

ment style, a form of social conditioning and the negative politeness culture of dominating social groups. Göran Kjellmer's succinct study of resolving ambiguity induced by the polysemy of *recent* points to five possible strategies used by addressees, involving semantic, grammatical, pragmatic and contextual factors. Ute Römer takes an applied perspective, as her aim is for corpus linguistics to contribute to a greater degree of authenticity of the English used in teaching contexts. Based on the example of *looking*, she shows that German textbooks of English inconsistently either under- or overrepresent the amount of contracted progressive forms as well as the instances of *looking* followed by *at* and *for*, and completely neglect the functions of expressing repeated actions and general validity. Gabriel Ozón uses two parameters to approach the variation between the double object construction and the NP-PP complementation with ditransitive verbs, namely medium (written vs. spoken English) and information structure. While medium does not influence the choice of construction at all, the 'given before new' information hypothesis is not fully supported by the data and needs to be supplemented by other factors, such as the concept of focal information. The last paper in the synchronic section continues the emphasis on spoken English noticeable in Deutschmann's, Römer's and Ozón's papers. Anna-Brita Stenström's contrastive approach to the Spanish pragmatic marker *pues* and its closest English equivalents shares with Römer's paper a potentially applied perspective, though this is not made explicit here. Stenström finds that *pues* shares four functions with English *cos* and eight with *well*, but also corresponds sometimes to *therefore*, *okay*, *yeah* and even zero. Michaela Mahlberg's paper revolves around the high-frequency noun *time*, whose 'investing time' pattern she investigates with the help of Hunston and Francis' Pattern Grammar approach. In the process she shows how the pattern approach might be improved by taking lexical items as reference points in order to add detail to the description and to enable a better grouping of patterns.

It is impossible to do justice to individual papers within such a large and varied collection in the space of a brief review. I have therefore tried to highlight the developments in methodology and their reflection within the field as perhaps the most important aspect of this collection. Beyond this, the volume attests to the richness of corpus linguistics, and its ability to incorporate and benefit from research questions from diverse fields.

Reference

Leech, Geoffrey N. 1966. *English in advertising: A linguistic study of advertising in Great Britain*. London: Longman.

Shorter notice

A tagging tool for error analysis on learner corpora

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1 Introduction

A decade of research on errors as contained in learner corpora, usually known as Computer-aided Error Analysis (CEA), has proved not just that increasing attention is being paid to the field (Leech 1997: 15; Dagneaux et al. 1998: 163 et passim; Granger 2003b: 542; Tono 2003: 804–805), but also shown what elements are basic for this purpose: a learner corpus and an error tagset for annotation of errors in the corpus (cf. Granger 1999; Tono 2000).

Interestingly, while a good number of corpora of learners of different target languages and of diverse L1 backgrounds have been collected or are still under collection since the early 90s, tools for annotation of learner corpora seem to be scarce. It also seems that, unlike tools for morphological, syntactic or semantic annotation in corpus linguistics research, the error tagging systems that exist have in general not accomplished stages of public availability (see for instance Milton and Chowdhury 1994; Weinberger 2002; Granger 2003a; Nicholls 2003; Fitzpatrick and Seegmiller 2004; Izumi et al. 2004; cf., however, Hutchinson 1996).

Funded by the Andalusian Regional Council (*Consejería de Educación y Ciencia de la Junta de Andalucía*, Spain), a four-year project based in the English Department of the University of Jaén was launched in 2003 for research on error annotation of learner corpora, specifically on an error tagging system for use on English written material by Spanish learners. The system consists of an error taxonomy and software tools derived from the former.

2 The error taxonomy

The taxonomy provides a language-specific, fine-grained classification of errors building on existing error tagsets which, as the one at Louvain-la-Neuve (Hutchinson 1996; also, Dagneaux et al. 1998) or the one used on the Cambridge Learner Corpus (Nicholls 2003), are intended for a range of languages and may not cover a number of possibilities in the diagnosis of errors specific to language learners of particular L1 backgrounds.

The tagging system is aimed at detail of error description and specificity to use on English written material by Spanish learners. Based on the assumption that "[...] the more refined the tagset the more refined the analysis" (Meunier 1998: 20, re POS taggers), use of detailed error tagging tools is also expected to provide fine-grained analysis of error-tagged data. Descriptive detail is reached in this taxonomy by the incorporation of several sets of information in tags, consisting of:

- identification of the units under description. Alongside error information, the unit where the error is found is identified in the tag with, for example, a punctuation mark for punctuation errors, POS information for grammatical and lexical errors, syntactic functions for syntactic errors, etc.,
- distinction between internal and external errors under the major category of word grammar, where the former refer to errors involving flawed construction of a unit, hence inexistent, e.g. *childs, and the former to errors involving incorrect use of an existent realization or item, e.g. *everybody in the world have access to it, and
- narrow linguistic subcategorization of errors. In each of the cases, linguistic information is provided alongside a linguistic level definition (see section 3), relating surface structure modifications (omission, substitution, misordering and misselection), and/or a subcategorization of the linguistic level.

