



ARCADE

Duration: 5 weeks

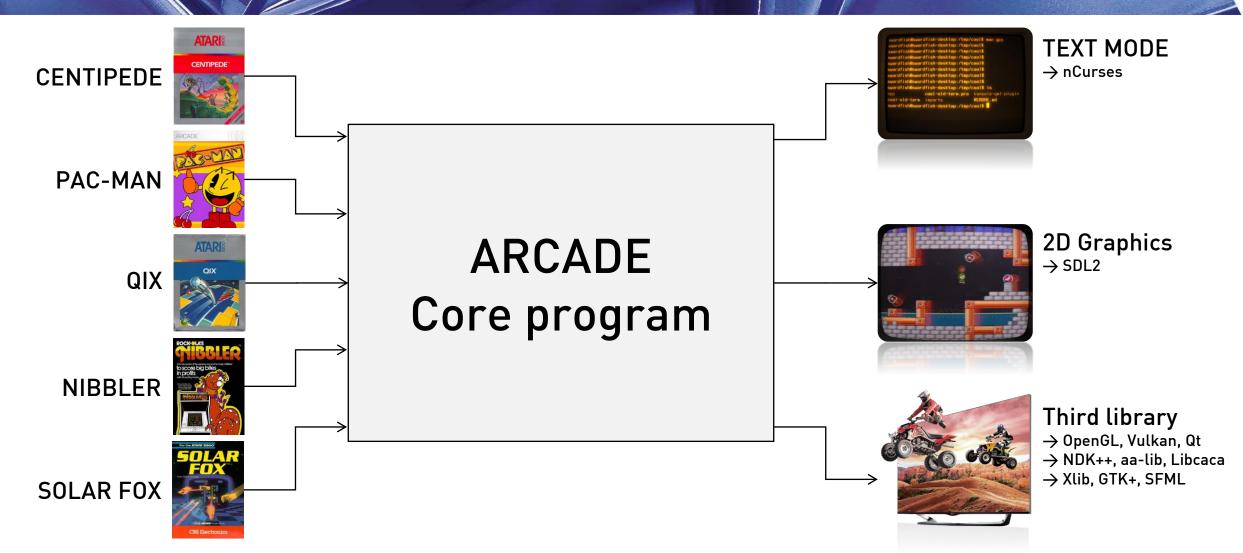
Group size: 2-3 students

Language: C++

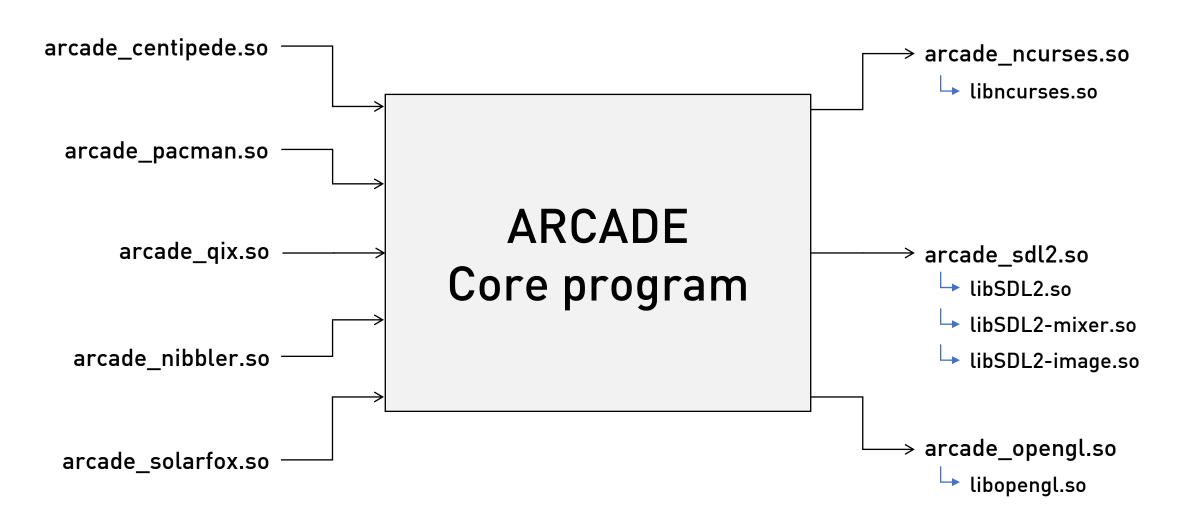
« How to play to any game on any graphic environment »



