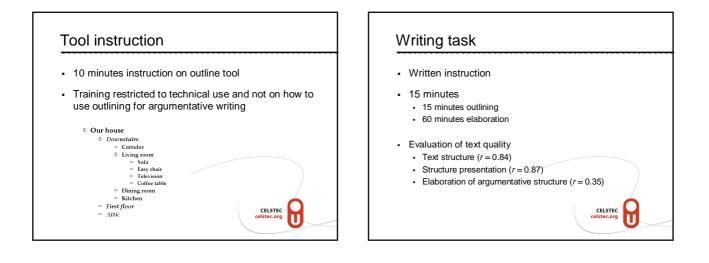
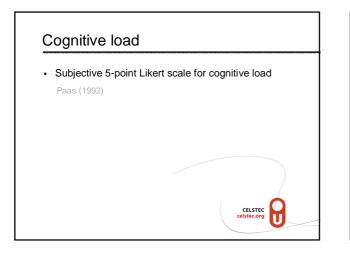
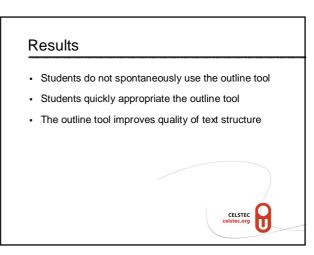


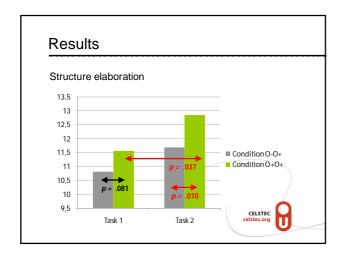
Method

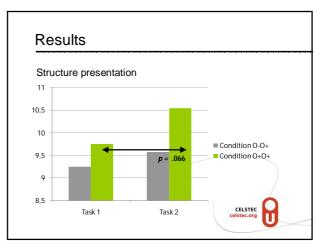
- 34 students in 10th grade
- 2 argumentative texts
- Within-subjects & between-subjects design





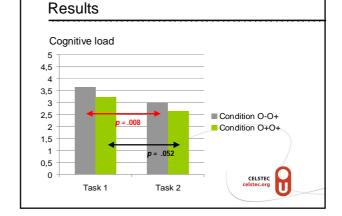






Results

- Students do not spontaneously use the outline tool
- Students quickly appropriate the outline tool
- The outline tool improves text structure
- Students experience less cognitieve load during writing



Results

- Students do not spontaneously use the outline tool
- Students quickly appropriate the outline tool
- The outline tool improves text structure
- Students experience less cognitieve load during writing
- Positive effects on writing products are more prominent for repeated tool-use



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Future research

- Expand design: condition without outline tool (O-O-)
- Focus on writing proces (Inputlog)
- More objective measure for cognitive load
- Improve text evaluation



More information?

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- De Smet, M. J. R., Broekkamp, H., Brand-Gruwel, S., & Kirschner, P. A. (in press). Effects of electronic outlining on students' argumentative writing performance. *Journal of Computer Assisted Learning. DOI: 10.1111/j.1365-2729.2011.00418.x*
- 2729.2011.00418.X
 De Smet, M. J. R., Broekkamp, H., Brand-Gruwel, S., & Kirschner, P. A. (2010). Betere teksten dankzij 'outline-tool'. *Didaktief*, 40(10), 40-41
 De Smet, M. J. R., Broekkamp, H., Brand-Gruwel, S., & Kirschner, P. A. (2010). Outline-tool helpt om beter te leren schrijven. *OnderwijsInnovatie*, 12(4), 32-34

