I - Process Programming vs Modeling

➲ **Read the two ICSE9 papers first, then the two ICSE19 papers. The supplemental slides will provide background and examples.**

➲ Background

⮩ What are the advantages of defined process technically? managerially?

⮩ What are the 5 levels in CMM? What do they represent and what are their differences?

⮩ What are fundamental differences between models and programs?

⮩ How do humans fit into these two paradigms?

⮩ What are programs good at? People?

II - Process Programming vs Modeling

➦ **Osterweil's process programming**
  ↳ What are Osterweil's main complaints that lead him to process programming?
  ↳ What view of software processes does his example suggest?
  ↳ What advantages do we derive from process programming?
  ↳ What are the problems in considering process as software?
  ↳ Why does he thing process programs should be executable?

➦ **Lehman's Response**
  ↳ How is Lehman's view different from Osterweil's?
  ↳ What are important aspects of models that make them more useful for processes?

➦ **Which side do you come down on? Why?**

➦ **In the ICSE '99 papers, how are their views different form their '89 views?**

III - A Broad View of Process Sytems

⇨ **Process Capture**
  ↳ **What are three critical distinctions to be made about processes? Why are they important?**
  ↳ **Why are events a useful mechanism for process capture?**
  ↳ **What is the typical basis for best practices?**

