HIN du	ANA n
	miniz	ZIN tzaiz	ZU n	ZIN du	ZU n
	miniz	GIN tzaiz	GU n	GIN du	GU n
	miniz	ZIN tzaiz	ZU n	ZIN du	ZU n
BALDINTZAKOAN	miniz	NA tzaiz	I	NA u	I
	miniz	HA tzaiz	I	HA u	I
	miniz	GA tzaiz	GU	GA u	GU
	miniz	ZA tzaiz	ZU	ZA u	ZU
	miniz	DA tzaiz	E	DA u	E
SUBDINTIBOAN	miniz	NIN tzaiz	ANA n	NIN du	DA n
	miniz	HIN tzaiz	ANA n	HIN du	ANA n
	miniz	ZIN tzaiz	ZU n	ZIN du	ZU n
	miniz	GIN tzaiz	GU n	GIN du	GU n
	miniz	ZIN tzaiz	ZU n	ZIN du	ZU n
INPRATE	U	U		U	U
	U	HA ki	K/N	HA u	K/N
	U	BE ki	O	BE u	O
	U	GA ki	GU	GA u	GU
	U	ZA ki	ZU	ZA u	ZU

Eskerrik
asko!