

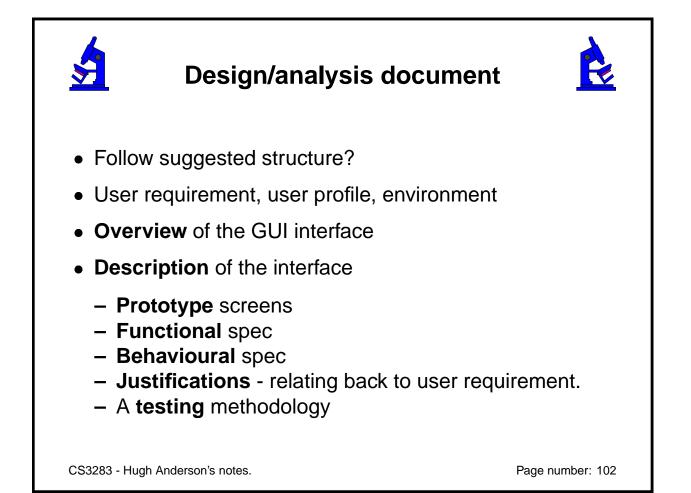


Deliverables



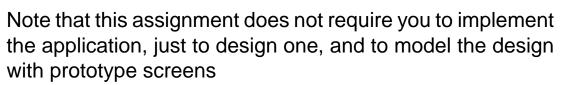
- A title page
- Table of contents...
- Introduction non-technical
- System architecture with justifications
- GUI design/analysis document

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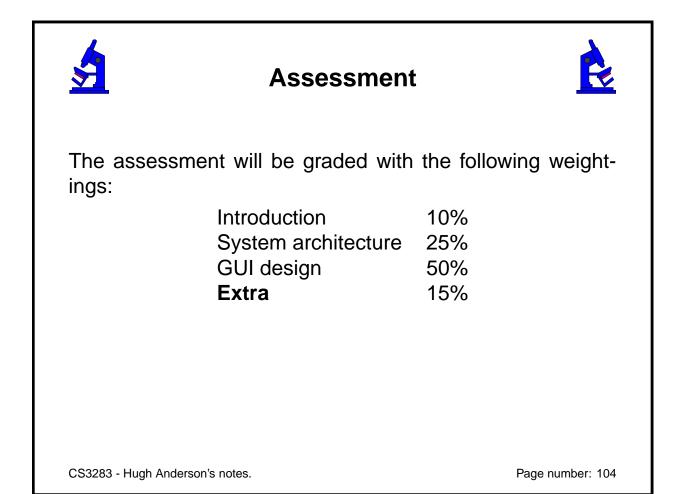


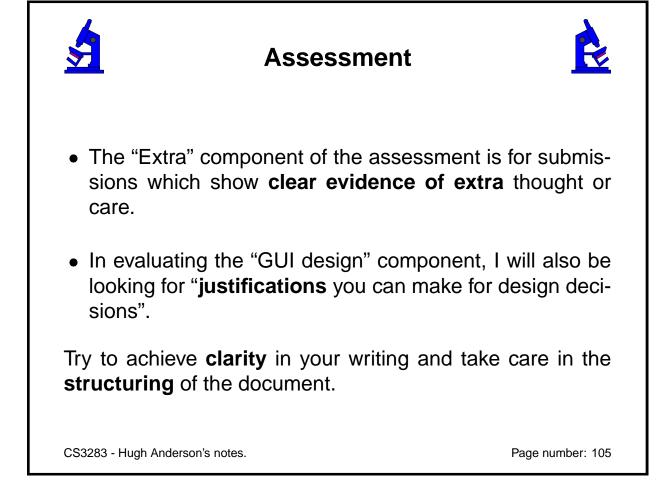
Design/analysis document

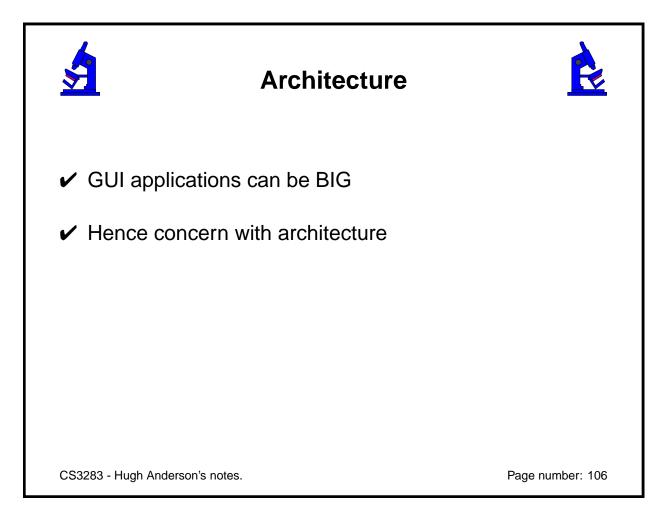


You could use Java/Visual Basic/ a graphics editor... anything as long as you show screenshots.

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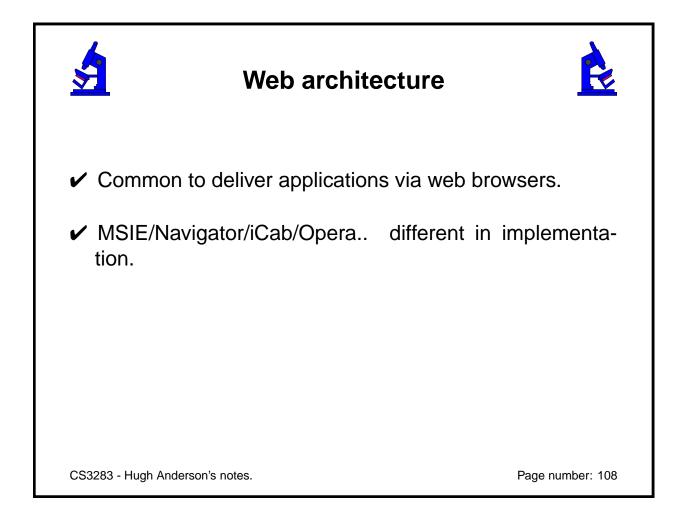


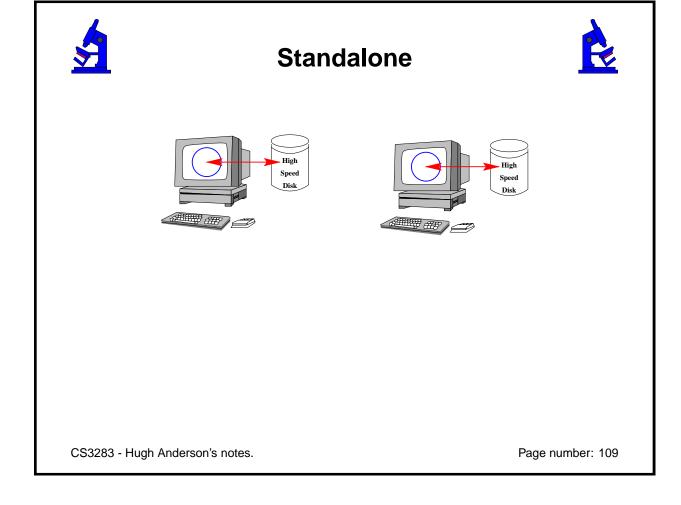
Architecture

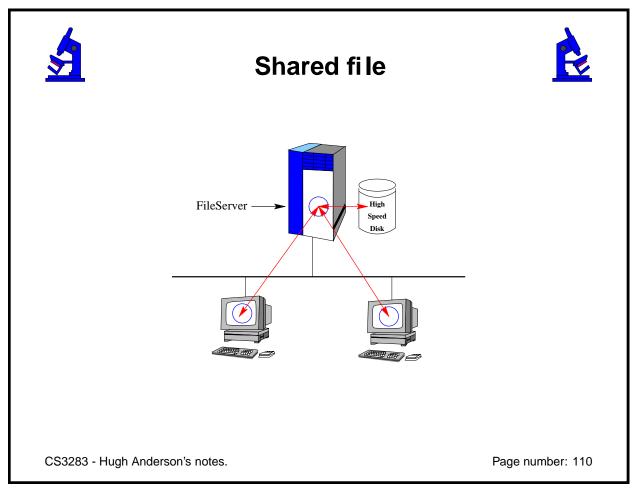


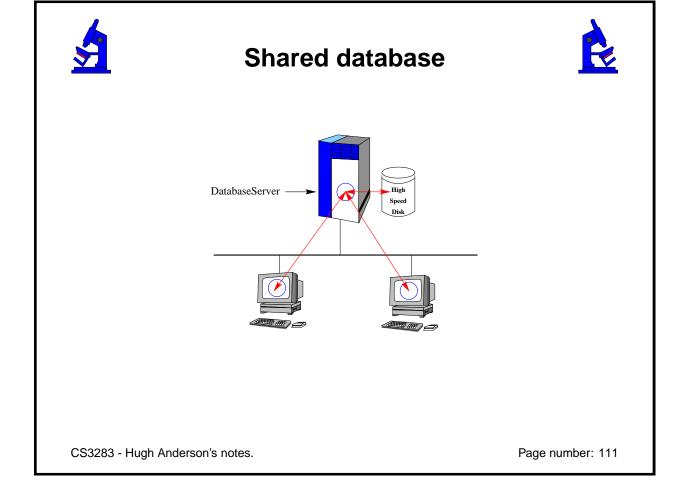
