

```
mirror_mod = modifier_ob.  
Set mirror object to mirror  
mirror_mod.mirror_object  
operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True  
selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly  
-- OPERATOR CLASSES ----  
types.Operator):  
X mirror to the selected  
object.mirror_mirror_x"  
mirror X"  
context):  
context.active_object is not
```

CSci363 User Interface Design

Friday, August 20, 2024

- **Today's session:**
- Introduction
- History of software development
- Software Development Ethics

CSci363 User Interface Design



How the customer explained it



How the Project Leader understood it



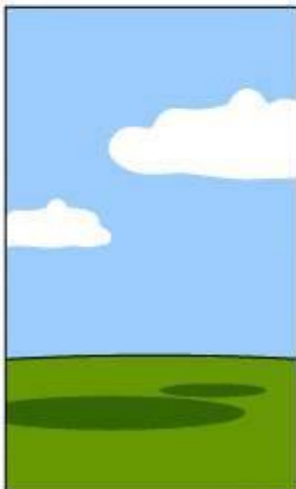
How the Analyst designed it



How the Programmer wrote it



How the Business Consultant described it



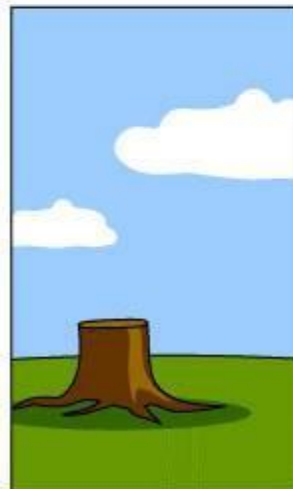
How the project was documented



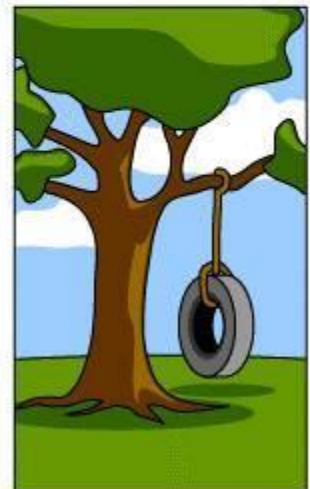
What operations installed



How the customer was billed

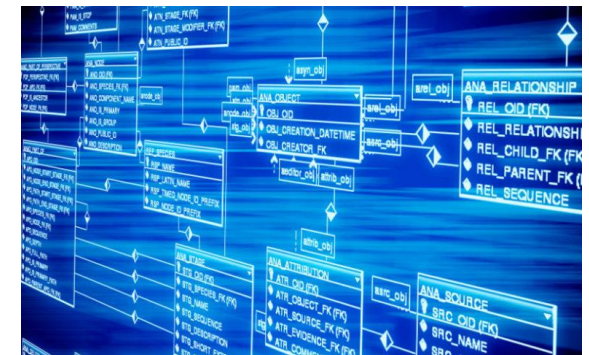
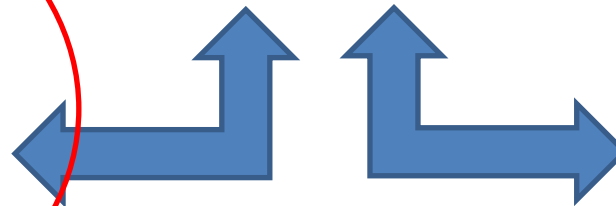
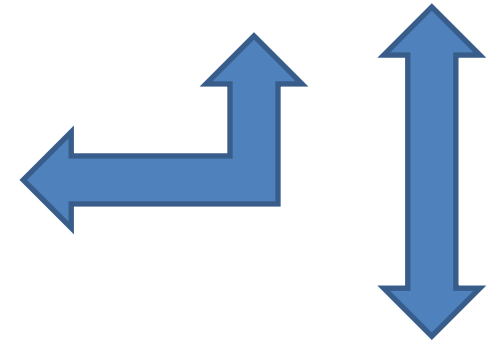


How it was supported



What the customer really needed

The image displays a variety of electronic devices and peripherals, including a keyboard, mouse, webcam, microphone, speakers, monitors, printers, and a game controller, all enclosed within a red dashed oval. A large blue arrow points from the oval towards the bottom right corner, where a snippet of JavaScript code is visible.



Software Development

The economies of ALL developed nations are dependent on software.

More and more systems are software controlled

Software engineering is concerned with theories, methods and tools for professional software development.

Expenditure on software represents a significant fraction of GNP in all developed countries.

Software costs

Software costs often dominate computer system costs. The costs of software on a PC is greater than the hardware cost.

Software costs more to maintain than it does to develop. For systems with a long life, maintenance costs may be several times development costs.

Software engineering is concerned with cost-effective software development.

FAQs about software development

What are the costs of software development?

What are software development methods?

What is CASE (Computer-Aided Software Engineering)

What are the attributes of good software?

What are the key challenges facing software development?

What is software?

Computer programs and associated documentation such as requirements, design models and user manuals.



Software products may be developed for a particular customer or may be developed for a general market.



Software products may be

Generic - developed to be sold to a range of different customers e.g. PC software such as Excel or Word.

Bespoke (custom) - developed for a single customer according to their specification.



New software can be created by developing new programs, configuring generic software systems or reusing existing software.

What is software engineering?

Software engineering is an engineering discipline that is concerned with all aspects of software production.

Software engineers should adopt a systematic and organised approach to their work and use appropriate tools and techniques depending on the problem to be solved, the development constraints and the resources available.

What is the
difference
between software
engineering and
computer science?

Computer science is concerned with theory and fundamentals; software engineering is concerned with the practicalities of developing and delivering useful software.

Computer science theories are still insufficient to act as a complete underpinning for software engineering (unlike e.g. physics and electrical engineering).

What is the
difference
between software
engineering and
system
engineering?

System engineering is concerned with all aspects of computer-based systems development including hardware, software and process engineering. Software engineering is part of this process concerned with developing the software infrastructure, control, applications and databases in the system.

System engineers are involved in system specification, architectural design, integration and deployment.