Synchronous communication in a web-based senior high **French course**

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Purpose of presentation

Report on partial results of a qualitative case study of interaction in a context of use of VclassTM synchronous communication tools for instruction in a grade 10, webbased French course in Newfoundland and Labrador

Presentation plan

Overview of context

- WBL in NL
- Senior-high French
 - VclassTM

Overview of study

- Aim
- Methodology
- Findings
- Conclusions

Web-based learning in NL

- Center for Distance Learning and Innovation (CDLI)
- 2002-2003 18 web-based, senior-high courses in 74 sites
 - Courses designed according to provincial curriculum guidelines
 - E-teachers deliver the courses
 - Location of teachers is independent of the location of students

Web-based French 2200

- 60% synchronous communication supported by vClassTM
 - 40% asynchronous component supported by WebCTTM
 - 20 students dispersed over seven schools
 - Two school districts in Labrador and northern Newfoundland
 - One e-teacher located in St. John's

VclassTM overview

• A real-time collaboration environment

• Offers a suite of tools accessed through a graphical interface

• Low bandwidth requirements (28.8 kbps supported).

VclassTM tools overview

- . Two-way audio
- Shared whiteboard
- Text-based direct messaging,
- Hand-raising with sequencing
 - Private & public polling
 - Application sharing

VclassTM interface



Direct messaging



Aim of the study

Describe the interactions in relation to the tools' affordances and constraints & in relation to the goals of instruction.

Aim of the study

Describe the types of interaction according to four types:

Student - teacher
Student (s) - student (s)
Student - content

4. Students/teacher – tools

Data collection

1. Six, semi-structured class observations

2. Three, small-group interviews with students

3. Two interviews with e-teacher

VclassTM used for observations and interviews

DM & WB records saved as printable files

Affordances & constraints

An affordance is a potential or perceived capacity of an object to enable the assertive will of the actor (Ryder & Wilson, 1996).

A user interacts with a tool in an effective way when he/she is able to maximize its affordances and minimize its constraints in relation to the goals for using the tools.

Goal of instruction using VclassTM

- P2P, S2S interaction
- Aural/oral communication
- Use of French as target language
- Comprehensible input and output

Affordances of VclassTM

- Private, multiple interaction using text-based DM.
 - O2O, P2P, S2S,S2T communication

- Public, unique, interaction using two-way voice.
 - O2M, T2S communication

Constraints of VclassTM

• Does not support video-conferencing

• Does not support multi, private one-to-one communication with two-way voice

• Does not support use of the microphone by more than one person at a time

Findings: Student-tool interaction

-Favoured DM

-Communicated in English

- P2P interaction

- S2T for queries re marks, assignments etc.

- Used it spontaneously without instructor prompt

Findings: Student-tool interaction

- Used WB with teacher prompt

- Used WB for P2P interaction when assigned individual WB privileges

- Used 2WV with teacher prompt

- Communicated in French using these tools

Findings: Teacher-tool interaction

• Favoured use of WB & 2WV

• Used French with these tools except with DM

• Relied on T2Ss, O2M interaction

• Sometimes used tools in support of one another

Main findings

• Students favored P2P tools

- Teacher favored T2Ss tools
- VclassTM affords more support for O2M, T2Ss interaction than for P2P

• VclassTM can potentially reinforce traditional teacher-centered approaches

Conclusions: Maximizing affordances

- Pedagogical approaches, techniques, activities need to be tailored to the context
- Mindful design & choice of types of interaction
 - Use of tools in combination with one another
 - Assignment of tool privileges to students
 - More reliance on DM for instruction

Conclusions

- Teachers using VclassTM could benefit from PD opportunities to appreciate the affordances and constraints of the tools in relation to the goals of instruction
 - Private audio in new version will potentially support goals
- More bandwidth & two-way video would provide greater support for curriculum goals and outcomes

References

• Ryder, M. & Wilson, B. (1996). Affordances and Constraints of the Internet for Learning and Instruction. Paper presented to a joint session of the Association for Educational Communications Technology, Indianapolis.

• Saloman, G. (1993). On the nature of pedagogic computer tools: The case of the Writing Partner in Lajoie, S. and Derry, S. (eds). *Computers as cognitive tools*. Lawrence Ehbaum Association. New Jersey.

Murphy, E. & Coffin, G. (December, 2003).

Synchronous communication in a webbased senior-high school course: Maximizing affordances and minimizing constraints of the tools.

American Journal of Distance Education. Vol. 17, No. 4. No tool is good or bad in itself: its effectiveness results from and contributes to the whole configuration of events, activities, contents, and interpersonal processes taking place in the context of which it is being used.

Salomon (1993)