The WERTI System Vanessa Metcall and Detrair Meurers	Introduction	The WERTi System Vanessa Metcalf and Detrair Meurers
Introduction Philosopical growing The WERTI system Ventoria WERTI and IT gration WERTI and IT gration WERTI and IT gration Flagmans - WERTI Example 2. Admin paramete Example 4. Admin paramete Example 4. Admin paramete Example 4. Admin paramete Example 5. Admin paramete Example 5. Admin paramete Example 6. Manip paramete Example 6. Manip paramete Example 6. Terms and Aquat Example 6. Terms and Aqu	 The use of NLP in ICALL has primarily centered on diagnosing learner errors and, more recently, testing and assessment. Idea: Explore how NLP technology can support other aspects of second language learning. Our specific focus: What can NLP contribute to awareness of language forms and rules, an important component of adult second language acquisition. (cf., e.g., Long 1991, 1996; Ellis 1994; Schmidt 1995; Lyster 1998; Lightbown and Spada 1999; Norris and Ortega 2000; Schulz 2002) 	Entroduction Printegorial growthing The WERTI system Institution MERTI system Institution I
OHIO SIATE 1/26		OHIO SIAIE 2/26
The WERTI System Vanessa Metcall and Detrair Meurers Introduction Pedagogical grounding	Pedagogical grounding of our research Conveying linguistic information	The WERTI System Vanessa Metcalf and Detract Meures Introduction Pedagogical grounding
The WERTI system introduction with This and RT practice Progression in WERTI and RT practice Progression in WERTI Example 1: Pronounce Example 2: Parties Example 2: Advante placement Example 4: Tense and Aspect Realizing proposal Ownering ex. progression Current enables.	Linguistic information can be conveyed to the learner • using explicit linguistic terminology/representations, e.g.: • parts of speech • verbal tense, mood and aspect • sentence classification • syntactic analyses (shown as trees or sentence diagrams)	The WERTI system introduction WERTI and FIT practice Progression in WERTI Example 1: Protocure Example 2: Protocure Example 2: Protocure Example 2: Adverte placement Example 2: Roter and Aspect Roalizing proposal Creating ex. progression Current status. WERTI creatoption activities
Some challenges Related approaches Language Assemess and Test Generation Exercise Authoring Tools Other approaches	 using implicit presentation, e.g. coloring, underlining, moving, etc pointing to correct or incorrect uses 	Some challenges Related approaches Language Assenses and Test Generation Exercise Authoring Tools Other approaches
T-W-E	⇒ Awareness activities can include both implicit and explicit presentation of linguistic features.	Summary References
	The WETT Typelon Standard or Demonstrated or D	The WETT System Conveying language forms and rules, an important component of adult second language acquisition.

The WERTi System The WERTi System WERTi and FLT practice The WERTi system Vanessa Metcalf and Vanessa Metcalf and Working with English Real-Texts: An Intelligent Workbook A common pedagogical practice in FLT moves from target language presentation, to practice, on to production. The WERTI system The WERTi syste ► Research in our OSU ICALL research group includes Proposal: Create sequences of linguistic awareness · TAGARELA, a project integrating an intelligent activities following the initial stages of such a progression: Example 1: Pronouns workbook into the individualized instruction of Receptive presentation Portuguese at OSU (Amaral and Meurers 2005, 2006), II. Productive presentation English Language Practice (Bailey and Meurers 2006). Realizing proposal III. Controlled practice a system exploring content matching methodologies. Creating ex. progression What makes this idea interesting? · WERTi, a web-based ESL system incorporating: NLP technology can identify certain relevant linguistic · automatic diagnosis of word order errors in written Related approaches Related approaches categories and forms in real-life texts. Language Awareness and Language Awareness an exercise input (Metcalf and Meurers 2006) Exercise Authoring Tools The contents of these texts can be selected by the Exercise Authoring Tools · automatically generated language awareness activities Other approaches Other approaches learners based on their interests. This talk focuses on the automatic generation of The sentences turned into exercises can remain fully language awareness activities, exemplified by exercises contextualized as part of the text selected by learner. targeting prepositions. Automatic feedback for the activities is feasible since the original text is known. The WERTi System The WERTi System The activity progression in WERTi Example for an activity progression Vanessa Metcalf and 1 Pronouns Using real world web-based texts (such as news articles) we provide a progression of activities: The WERTi system The WERTi sys Step 1. Receptive presentation Step 1. Receptive presentation Ex. System colors different pronoun types. Ex. The system colors examples of targeted items. (1) Someone told me that he accidentally hit himself Step 2. Productive presentation in the face with his car kevs. Ex. The learner is asked to find and mouse-click all Realizing proposal Creating ex. progression Creating ex. progressio tokens of the targeted category. The system shows Step 2. Productive presentation WEDT responsition activities WEST respection articles correct picks in green, incorrect ones in red. Some challenges Some challenges Ex. Click on examples of a particular type of pronoun. Related approaches Related approaches Step 3. Controlled practice Language Awareness and Test Generation Language Awareness and Test Generation Step 3. Controlled practice Exercise Authoring Tools Exercise Authoring Tools Fx The learner is asked to Other approaches Ex. Fill in all pronouns in a text. · reorder words/phrases given (scrambled) list Summary Summary Ex. Find and correct incorrect pronoun choices in text. · complete fill-in-the-blank (FIB) slots References E.g.: That's him car. → That's his car. · created for tokens of targeted category given some information, where needed (e.g., stems)