The resulting description is illustrated in Table 1:

Table 1: Error description as in the error coding system at Jaén¹

Punctuation: Full stop, End sentence, Omission	*the knowledge of a foreign will always be something useful ↓
Spelling: Word boundary, Merging / Splitting	*our weakpoint / *in bottle necks
Lexis: Self-coinage, Adjective	*not all the language are identically " cotizides "

Word Grammar: Tense, Present, External, Vcrb	*Yesterday I get up at 7:40
Clause Grammar: Negation, Assertiveness, Pronoun	*With ETA we can not make something
Discourse: Co-reference, Personal, Pronoun	*So this is a very special book who marked a generation

3 The error editor

The software tools are essentially an editor for computer-assisted insertion of tags in the error-annotation process. Tag options are arranged hierarchically on a menu-driven interface patterned on the usual software menus of word-processors; that is, users can move from general to specific levels of description throughout a chain of linguistic categories and subcategories to arrive at a suitable definition of the error in question. Unlike other taxonomies organised around grammatical errors or errors associated with the POS system, the present taxonomy comprises seven main levels of linguistic description, namely punctuation, spelling, word grammar, phrase grammar, clause grammar, lexis and discourse. Additionally, the taxonomy incorporates information about the superficial modification compared to the target version (omission, substitution, misordering and misselection), thus taking account of the two descriptive approaches recommended by Tono (2003: 804) for the construction of error taxonomies. In practice, linguistic terminal categories lead to error-type categories and the resulting selection accounts for an error description by linguistic and target modification typologies. The error and the error definition thus obtained are automatically bracketed by an opening and a closing XML tag, which at a later stage may be retrieved for CEA research with the aid of data retrieval software, for example WordSmith Tools (Scott 1996). Alongside the main function of tag insertion, the editor includes further editing functions for eventual annotation revision.

The taxonomy used for the error tagging system relies on the evidence found in a written learner 41,421-word corpus collected from 99 first-year Spanish university students doing a degree in English Studies at the University of Granada (see Table 2). At a first stage, a section of the corpus including 17,695 words from the 28 participants present in the three annual samplings (November, March and June) was selected and analysed for errors and a pilot taxonomy and tagset were built (see Table 2). This section was then annotated with a preliminary rudimentary version of the tagset so as to have a closer look at the errors

and gain insights into practical aspects involved in the process of error annotation.²

Table 2: Learner corpus data

	Participants	Samples	Number of Words
Corpus stage 1	28	84	17,695
Corpus stage 2	99	188	41,421

Following revision of the taxonomy and of the error tagset based on the preliminary annotation of the sample, at a second stage, the whole corpus of 41,421 words was analysed for a sounder version of the tool. At the moment, the tagset is being incorporated in the editor designed for assisted annotation of this corpus and of any others which may find this resource useful.

Like the taxonomy, the tagset has been made specific to Spanish learners of English, thus allowing direct access to difficulties of such a learner community during data analysis. In preliminary stages of corpus revision, a number of particular errors demonstrated a salient incidence with respect to others from one and the same category, thus calling for further categorization. Indeed, through further subcategorization, the error classification becomes more detailed but also more specific to such a learner community. This is shown in Table 3 in respect of syntactic errors:

Table 3: Syntactic errors as described at Jaén

Phrase Grammar: Postmodifier, Noun Phrase	*there are relations of business
Clause Grammar: Omission, Subject	*In the enterprises ↓ is very important too.
Clause Grammar: Misordering, Adjunct	*we just take from our pocket the mobile phone
Clause Grammar: Structure, Extraposition, Subject	*it's a good experience that you can speak with people
Clause Grammar: Structure, Adverbial	*they are the key for have a job in the future

Nevertheless, the tagset is open to modification for specific users' needs. Deletion or insertion of current and new error categories in menus is possible to allow different subcategorization of data and use by a wider research community.

4 Conclusion

Overall, the project is intended to provide a useful tool for SLA researchers and language teachers' approach to errors produced by Spanish learners of English. At present, the error annotation system is close to completion, pending:

- compiling a tagging manual,
- refinement of the tagset based on the feedback gathered from its application on the SPICLE,³ and
- dissemination of the tool.

Notes

1. Please note that there might be more than one error in the stretches of learner language provided. For clarification, the error under description is highlighted in bold and, in omission errors, ↓ is used.
2. More information about this stage of the research can be found in Diaz-Negrillo (forthcoming).
3. Spanish component of the International Corpus of Learner English.

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