What Makes It Hard to Teach Software Engineering to End Users?

Some Directions from Adaptive and Personalized Learning

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A diversified spectrum of end users based on software engineering activities

End User Concerns
- No perceived value of SE
- I have my own problems
- No SE mindset

Instructional Design Concerns
- No learning goals
- Diversified needs and contexts
- Varied teaching styles, processes
- Lack of resources and tools

RQ: How to motivate & teach SE to such a diversified audience?

A Sol: Apply Adaptive and Personalized Learning (APL) to SEE

Integrating SEE and APL through Ontologies

Architecture of ontology based framework for integrating SEE and APL
(A) User Needs (B) Ontologies (C) Ontology Mapping (D) SE Content Ontology (E) Different aspects of ID (F) Dynamic ID assembler