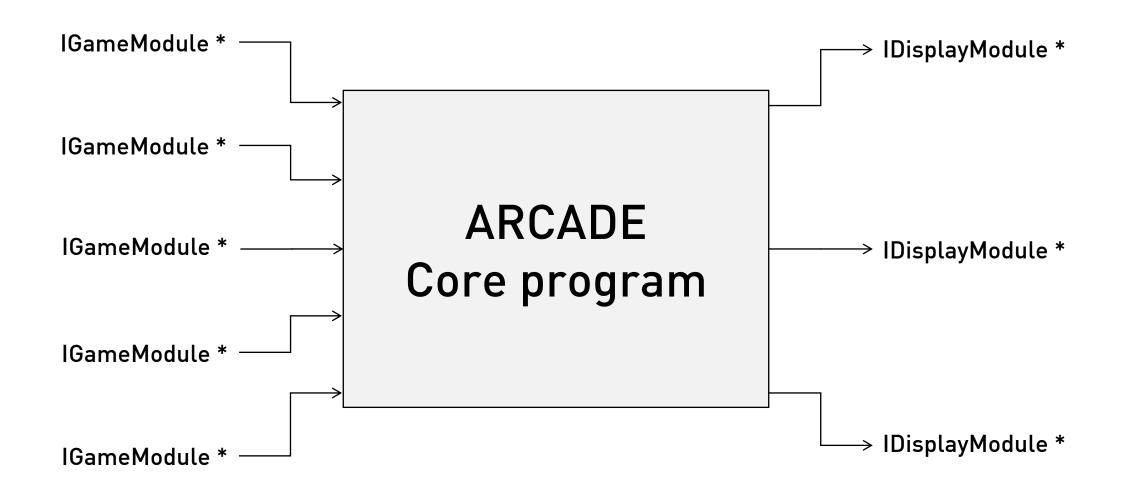












DYNAMIC LINKING LIBRARY 1ibdl

- void *dlopen(const char *filename, int flag):
 - load the library in process memory
 - call its constructor (optionnal)
 - return a handle (void *)
- void *dlsym(void *handle, const char *symbol):
 - find a symbol by its name in the library
 - return a pointer to the symbol
- void *dlclose(void *handle):
 - close the library
 - call its destructor (optionnal)

DYNAMIC LINKING LIBRARY 1ibdl

Use a common symbol name in your library as an entry point :

libdl is a C library, you <u>must</u> provide an encapsulation.

GAME & GRAPHIC CLASS INTERFACE

- Define an interface that could handle any of your games :
 - Should it contains the game loop?
 - Should it manage inputs ?
 - Should it be linked in any way to a graphic library?
- Define an interface that could handle any graphic library :
 - Is it in charge of the input management?
 - Should support Ncurses as well as OpenGL.
 - Should we handle advanced graphics for our simple games ?
- Create a core program (Arcade) :
 - Should be able to run any game with any graphic library.
 - Should transmit the informations from one to another.
 - Should not be dynamically linked to any game/graphic library.

class IGameModule;

class IDisplayModule;

GAME & GRAPHIC CLASS INTERFACE

- Conception:
 - Design your interfaces with <u>at least</u> one other group.
 - Debate and discuss your interfaces.
 - You must provide a documentation.
- Implementation :
 - Each group should implement its own games and graphic libraries.
 - You should be able to run your core program with the libraries from at least one other group.
 - Enjoy yourself!