- Standalone
- Shared file
- Shared database
- Web based
 - Simple
 - Scripting
 - Java

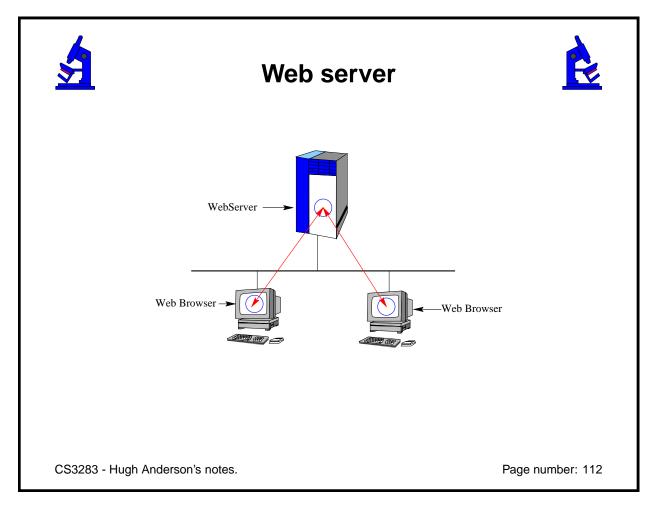
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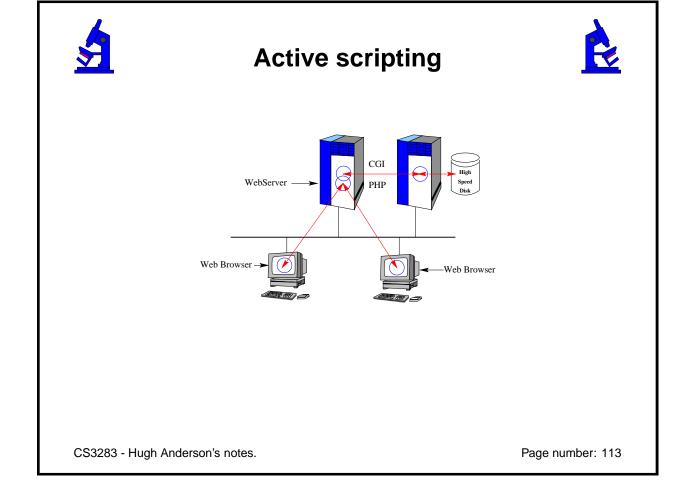


