What are your students thinking when you teach GIS?

Ellison 5824
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Abstract. Anyone who teaches GIS must consider at least three things: what should students learn with GIS, how should they learn it, and how do you know what they've learned when you're done? In this talk, I discuss research in cognitive load theory and multimedia learning that has informed how I teach students to think with GIS by solving spatial problems. I present a framework for teaching that aims to help students acquire schemata for problem-solving with GIS, discuss how words and pictures presented during instruction may influence this learning, and illustrate how transfer tests can be used to assess meaningful learning.

Jeff Howarth is an Assistant Professor in the Geography Department at Middlebury College where he teaches GIS and Cartographic Design. He also directs Middlebury’s GIS Teaching Fellows Program, which aims to improve the quality and expand the scope of GIS instruction in undergraduate education. He received his PhD in Geography from UCSB in 2008. At Middlebury, he has received teaching awards from the National Institute for Technology in Liberal Education and Next Generation Learning Challenges.