⇨ **Process Architecture and Design**
  ↳ **What aspects of product architecture and design are appropriate for processes?**
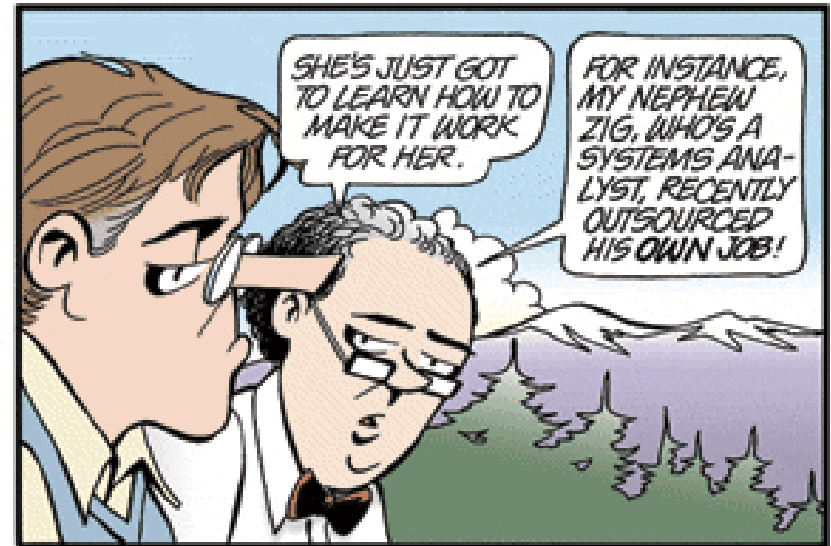 ↳ **What are some of the recommended principles?**
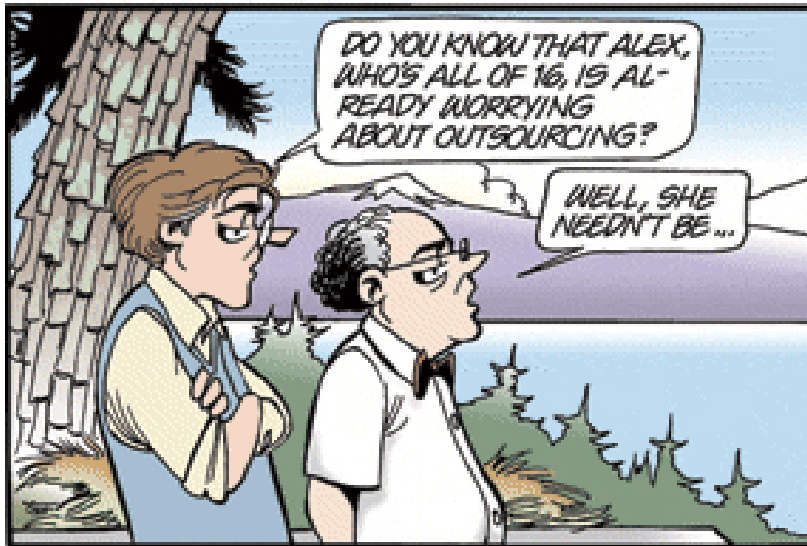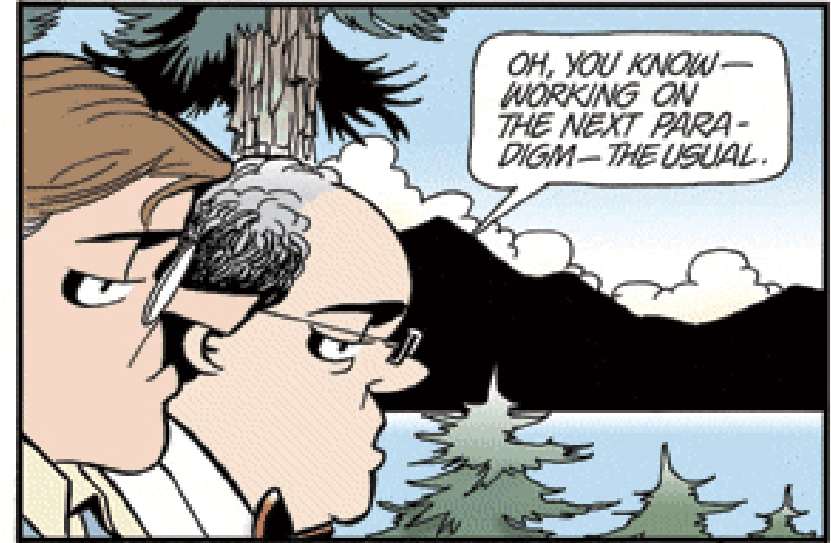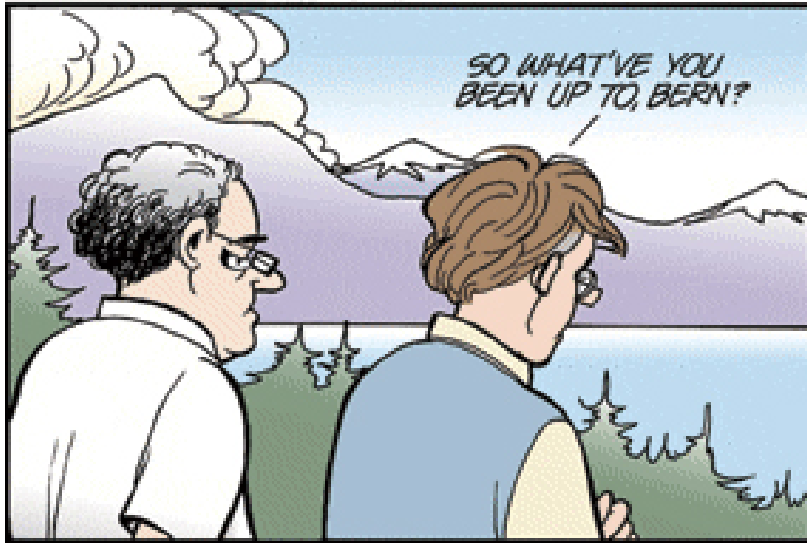
⇨ **Construction**
  ↳ **What are the main differences between process programming and process modeling?**
  ↳ **Why a dynamic and not a static build process?**

⇨ **What were the lessons learned from the 5ESS process system studies?**

IV - Programming and Modeling Examples

➪ **How are the two approaches the same? Different?**
- ↳ **General philosophy?**
- ↳ **Basic control structures?**
- ↳ **Execution/enactment control?**
- ↳ **Assumptions and results?**
- ↳ **Exceptions?**
- ↳ **Inter-process (activity, step, etc) communication?**

➪ **How useful and intuitive do you find Little Jil's visual programming? I/I textual approach?**

➪ **How would you program informal activities in Little Jil? I/I?**

Process by Doonesbury

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