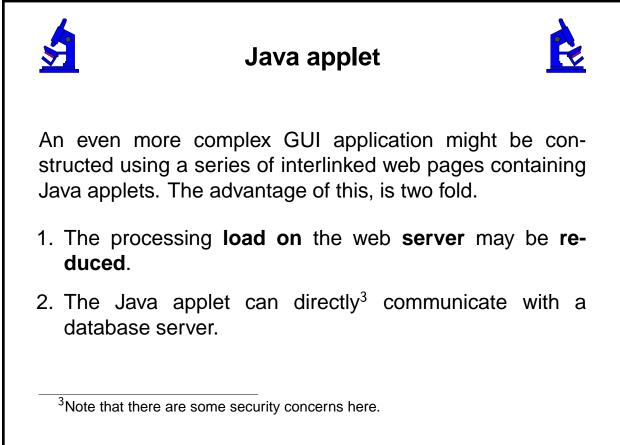




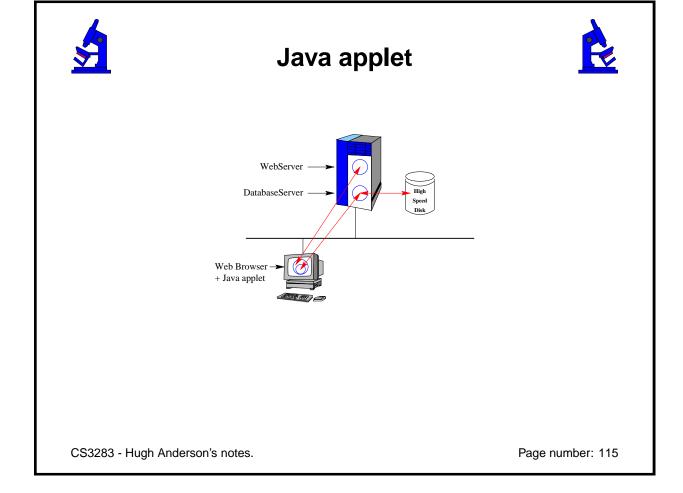


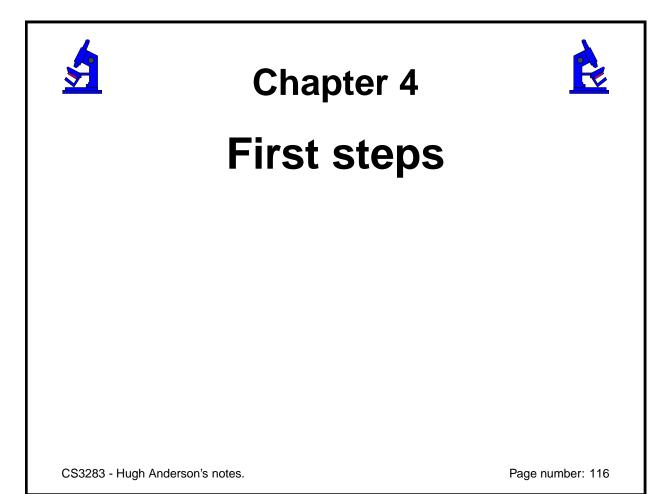


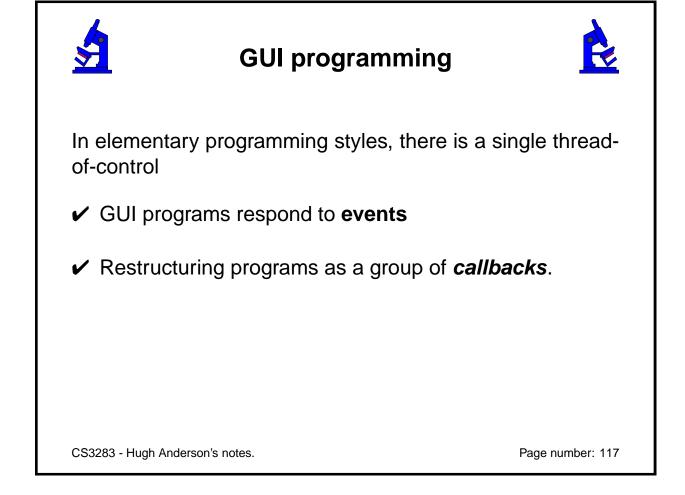




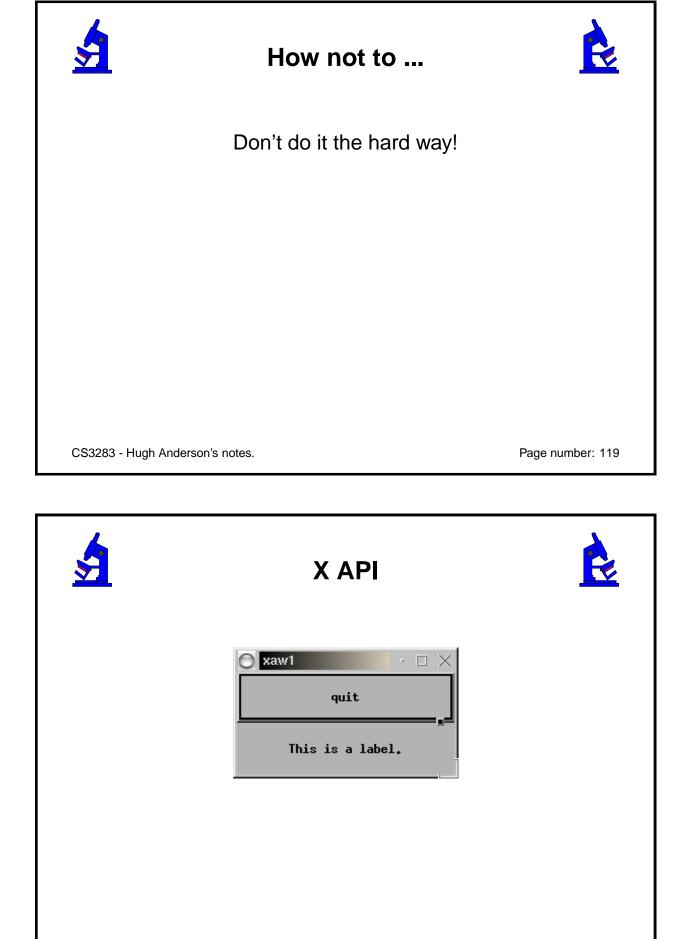
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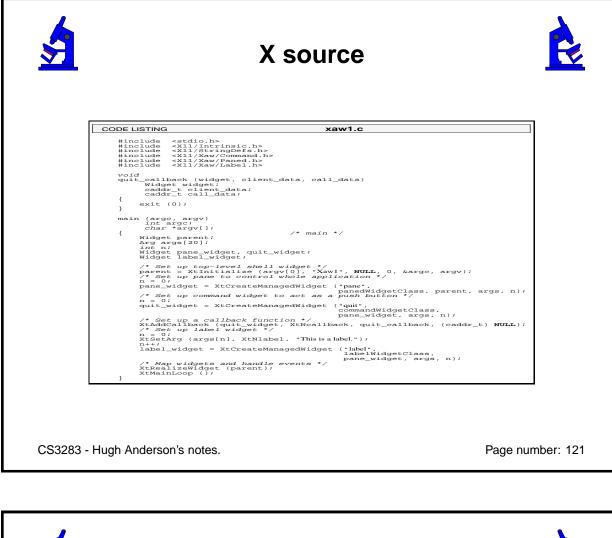




		GUI mainline	
]	CODE LISTING	GUICode.c	
	#include <any gui="" he<="" td=""><td></td><td></td></any>		
	<i>int</i> main ()		
	{ RegisterAllCallb	acks ();	
	LoopForever (); }		
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CS3283 - Hugh Anderson's notes.



	X compilation	È
	gcc -o xawl xawl.c -lXt -lXaw	
CS3283 - Hugh	Anderson's notes.	Page number: 122

