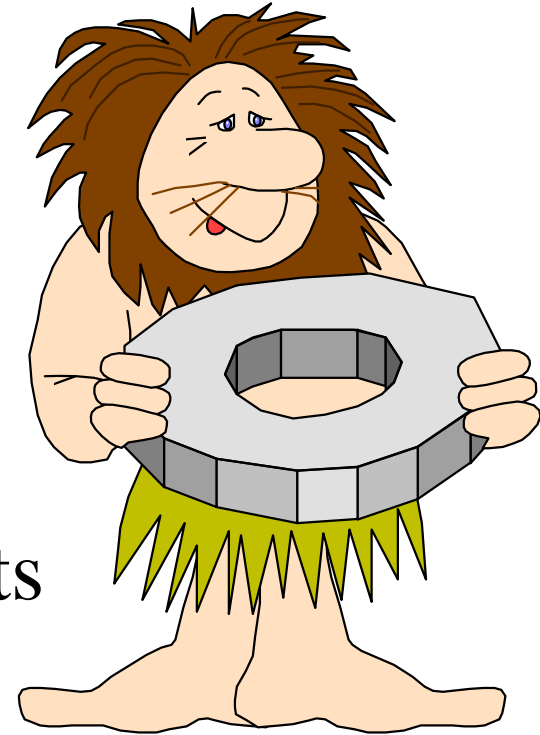


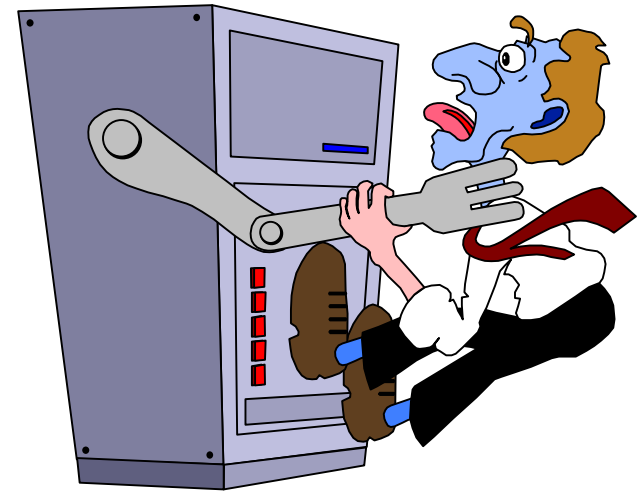
The Challenge

- Complex chemical reactions
- Equipment designed to its limits
- Limited measuring principles
- Production under economic pressure
- Human capabilities have not changed

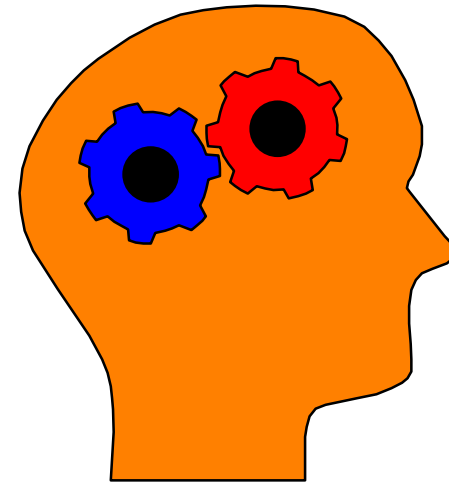


Computers

- Have **NO** intelligence
- Have no “feel” for stress
- Can only do what they are programmed for
- Are excellent in performing routine tasks
- Can remember thousands of facts

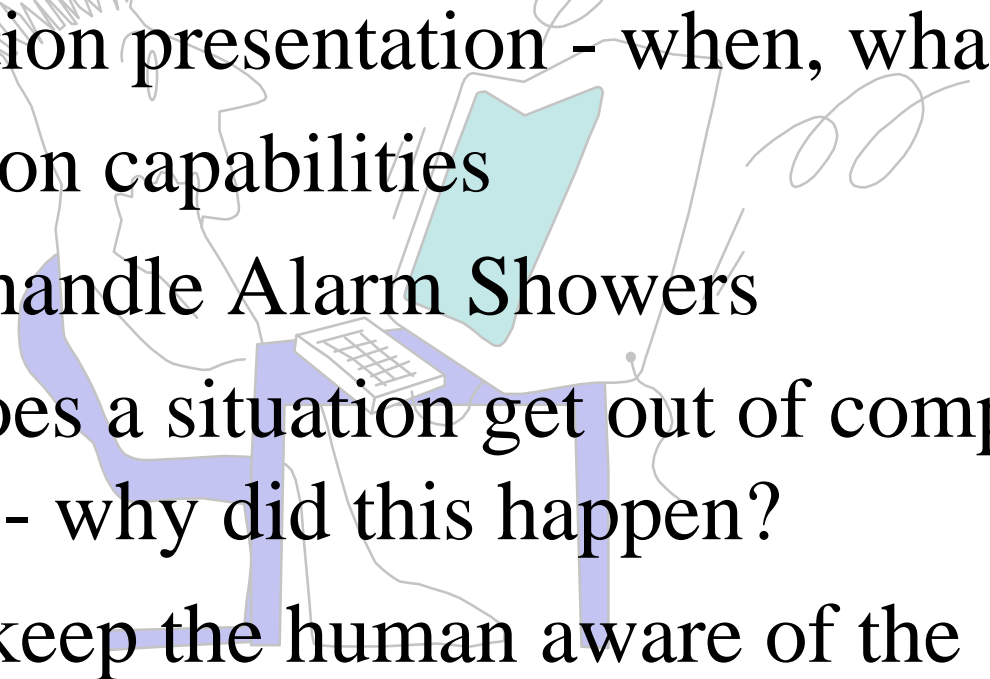


Humans



- Learn to use new tools
- Adopt to new situations fast
- Can associate facts with each other
- Include “soft” facts in decisions
- Use their five senses for additional information
- Have degraded reactions under stress

Human-Computer Issues

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- Information presentation - when, what, how
 - Navigation capabilities
 - How to handle Alarm Showers
 - When does a situation get out of computer control? - why did this happen?
 - How to keep the human aware of the program capabilities?