



Motivational Courseware
Design using the ARCS Model



- Checklist for Multimedia Instructional Design
 - What makes courseware engaging?
- 2. The ARCS 4 factors
 - What is the ARCS model ? What are the four factors for engaging courseware?
- 3. Motivational design process
 - What are the major steps to make courseware engaging to the learners?

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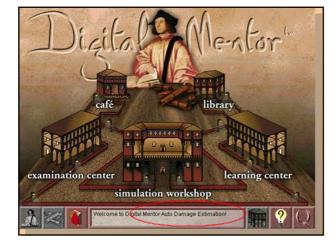
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Instructional Design (Suzuki, 2004) 1. Title Screen (Event 1) 2. Introduction (Events 2 & 3)

Checklist for Multimedia

- 3. Menu Structure
- 4. Information Presentation and Learning Guidance (Events 4 & 5)
- 5. Practice and Feedback (Events 6 & 7)
- 6. Evaluation and Ending (Events 8 & 9)

Based on: Keller, J.M., & Suzuki, K. (1988). Use of the ARCS motivation model in courseware design (Chapter 16). In D.H. Jonassen (Ed.), Instructional design for microcomputer courseware. Hillsdale: Lawrence Erlbaum Associates, 401-434.

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1. Title Screen (Event 1) ☐ Capture user's attention? (A-1) ☐ Related to the content of the material? (A-2) ☐ Not forcing users to view long animation? (A-1) Based on: Keller, J.M., & Suzuki, K. (1988). Use of the ARCS motivation model in course design (Chapter 16). In D.H. Jonassen (Ed.), Instructional design for microcomputer courseware. Hillsdale: Lawrence Erlbaum Associates, 401-434. 12 ©2007 Katsuaki Suzuki, Ph.D. All right reserved. Prepared for ADBI Workshop

2. Introduction (Events 2 & 3)

Give users the feeling "This is for me!"? (R-1)

Objectives are clearly stated, easy to understand? (R-2; C-1)

State Usefulness and Values of attaining objectives? (R-2)

Users can judge if they have prerequisites? (C-1)

Give review opportunities for prerequisites? (C-1)

3. Menu Structure

□ Provide a menu so that users can select order of learning? (C-3)
□ Overall structure is clear to the users? (C-1)
□ Divided into short sections to prevent boredom? (A-3)
□ Users know how much they finished and how much more to complete? (C-1)
□ Sections the users finished are marked as completed? (S-2)
□ Advices are given when users have options to select? (R-3)
□ Menu can be accessed soon after starting? (C-3)

4. Information Presentation and Learning Guidance (Events 4 & 5)

Not page after page information presentation consecutively? (A-2)

Ask questions to motivate the users from time to time? (A-2)

Order the contents from easy to more difficult? (C-1)

Users can detect weak points from early stages? (C-2)

Have adequate concreteness with familiar examples and illustrations? (R-1)

5. Practice and Feedback
(Events 6 & 7)

Provide practice opportunities in risk-free situations? (C-2)
Informational feedbacks are given for wrong answers? (C-2)
Affective feedbacks are given for correct answers? (S-2)
No negative/critical feedbacks for wrong answers? (S-2)
No interesting feedbacks for wrong answers? (A-1)
Chances for re-try are given? (C-2)

6. Evaluation and Ending
(Events 8 & 9)

Hold evaluation criteria constant throughout the material? (S-3)
Passing criteria and evaluation conditions are clear in advance? (S-3)
Affiliate success to users' effort? (C-3)
Position users' success in a bigger picture (future advances)? (R-2)
Provide immediate opportunities to apply knowledge/skill that user just mastered? (S-1)

Engaging instruction

Not entertainment, but engagement

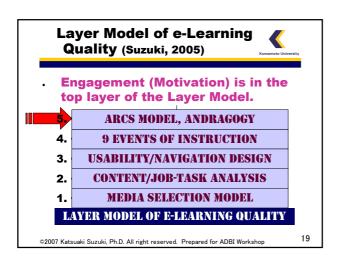
Motivation as input

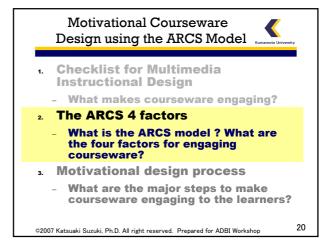
Motivation as output: Continuing motivation in life-long learning area

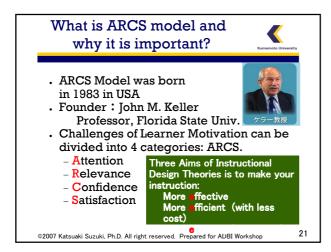
I studied very hard, and now I can do it, but I don't want to do more, if I have a choice.