<u>~</u>

Win32 API



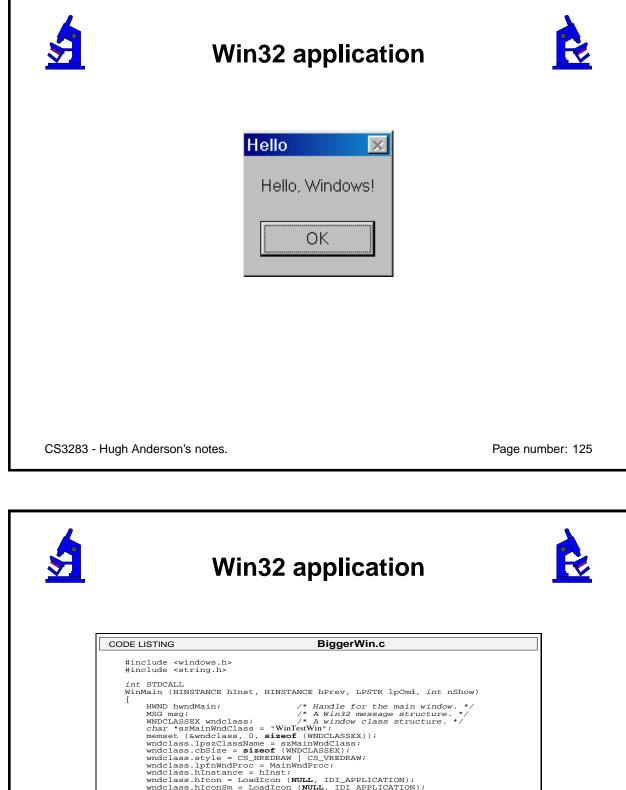
CODE LISTING

SimpleWin32.c

#include <windows.h>
int STDCALL
WinMain (HINSTANCE hInst, HINSTANCE hPrev, LPSTR lpCmd, int nShow)
{
 MessageBox (NULL, "Hello, Windows!", "Hello", MB_OK);
 return 0;
}

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	Win32 compilation	
	gcc -oSimpleWin32 SimpleWin32.c -mwindows	
CS3283 - Hugh Anderson's notes. Page number: 12		Page number: 124



return msg.wParam;

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Win32 application



The full source code and a makefile is available at http://www.comp.nus.edu.sg/~cs3283/ftp/generic.tgz.

