



Planning & system installation

IB Computer Science



Content developed by
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HL Topics 1-7, D1-4



1: System design



2: Computer Organisation



3: Networks



4: Computational thinking



5: Abstract data structures



6: Resource management



7: Control



D: OOP

HL & SL 1.1 Overview

Planning and system installation

- 1.1.1 Identify the context for which a new system is planned.
- 1.1.2 Describe the need for change management
- 1.1.3 Outline compatibility issues resulting from situations including legacy systems or business mergers.
- 1.1.4 Compare the implementation of systems using a client's hardware with hosting systems remotely
- 1.1.5 Evaluate alternative installation processes
- 1.1.6 Discuss problems that may arise as a part of data migration
- 1.1.7 Suggest various types of testing

User focus

- 1.1.8 Describe the importance of user documentation
- 1.1.9 Evaluate different methods of providing user documentation
- 1.1.10 Evaluate different methods of delivering user training

System backup

- 1.1.11 Identify a range of causes of data loss
- 1.1.12 Outline the consequences of data loss in a specified situation
- 1.1.13 Describe a range of methods that can be used to prevent data loss

Software deployment

- 1.1.14 Describe strategies for managing releases and updates



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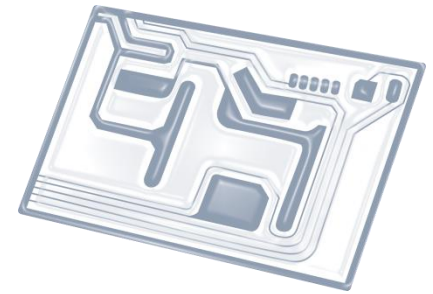


7: Control

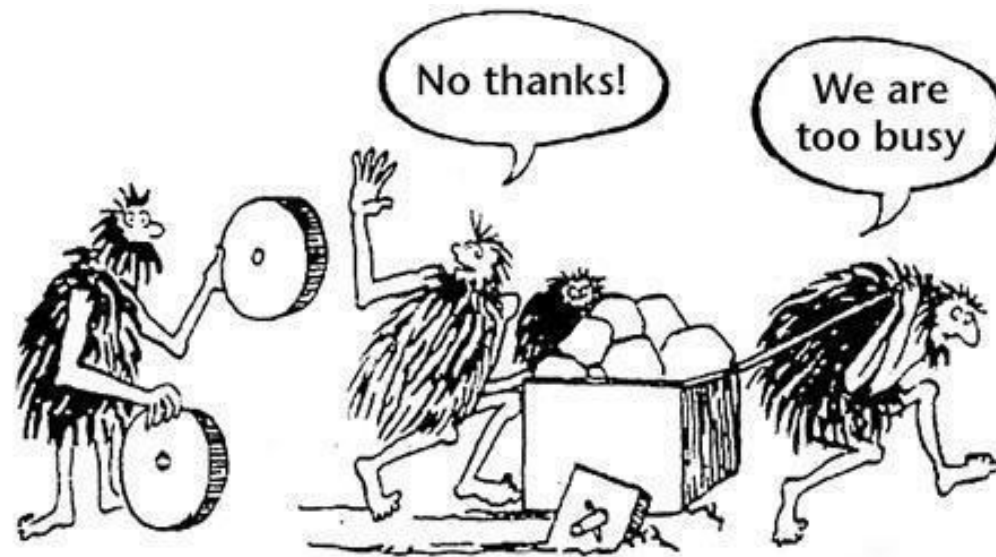
D: OOP



Topic 1.1.2



Describe the need for **change management**



Change is not always easy

Changing a system can be difficult for a variety of reasons:

- Users don't like change (too often/at all)
- New systems might omit old features
- Old systems might be faster in certain circumstances
- People find change complex
- From a technology perspective, change might lead to incompatibility
- There might be data loss during migration
- It might be expensive (either in terms of money or time)
- ... *the list goes on!*



Change must be **managed**

Before any change is applied, the following steps might make the process easier:

