This series of slides shows a before-and-after comparison to demonstrate how to present information in this format to be both appealing and easy to read.

SBL
Scenario-Based Learning

A Learn-By-Doing Model
Before

Notice how some of the information on the next slide needs to be emphasize; Lack of contrast makes the slide look visually uninteresting.
What is Scenario-Based Learning?

• A learning model developed by De Anza College, Foothill College, Carnegie Mellon University, and industry representatives

• Draws upon the Cognitive Science research of Dr. Roger Schank
  • Founder of the renowned Institute for Learning Sciences, Northwestern University
  • Professor of Psychology and CS at Yale University
  • Director of Yale AI Project
Before & After Example

Before & After

Notice how some of the information on the next slide needs to be emphasize; Lack of contrast makes the slide look visually uninteresting.

Notice how the main point was emphasized. Interest and life was breathed into the layout.
Introduction to Scenario-Based Learning

...draws upon the Cognitive Science research of Dr. Roger Schank

Real thinking never starts until the learner fails

Founder of the renowned Institute for Learning Sciences, *Northwestern University*
Professor of Psychology and CS at *Yale University*
Director of Yale AI Project
Before & After Example

Before

NEXT 4 SLIDES: present information in a series, showing the current information as well as the “ghosted” past information
A Learn-By-Doing Model

elc.fhda.edu/NSF_ATE.mov

Problem-Based Learning...

...challenges students to apply knowledge in the context of the workplace

**Students** Act as Employees
- Ill-defined industry problem
- Professional quality deliverables
A Learn-By-Doing Model

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- Provide resources
- Moderate problems
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- Review
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All Reflect on
- The learning
- The process
- Potential improvements
Not bad…

However, this is better…
Before & After Example

NEXT 4 SLIDES: present information in a series, showing the current information as well as the “ghosted” past information.

Notice how the 4 pieces of information were each given a separate slide with more space. The title bar at top keeps the subject in mind from slide to slide.
Students Act as Employees

- Work on an ill-defined, industry-related problem
- Create professional-quality deliverables
Faculty
Acts as Manager

- Facilitates the work
- Provides the resources
- Moderates the problems
Industry
Acts as Volunteer

- Oversees the process
- Reviews the outcomes
- Advises the students
Everyone Reflects on…

- What they learned
  The education
- What happened
  The process
- What to do in the future
  Potential Improvements
Before & After Example

Before

Avoid showing a lot of information on a single Slide, as the next slide tries to do.
Tips for Success
Roger Schank & Colleagues & Carnegie Mellon-West

- Students learn best by doing
- Students retain knowledge best when it is contextual and related to a task
- Students solidify and enhance skills by reflecting on successful strategies
- Give focused feedback
- Allow students to struggle
- Provide just-in-time info or mini lectures
- Soft skills
- Permit reflection time
- Develop trust and a safe place to try and fail
- Bring the real world to the classroom
Before & After Example

Before & After

Avoid showing a lot of information on a single Slide, as the next slide tries to do.

Better to break it down in a series of smaller pieces of information.
Students

• Learn best by doing
• Retain knowledge best when it is contextual and related to a task
• Solidify and enhance skills by reflecting on successful strategies

So…
Faculty should

- Give focused feedback
- Allow students to struggle
- Provide just-in-time info and/or give mini lectures
- Help students develop soft skills
TIPS for Success

Roger Schank & Colleagues & Carnegie Mellon-West

• Permit reflection time
• Develop trust and a safe place to try and fail
• Bring the real world to the classroom
Notice how the subject is placed on both slides at the top...

And emphasis is given to certain important words, bringing out the message and adding visual interest with contrast.