Example for an activity progression 2. Passive	The WERTI System Vanessa Metcat and Detrair Meures Introduction Padagogical grounding	Example for an activity progression 3. Adverb placement	The WERTI System Vanessa Metcalf and Datmar Meunes Introduction Pedagogical grounding
Step 1. Receptive presentation Ex. System colors passive verb forms. (2) Her purse was taken while she wasn't looking. Step 2. Productive presentation Ex. Click on passive sentences Step 3. Controlled practice Ex. Given the main verb stem, fill in the passive verb string (i.e., the correct form of be and the past participle form of the main verb). Ex. Given an active sentence, transform the sentence to a passive using a combination of click and drag, and FIB.	The WERTI system Metallism of the second of	Step 1. Receptive presentation Ex. System colors verbs and verb-modifying adverbs. (3) The house had already been damaged. Step 2. Productive presentation Ex. Click on adverbs in a particular position: • at the beginning of a sentence • between a main verb and a prepositional phrase • before an auxiliary verb Step 3. Controlled practice Ex. Given constituent chunks and an adverb, with instructions on where this adverb should go, put the sentence together.	The WERTI system section of the sect
Example for an activity progression 4. Tense and Aspect	The WERTI System Vaness Metcal and Detrac Meures	What is involved in realizing such an approach?	The WERTI System Vanessa Metcalf and Detmar Meurers
Step 1. Receptive presentation Ex. System colors examples of different aspectual meanings together with relevant contextual cues. (4) a. We are going to New York tomorrow. b. We usually go to the grocery store on Fridays. Note: While the effect is semantic, the cues are lexical. Step 2. Productive presentation Ex. Click on sentences expressing a particular kind of meaning with the targeted verb forms, e.g., expressing future plans using present tense. Step 3. Controlled practice Ex. Given a main verb stem, provide the appropriate verb string using cues from context.	Introduction The WERT system The WERT system Earnys 1 Falles Earnys 2 Falles Earny	Two components can be distinguished: 1. Obtaining and selecting appropriate texts: Texts obtained through web search using terms provided by the language learner restrict web to news sites (e.g., Reuters) alternative: specific corpora Texts could be filtered for a specific learner level (cf., e.g., REAP project, Brown et al. 2005). 2. Identifying the targets in the selected texts and creating controlled practice exercises using the texts. We illustrate the approach, focusing on the second component, by showcasing an activity progression targeting prepositions.	Inforduction Privagues growing The WERT system Institute of Vision WERT and Vision Resident Except 2: Andrea Except

Realizing the proposal

Creating an activity sequence The system first annotates the web page text using

- efficient and robust NLP tools performing tokenization → tokens
 - ▶ lemmatization → word roots

The WERTI Project

Acknowledgements

OSU Project Context

CLLT research group

Dept. of Linguistics Humanities Inf. Syst.

About

People

- part-of-speech tagging → lexical categories
- morphological analysis → morphological properties
- shallow parsing → phrasal categories
- The language items targeted by the activity are identified using regular expression matching of target and contextual items in the annotated text
- The nature of the activity determines the complexity of
 - the annotation and the regular expressions required: Preposition activity: single instances of a lexical category

 - Tense and aspect: sequences of auxiliaries, inflected forms, and specific lexical items (contextual cues)

Realizing the proposal Current status

The WERTi System

Vanessa Metcalf and

Pedagogical grounding

WEDT and DiToraction

WEDT preposition activities

Related approaches

Language Awareness and

Exercise Authoring Tools

Other approaches

Summary €

The WERTi system

Turning from the general project description to the

status of the implementation, we have · implemented the system in Python, integrated into the Apache2 webserver using mod_python, including:

searching in the Reuters site providing news webpages

 linguistic annotation using current NLP tools (NLTK, Bird) and Loper 2004; TreeTagger, Schmid 1994)

The annotated text is mapped into Color, Click, and FIB

presentation code (HTML and JavaScript), and

integrated in the original web page. Only a standard web browser is needed to use the system.

