













Content Retention in a Conversation

- Person A calls Person B on the phone and tells B some information. How much of that information do you think is retained (correctly) after the conversation?
- q Less than 20%
- **q** 20-40%
- q 40-60%
- q 60-80%
- q Over 80%

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Implications for How One Can Teach More Effectively

Suggestions:

- Regularly shift gears, change subjects and teaching techniques to avoid/break monotony
- In Involve people mentally and physically (kinesthetic learning activities) in their learning
- Provide alternative means for the non-auditory learners in the audience
 - Note: Not

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People Learn Best When ... (revisited)

- ... their strongest senses are engaged (e.g., visual, auditory, kinesthetic).
- ⁿ The case against a one-size-fits-all approach
- Suggestion: Provide alternative forms and formats of explanation in order to match the different learning styles of your students / audience.

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What Different Learning Styles Are Out There?

- Visual vs. auditory learners
- n Kinesthetic vs. static learners
- n Active vs. passive learners
- n Individual vs. group learners
- n Learners with vs. without disabilities
- Cultural biases, learned behaviors, norms, and expectations

Felder-Silverman have terms for many of these.

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Why Do Learning Styles Matter?

- If students are aware of them, they'll be more careful about not shunning activities that do not fit "their style."
- Student-teachers who know about learning styles may be more careful in approaching their students.
- The awareness of learning styles suggests what might be reasonable to expect from students.
 - "Grad students understand computing well, but students in their classes may have a different way of looking at things."
- They suggest that we all differ in some aspects and that a one-size-fits-all approach to teaching would fail for many.
 - It is tempting, but inconsiderate, to say "This was easy for me, therefore it should be clear for them too."

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How Do We Gauge Student Engagement?

- "Teaching Tips" argues that we cannot reliably tell the level of engagement by eye contact, question responses, or even by the exam results.
- How do we tell if students are engaged then?

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How Do We Gauge Student Engagement?

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Suggestions:

- Consider the whole person; try to get to know them more fully and avoid judging them.
 - The case for an individualized approach to teaching
- Show respect for the differences.
- Be encouraging. CSE599A TA Training, Au'05, Session 03

Felder-Silverman Test Results Aggregated (from Today)

	ActSenVisSeq 1		ActIntVrbSeq		
	RefSenVisSeq		RefIntVrbSeq	2	
L	ActSenVisGlo		ActIntVisSeq	1	
7	Ref <mark>SenVis</mark> Glo 1	L	RefIntVisSeq	2	
	ActSenVrbSeq		ActIntVrbGlo	1	
	RefSenVrbSeq		RefIntVrbGlo	3	
	ActSenVrbGlo		ActIntVisGlo	4	
	RefSenVrbGlo 2	2	RefIntVisGlo	3	
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MBTI Test Results in CSE403 (Aggregated across 6 Quarters)

١,	99.	-90.000			~				
	ENFJ	10		ESTJ	3				
ı	INFJ	14		ISTJ	20				
H	ENFP	1		ESFJ	3				
	INFP	2		ISFJ	7				
	ENTJ	17		ESTP	2				
	INTJ	25		ISTP	3				
	ENTP	7		ESFP	2				
	INTP	8		ISFP	4				
	CCEECOA TA Training Audor								

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Does It Make a Difference Which Test One Uses?



- n No matter which one of several known tests one bases the conclusions on, the recommendations remain the same.
- n Teachers need to provide multiple paths (not just a repetition of the same one) to the concepts that they want students to learn.

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Meta-Lessons: Teaching Techniques I Used Today

- Having students prepare for class by reading a short related material
- Getting feedback from students in class Sheets where you entered the test results
- Classroom technology to engage everyone
- In-class discussion
- Shifting gears between presentation and discussion
- Meta-cognition

 How are we doing?
- Just-in-time teaching

 n Incorporating results from the test into the discussion
- One-minute paper: for quick feedback CSE599A TA Training, Au'05, Session 03

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Take-Away Points

- There are *valid* differences in how each of us perceives and reacts to the world!
 - The "if you aren't like us, there's something wrong with you" mentality has caused untold suffering in the history of mankind, and, unfortunately, continues to pervade even today.
 - If you've seen only one view of the world, it's not surprising that you might believe it to be the only possible way.
- Approach your students (and really, all people) with an appreciation of how they differ and are unique.

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One-minute Feedback

- What one or two ideas discussed today captured your attention and thinking the most?
- List any ideas / concepts that you would like to hear more about. Be specific.

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