MoocRec V2.0

Introduction

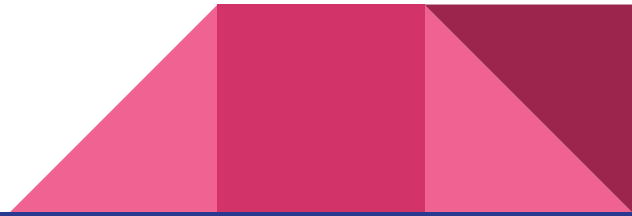
- Moocs are evolving and increasing in popularity over the past years rapidly.
- Users are having hard time finding content that suits them.
- This is the primary reason why Mooc Recommenders exist.
- MoocRec 1.0 was introduced to identify different learning styles of users.
- In MoocRec 2.0 we are planning to introduce a product with more user experience and effectiveness than the current version.
    - A more friendly way of understanding users' learning styles.
    - More types of videos analyzed.
        - Identify animations.
    - Take people's recommendations across forums, to account.

Feature Comparison MoocRec V1 vs V2

Feature	Class central	MoocRec v1.0	MoocRec v2.0
Takes user's learning style into account			 (Faster, user friendly)
Video production style classification		 (Only 3 categories)	 (Supports 6 categories)
Estimating course popularity			
User Profile & Dashboard			 (Improved)

Objectives for MoocRec 2.0

- Explore and decide on better alternatives to capture the learning styles of individuals
- Extend support for more types of videos
- Detecting more complex video styles e.g. animation
- Estimating course popularity based on discussions (forums, comments, etc.)
  - Finding out how active a discussion forum is



Better alternatives to capture the learning styles of individuals

- Previous: A standard questionnaire based on a research.
- Proposed: Attention analysing using webcam eye-tracking utilizing webgazer.

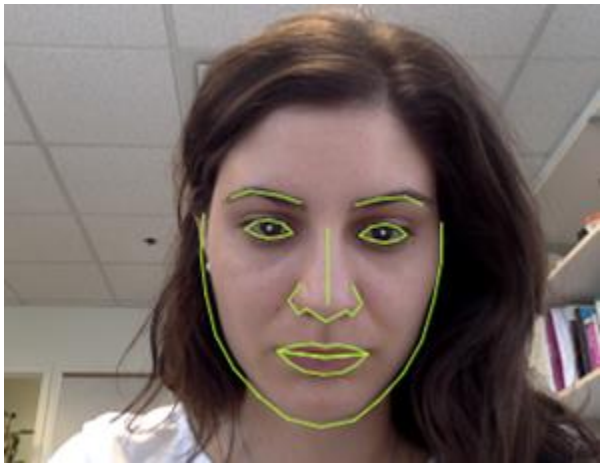


Figure 1.0 Webgazer face tracking

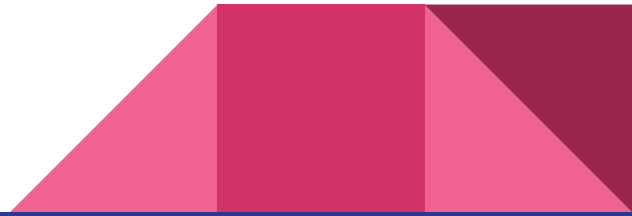
Support for more types of videos

Previous	Proposed
• Talking head • Presentation slides with voice-over • Presentation slides without voice-over • Screencast	• Animation • Videos with multiple teaching/learning styles

Estimating course popularity based on discussions

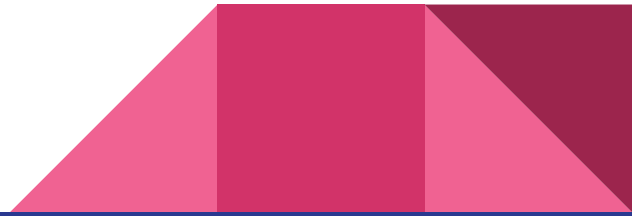
Context-understanding to identify

- What user is talking about(regarding a course or not).
- How satisfied he/she is about the course.
- Are they recommending a course or not.



Research areas

- Machine Learning
- Image Processing
- Facial recognition/Eye tracking
- Natural language processing



Thank You