CS3283 - Hugh Anderson's notes.

	Win32 application	
	Generic Windows 95 application Elle Help Qontents About	
CS3283 - Hugh Anderson's not	es.	Page number: 128

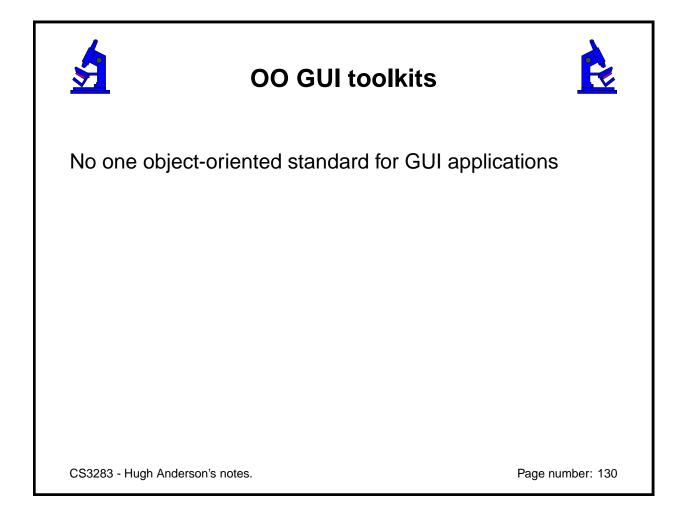


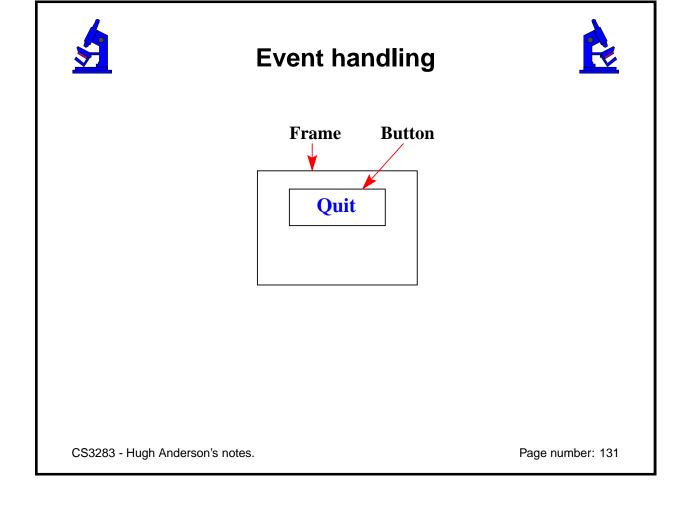
Win32 programming

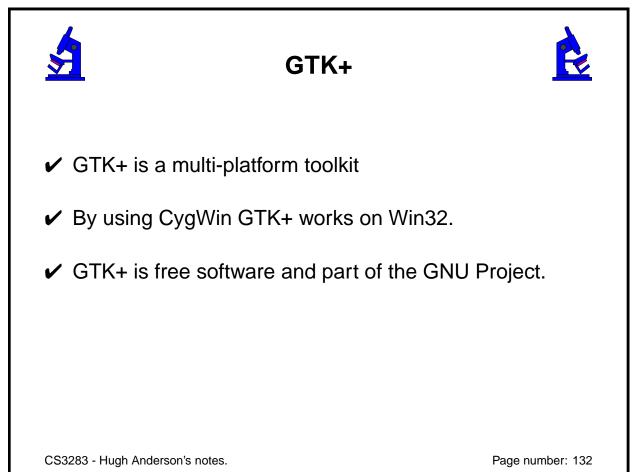


Interesting tutorial at http://www.winprog.org/tutorial.