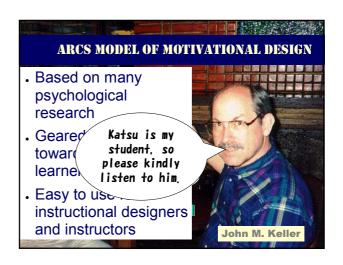
Self-regulated Learning (SRL): From teacher control to learner control

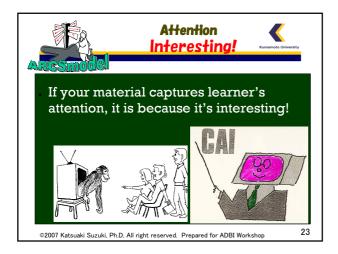
Motivation as a self-control skill for own learning

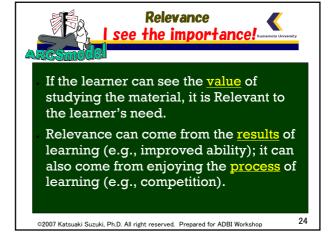




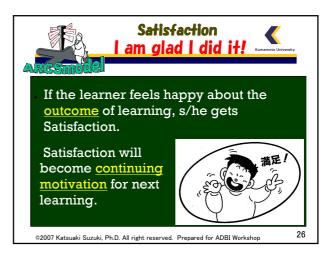


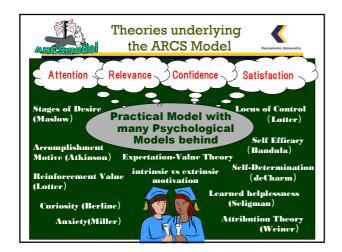


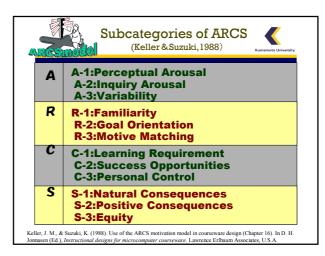


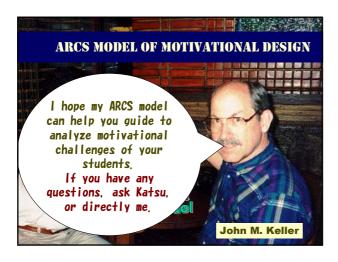


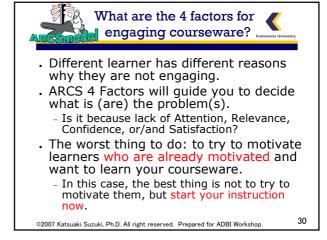


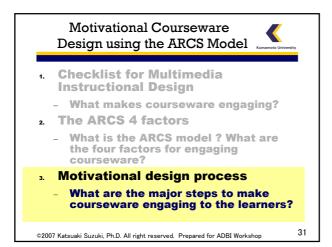


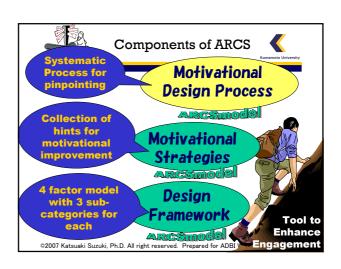


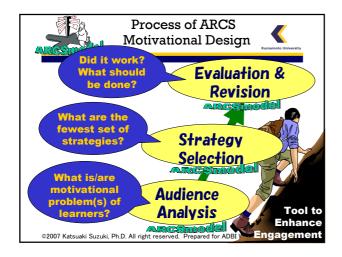


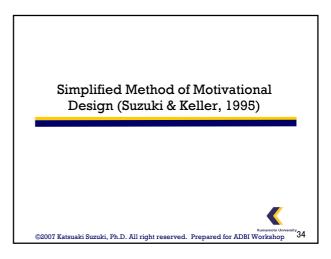


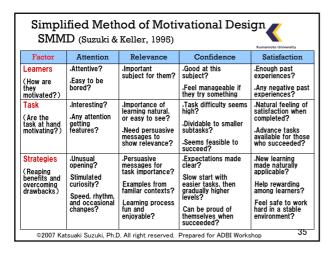


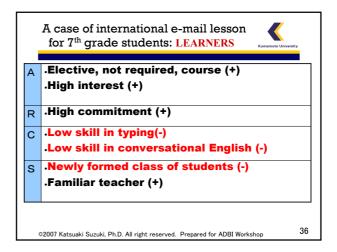


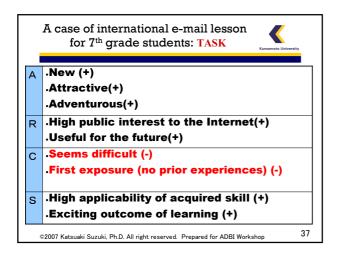














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