► In the coming year we plan to integrate further linguistic annotation tools, target patterns, and activities.

 Currently, WERTi performs part-of-speech annotation and token-based matching to generate activities targeting the usage of prepositions. It is available at:

http://www.purl.org/net/WERTi

Exercise Authoring Tools Other approaches

Related approaches

Language Awareness and

The WERTi System

Vanessa Metcalf and

The WERTi syst

WERTI and FLT practice

Example 1: Pronouns

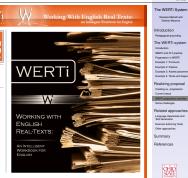
Realizing proposal

Creating ex. progressio

The WERTi System Vanessa Metcalf and

Welcome to WERTi! The WERTi syst What is an "intelligent workbook"? WEST) is a "workhook" herause it provides you with articities for a number of grammer WEST and FLT gractio topics, and "intelligent" because it makes up those activities when you ask it to, using Procession in WEDT articles you choose yourself! Example 1: Pronouns How do Luse WERT!? 1. First, choose a workbook topic from the list on the left, or at the bottom of this Once you have chosen a workbook topic. WERTI will ask you to enter a search topic you are interested in. It will find articles on that topic. You choose whichever one Realizing proposa Finally, choose an activity. Activity types are explained next. Current status What activities can I choose from? WERTI will find all the examples of your workbook topic in the article and color them blue. If you are interested in prepositions, for example, WERTI will show you Related approaches all the prepositions in the article. Language Awareness and Test Generation This time it is your turn to find examples of your workbook topic in the article, and Exercise Authoring Tools then click on them. If you are looking for prepositions, and you click on one, it will turn green. If you click on something else, it will turn red. Summary WERTI will provide you with one or more activities to let you practice using examples of your workbook topic. WERTI will ask you to fill in blanks, or rearrange References words by clicking on them and dragging them, or find and fix mistakes.

What workbook topics can I choose from?







have noticed a similar development in their own herds

" I think it works the same as with dogs - the closer a farmer's bond is with his animals , the easier it is for them to pick up his accent ."

Cheesemakers to which Green belongs, said it contacted John Walls, Professor of Pronetics at University College Landon, who said that a

rou more recent disping accents in the same species around the country. This could also be true of cows., " Wells said on the group's Web site (replaced-dos.)

According to Lane, accents among cows probably develop in a similar way as among humans, and resulted from spending time with farmers with differing accents.

children in the playground, for example, "he said. "Herds are quite soft-knit communities and do n't tend to leave the area."

He added that more scientific research was needed to prove what was

* Apparently the biggest influence on appents is peer groups -

* You find distinct chiming accords in the same species around the



The WERTi System

Vanessa Metcalf and





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LONDON (Reuters) - Cows have regional accents , a group of

Lloyd Green , from southwest England , was one of a group of farmers

"I spend a lot of time with my Friesians and they definitely "moo" with a Somerset draw!, " he said , referring to the broad of dairy low he

* I 've spoken to the other farmers in the West Country group and they

 $^\circ$ I think it works the same as with dogs - the closer a farmer's bond is with his animals , the easier it is for them to pick up his accent . $^\circ$

Dom Lane , spokesman for a group called the West Country Farmhouse Don Lane, spokesman for a group called the West Country Familiaus Diessemakars to which Green belongs, said it contacted John William Professor of PhoneScs at University College London , who said that a

" You find distinct chirping accents in the same species around the

country . This could also be true of cows . " Wells said on the croup's

According to Lane , accents among cows probably develop in a similar

* Apparently the biggest influence on accents is peer groups - on children

in the playground, for example , "he said ." Hends are quite tight-hirt communities and do n't tend to leave the area.

He added that more scientific research was needed to prove what was

have noticed a similar development in their own herds

similar phenomenon had been found in birds

Web site (replaced-dra)

Working With English Real Texts:



The WERTi System

Vanessa Metcalf and

ntroduction

Pedagogical grounding

The WERTi system

WERTI and FLT practice Progression in WERT Example 1: Pronouns

Example 4: Tense and Aspect

Realizing proposal

Creating ex. progression

Related approaches

Language Awareness and

Other approaches

Example 3: Adverb placeme Realizing proposal Creating ex. progression

Current status

Related approaches Language Awareness and

Exercise Authoring Tools

Other approaches Summary

References

Reuters News To Go W060: Watch Reuters Video

Current status EU signaled it wanted to see more disloque with BURNESS Armed and sales from an organization Related approaches

ENTERTAINMENT: Rapper arrested for sheet gip of IN DEPTH- Security must be set access not absorb TECHNOLOGY: Valce recognition poes wireless

