The French Digital Kitchen: Implementing Task-Based Language Teaching Beyond the Classroom

Paul Seedhouse, School of Education, Communication and Language Sciences, Newcastle University, Newcastle upon Tyne, England, UK

Anne Preston, School of Education, Communication and Language Sciences, Newcastle University, Newcastle upon Tyne, England, UK

Patrick Olivier, School of Computing Science, Newcastle University, Newcastle upon Tyne, UK

Dan Jackson, School of Computing Science, Newcastle University, Newcastle upon Tyne, UK

Philip Heslop, School of Computing Science, Newcastle University, Newcastle upon Tyne, UK

Thomas Plötz, Newcastle University, School of Computing Science, Newcastle University, Newcastle upon Tyne, UK

Madeline Balaam, Newcastle University, School of Computing Science, Newcastle University, Newcastle upon Tyne, UK

Saandia Ali, Linguistics and Language Didactics, University of Rennes, Campus Villejean, Rennes, France

ABSTRACT

This paper reports on the French Digital Kitchen, a design-based project which drew on digital sensor technology to take the principles of Task-Based Language Teaching (TBLT) out of the classroom and into the real-world environment of a kitchen. The project aimed to produce a situated language learning environment where learners could learn aspects of French language and cuisine whilst performing a real-world task. The article describes the blend of TBLT, human-computer interaction (HCI) and user-centred design (UCD) principles the authors adopted in constructing and trialling the kitchen, using multiple data sources. An example of a task cycle is then presented to illustrate (by using CA analysis of transcripts) how learners have used the resources of the kitchen to accomplish the task. The authors' findings show how the integration of the pedagogical and technological design enabled learners to notice and manipulate new vocabulary items.

Keywords: Digital Kitchen, Digital Sensor, French Language, Human-Computer Interaction (HCI), Task-Based Language Teaching (TBLT), User-Centred Design (UCD)

DOI: 10.4018/ijcallt.2013010104
INTRODUCTION

A significant challenge for the UK is how to employ digital technology to upgrade the skills of its workforce in a rapidly changing world. A specific challenge is how to improve the declining foreign language proficiency of the British workforce. The number of pupils gaining a qualification in a foreign language has decreased significantly, whilst a recent British Academy report discussed concerns that the future of the UK’s world-class research base might be threatened by the decline in foreign language learning. At the same time, the European Union has acknowledged that Europe faces specific challenges regarding increasing foreign language proficiency, an area which impacts the EU economy in areas such as social mobility between member states and the integration of migrants.

This article reports on the French Digital Kitchen, a French language learning project developed by human-computer interaction technologists and applied linguistics researchers at Newcastle University. Our project involved taking a normal kitchen and specifically adapting it for French language learning using the next generation of digital technology, namely activity recognition and sensor technology. We constructed a purpose-built kitchen that communicates with learners in French and gives them step-by-step instructions on how to prepare French cuisine and teaches aspects of French language.

There are a number of well-known problems relating to classroom foreign language teaching addressed by this project. These include, firstly, the universal problem of classroom language teaching, namely that students are rehearsing using the language, rather than actually using the language to carry out actions such as buying a train ticket; secondly, the difficulty of bringing the foreign culture to life in the classroom. In the digital kitchen environment, we intend that learners will be able to learn aspects of the language whilst performing a meaningful real-world task and will simultaneously experience the cultural aspect of learning to cook a foreign dish.

Our main focus is on how the situated nature of language instruction (timeliness and in context of the tasks) can be supported by technology. In broader terms, the project explores how technology can be used to perform real-world, culturally engaging tasks via the medium of a foreign language and also provides an example of how two rather different sets of skills may be acquired at the same time by use of appropriate technology.

The project involved a range of theoretical and practical issues in relation to language learning and human-computer interaction; the main issue on which this article focuses is how digital technology can be used to deliver task-based language learning in a real-world setting outside the classroom. The article firstly reviews the principles of TBLT and explains how the kitchen works. Next, we introduce the design principles on which the French digital kitchen was based, both in technological and pedagogical terms. After outlining the methodological framework, the study then uses observational data to illustrate how learners have used the kitchen within the 3-stage task cycle, presents the findings of the study and considers future directions for the project.

BACKGROUND: TASK-BASED LANGUAGE TEACHING

The pedagogical design of the French Digital Kitchen employs Task-Based Language Teaching (TBLT), a well-established approach to language learning which prompts learners to achieve a goal or complete a task (Skehan, 1998; 2003). Much like real-world tasks, such as asking for directions, TBLT seeks to develop students’ language through providing a task and then using language to solve it. Some of the main features of TBLT are that: meaning is primary (language use rather than form); there is some
21 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/article/french-digital-kitchen/76906

Related Content

The French Digital Kitchen: Implementing Task-Based Language Teaching Beyond the Classroom

www.irma-international.org/article/french-digital-kitchen/76906/

The Impact of Four Reading Motivational Constructs on Motivating EFL Learners to Read Online Texts in English

www.irma-international.org/article/impact-four-reading-motivational-constructs/77627/

Cluster and Time-Series Analyses of Computer-Assisted Pronunciation Training Users: Looking Beyond Scoring Systems to Measure Learning and Engagement

www.irma-international.org/article/cluster-and-time-series-analyses-of-computer-assisted-pronunciation-training-users/109828/

Pre-Service Teachers’ Perceptions of Learning a Foreign Language Online: Preparing Teachers to Work with Linguistic, Cultural, and Technological Diversity

www.irma-international.org/article/pre-service-teachers-perceptions-learning/67124/
“You’re a Winner”: An Exploratory Study of the Influence of Exposure on Teachers’ Awareness of Media Literacy
www.irma-international.org/article/you-winner-exploratory-study-influence/61345/