

Overview

- Progress on Portuguese
- Code Extracts
- Demos and Results

Progress on Portuguese

- completed morphology for nouns, verbs and adjectives (improved smart paradigms)
- adjectivation is the most complex syntactic rule so far
- extended lexicon
- determination not completely finished

Some numbers

- 70 nouns in LexiconPor
- 60 of them are built given one form of the noun
- 20 verbs
- 16 adjectives

Nouns

- two smart paradigms for nouns
- first one accounts for the typical cases
- second does not try to decide on gender
- the order of patterns influences performance (maybe not so important)

smartNoun : Str -> Noun

notSoSmartNoun : Str -> Gender -> Noun

Nouns (cont.)

- alem<u>**ão**</u> (Sg) => alem<u>**ães**</u> (PI)
- coraç**ão** (Sg) => coraç**ões** (Pl)
- smart paradigm can only account for one case
- what to do if the user wants to extend the lexicon?

Repeated code?

Romance Functor

- o polícia || a polícia => Gender parameter has to account for this case
 CN = (s : Number => Str ; g : Gender);
- difficult to integrate (a lot of linguistics concepts I don't know)
- common library seems to be useful, allows the reuse of code

Future Work

- complete morphology by the end of the year
- study some linguistics in order to implement more complex syntactic rules
- make use of GF in a relatively big case-study (proven to be very useful when we are dealing with specific domains)
- translating between program specification languages (seen as software contracts)