Reuters News To Go · Explore "My Reuters"

Other approaches Summary

Language Awareness and Test Generation

REUTERS 10	The WERTI System Vanessa Metcalf and Detrair Meures	Realizing the proposal	The WERTI System Vanessa Metcalf and Detmar Meurers
Yes are here: Home Flore Files = Oddy Enough = Article Go to 6 Section: U.S. International Scalence Marketo Politics Entertainment Technology Sports Coldy Enough: U.S. Oner Coverage	Introduction	Some challenges	Introduction
Cover 'moo' with an accent, farmers believe Common C	Publication of the Control of the Co	 Annotation errors: Statistical NLP tools are efficient and robust Such tools make errors, e.g., 3–5% for POS tagging. Errors typically arise in specific problem cases, which are known (cf., e.g., Dickinson and Meurers 2003, 2005) Strategies for using NLP tools in ICALL: 	Protegous granding The WERT system Immiliation WERT system Immiliation Programs on WERT service Programs on WERT service Programs on WERT service Programs on WERT service Example 1: Processor Medical Example 2: Advant generate Example 2: Advant generate Example 2: Advant generate Example 3: Advant generate Example 3: Advant generate Example 4: Processor advantage Related approaches The Control of the Programs and the Example 4: Processor advantage The Example 5: Proc
Related approaches Language Awareness and Test Generation	The WERTI System Vanessa Messal and Detrair Meures Introduction Padagogical grounding	Related approaches Exercise Authoring Tools	22 / 26 The WERTI System Vanessa Metcalf and Detrait Meures Introduction Pedagogical grounding
VISL: Visual Interactive Syntax Learning (Bick 2005a,b) Games and visual presentations intended to foster knowledge of syntactic forms and functions. KillerFiller automatically creates slot-filler exercises: Annotated corpora used as text base Presents sentences only in isolation General category slots (e.g., prepositions, verbs) determined on the basis of annotation Used as an evaluative tool, not to foster awareness Automatic generation of multiple choice "cloze tests" (FIB) for language testing and vocabulary drill (cf., e.g. Coniam 1997; Irvine and Kyllonen 2002; Liu et al. 2005a).	The WERTT system **WERTIAN OF THE STATE S	The Task Generator for ESL (Toole and Heift 2001) Instructor provides texts and specifies "learning objectives" such as plural nouns, or present progressives. System filters sentences on the basis of vocabulary appropriateness and targeted categories. Exercises generated include gap-filling. System can identify complex grammatical patterns. The MIRTO project (Antoniadis et al. 2004) Aims at creating a general toolbox architecture supporting instructor-determined activity design. Emphasizes pedagogical practice and integration, but no explicit mention of language awareness or specific pedagogical progressions or aims. Plans to support "gap-filling" and "exical spotting" exercises in combination with a corpus database.	The WERTI system sendons with the control of the co

Other related approaches ALFALEX: Automatic or semi-automatic generation of contextualized vocabulary exercises using a tagger and a parser. (Verlinde et al. 2003) Working system available online Exercises include preposition gap-filling activities System integrates extensive lexical information, including the frequency of specific natterns of usera.	The WERTI System Verses bitied and Committeers Introduction Petagogial granding The WERTI system Versions The WERTI system Versions The WERTI system Versions The WERTI system Versions The WERTI set of the Version The WERTI set of the Vers	Summary Fostering language awareness is a well-motivated component of FLT. Reusing existing NLP technologies to generate language exercises is a promising approach for ICALL. We are developing the WERTI system, which provides web-based activity progressions based on real-world texts on topics selected by the learner. Our approach adds to existing work by combining	The WERTI System Verseas Meast and Dense Merces Introduction Prelapporal growthing The WERTI system resoulcion WERTI and TI prestice Progression WERTI Campia 1. Promount Campia 2. Pression Campia 2. Pression Campia 2. Tender Ca
including the frequency of specific patterns of usage Includes a learner model featuring a user history and storage of "difficult" examples on request Support tools for reading texts in a foreign language foster awareness by highlighting linguistic features (Glosser, Nerbonne et al. 1998; COMPASS, Breidt & Feldweg 1997)	Cornet status WETT in programs and WETT in programs and Senate of Language Assumests and Title Generation Senates Assumests and Title Generation Senates Assumests Summary References	Our approach ados to existing work by combining a focus on language awareness and a pedagogically motivated progression of activities a learner-driven approach, in which learners can generate as many activities as they want choose texts that match their interests activities that remain fully contextualized as whole articles with the original web presentation intact learner interaction with simple feedback based on the original text and linguistic analysis	Current estatus WERTP proposition activities Some activities Some activities Linguage Assessment and Execution Authority Tools Other approaches Summaary References
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