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	Assessment		Weighting	Grade	]	
	Assignments			35%		
	Ass1	Group	10			
	Ass2	Individual	20			
	Ass3	Individual	40			
	Ass4	Group	30			
	Tutorials			5%		
	Mid-term	Closed book		10%		
	Final Exam	Open Book		50%		
	Total marks			100%		
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R Readings... 1. My textbook, and 1. The User Interface Concepts & Design, Lon Barfield, Addison-Wesley (1993) 2. The JFC Swing Tutorial - A Guide to Constructing GUIs, Kathy Walrath & Mary Campione, Addison-Wesley (1999)3. Tcl and the Tk Toolkit, John K. Ousterhout, Addison-Wesley (1994) CS3283 - Hugh Anderson's notes Page number: 9



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✓ Early user interfaces text based - fixed event ordering.

- ✔ GUI provides for complex interaction, and
- ✔ GUI relies on shared concepts or metaphors.

GUI programming is about the conceptualization, design and implementation of that part of a software application which is concerned with user interaction.

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<u></u>	How not to do GUI		
	To be filled in by Applicant Start Date (dd/mm/yyyy): 20/10/2001 End Date (dd/mm/yyyy): 22/10/2001 End Date (dd/mm/yyy		
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## Key points



Another key point is that humans are not equipped to handle multiple things at one time, and this leads us to try to keep interfaces simple and uncluttered.

Humans are particularly good at navigating systems which have some analogy to things they know - for example the use of the desktop metaphor is well established and works well in most cultures. Icons are also useful, but shouldn't be abused.





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## Non-native platforms



The following systems can be used to provide a consistent environment that is independent of the host operating systems:

- Java/Swing
- Web browser interfaces
- Thin client systems

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Widget sets



[possibly evoking "window gadget"] In graphical user interfaces, a combination of a graphic symbol and some program code to perform a specific function. E.g. a scroll-bar or button. Windowing systems usually provide widget libraries (sets) containing commonly used widgets drawn in a certain style and with consistent behaviour.

When we use different widget sets, our applications have a slightly different look-and-feel.

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In this module, we introduced the following topics:

- Rules of GUI
- Types of applications
- Windowing/GUI environments
- Widgets

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