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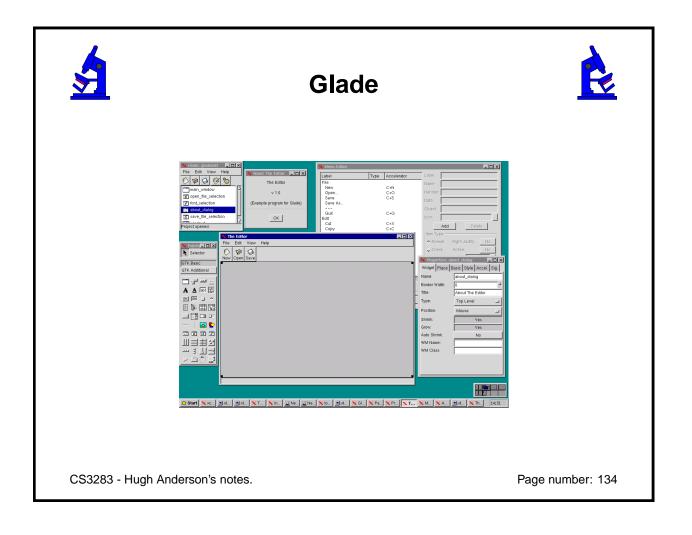
GTK+

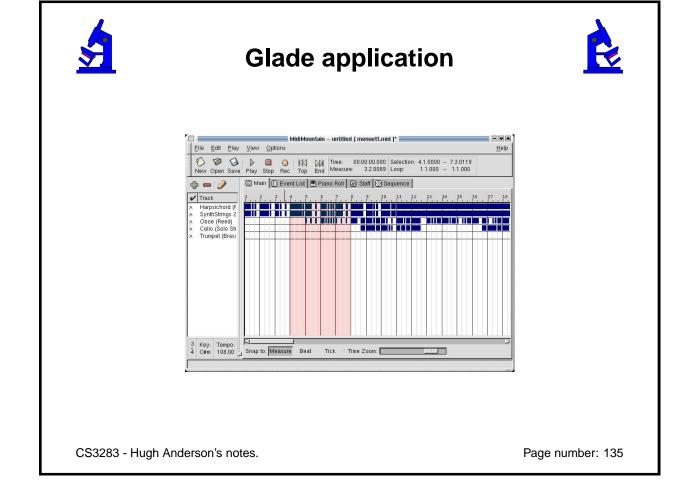


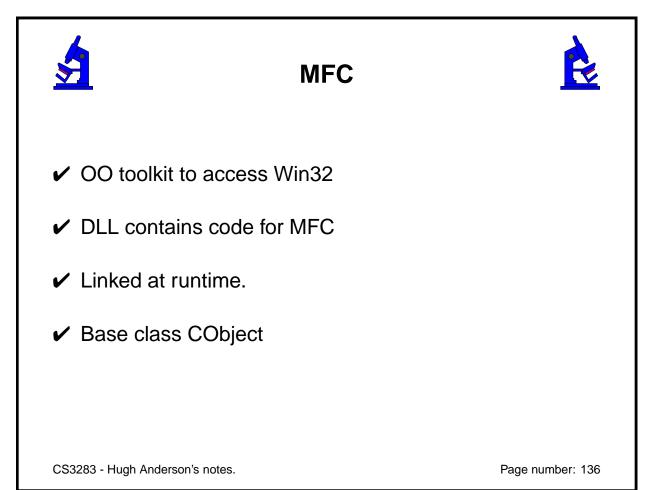
GTK+ has an object-oriented architecture with component libraries:

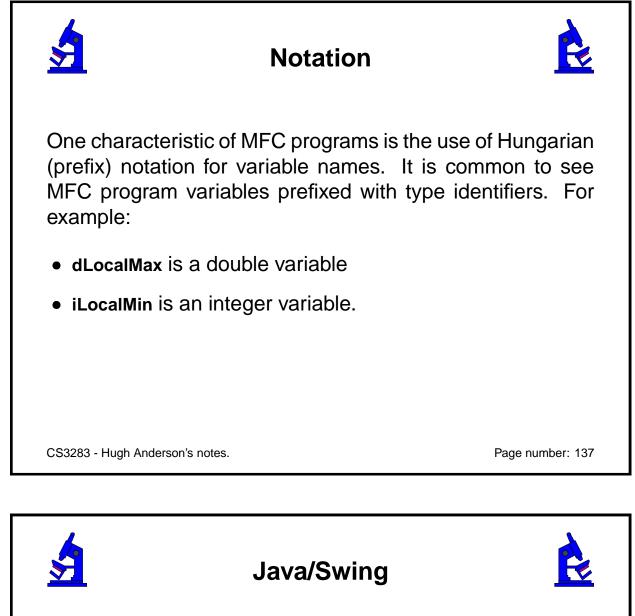
- GDK A wrapper for low-level windowing functions.
- GTK An advanced widget set.

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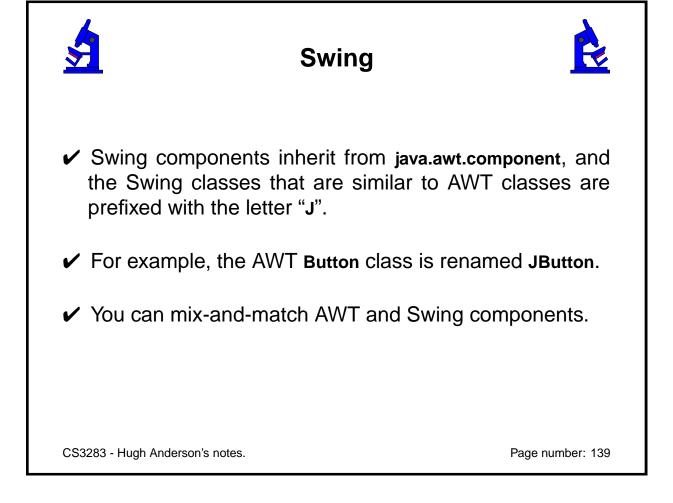


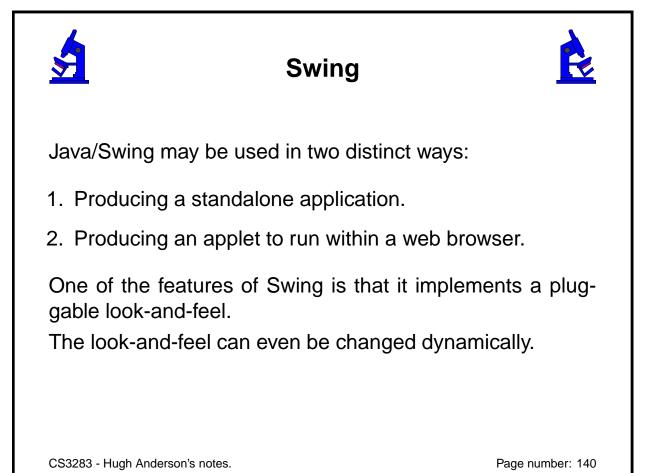






- ✓ Originally the graphical toolkit for Java was AWT, the <u>Abstract Windowing Toolkit</u>.
- ✓ It is fairly primitive, and the new Swing toolkit provides much more functionality.
- ✔ AWT is native code, with a Java API, but Swing is implemented on-top-of AWT.







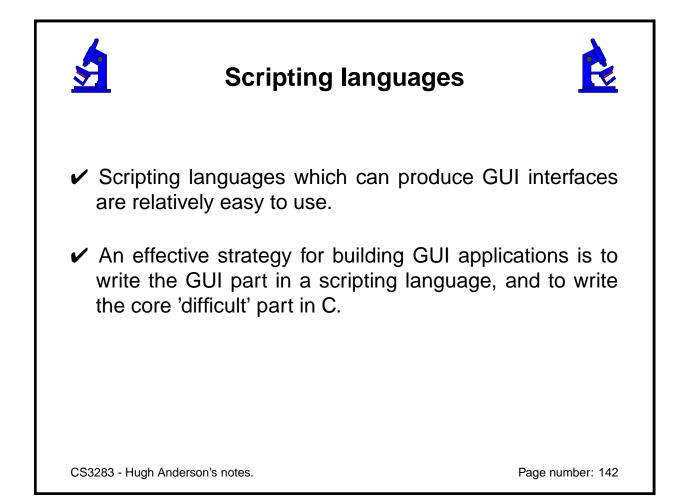


Categories:

- Server-side dynamic pages
- Server-side scripting
- Client-side scripting
- Client-side applets

We will look at some of these methods later in the course.

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Summary of topics



In this module, we introduced the following topics:

- Programming styles to avoid
- Event driven architectures
- OO toolkits
- Web-based systems
- Scripting languages

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