

Advanced
Multimedia
Development (AMMD)

H

2004





#### Introduction

- Welcome
- Expectations
- Compulsory Textbook
- Subject Websites
- Defining the Subject
- Lesson Structure
- Projects & Assessment
- Intro to Flash MX2004, ActionScript
- Intro to Game Programming



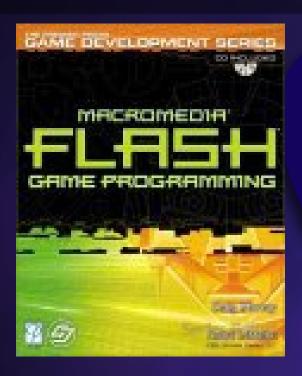


#### **Expectations**

- Attitude, maturity & responsibility
- Learn fast
- Being resourceful & read the textbook
- Take notes
- Two way Learning



# **Compulsory Textbook**

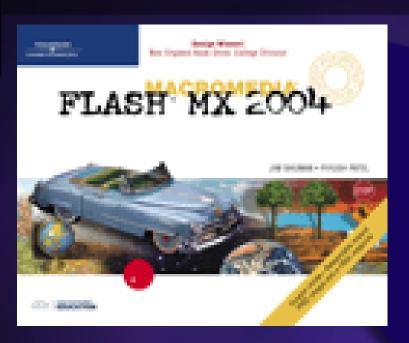


#### **Macromedia Flash MX 2004 Game Programming**

Craig S. Murray, Justin Everett-Church (2004) Boston, Massachusetts. Premier Press



# **Compulsory Textbook**



Macromedia Flash MX 2004 - Design Professional

Jim Shuman, Piyush Patel (2004)
Boston, Massachusetts. Thomson Course Technology



#### What You need to invest ....





= \$59.50 (recommended)



= \$32.90 (must buy), week 4 to 15



= \$34.50 (good to have), week 1 to 5





#### What You need to invest ....

ZIP Disk for IT3-5-53

Ear Phone (for all labs)



#### Subject Websites

There are 2 types of subject websites you can access to get your weekly materials.

Intranet (main website, latest info) (Accessible ONLY from school)

http://it-idmstud/subjects/AMMD2004

✓ Internet

(Accessible from both home & school)

http://ole-bb.tp.edu.sg





# **Teaching Methodology**

- Having fun, helps self-motivation
- Project and workshop driven
- Asking questions
- Learning new things by trying new things
- Taking risk and experimentation
- Learn to think!!



# A

#### AMMD is not about ...

- Software
- Finger pushers
- Experts in Flash MX2004
- Animation



#### It is about ....

- Multimedia (Macromedia Tools)
- Interactivity (Flash MX2004)
- Programming (ActionScript 2.0)
- Problem Solving (Common Sense)





#### **Lesson Structure**

Lecture – 1 hr per week

Tutorial – 1 hr per week

Practical – 3 hrs per week





### Projects & Assessment

- Project 1 Trailer Park Movie, Week 5 (20%)
- Term Test (20%)
- Project 2 Prototype, Week 11 (20%)
- Project 2 Final Submission, Week 14 (40%)

Random Lecture Short Tests (maximum 3% each), marks will be distributed to projects.

Show projects (past students).



#### **Submission of Projects**

Submission => during lab sessions

Venue: Normally in the lab





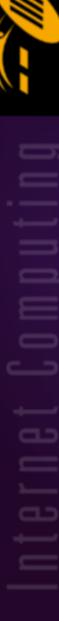
Late and < 1 day</li>15% deduction

• Late > = 1 and < 2days : 30% deduction

• Late > = 2 days

: Subject Team to decide on further penalty deduction amount.

("Day" mentioned here **INCLUDES** non-working days)





#### Classroom Management

- Attendance is compulsory for All Tutorials & Lab Sessions.
- 15 minutes late is recorded as 1 absence
- 2 Absences (lab or tut) 1st warning letter
- 5 Absences (total) Debar





- Macromedia Flash MX2004
- Program allows to create interactive experiences, primarily by using animations
- Mainly for web
- Has excellent drawing tools
- Has tools for interactive controls

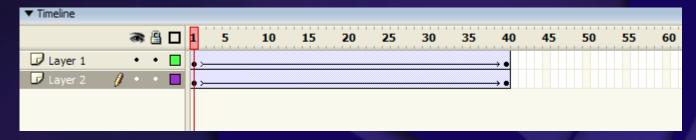


- Use mainly vector images (small file size)
- Vector images are scalable (can be resized and reshaped without distortion.
- Flash provides for streaming content
- Playing while downloading



- Stage
- Timeline
- Panels Library



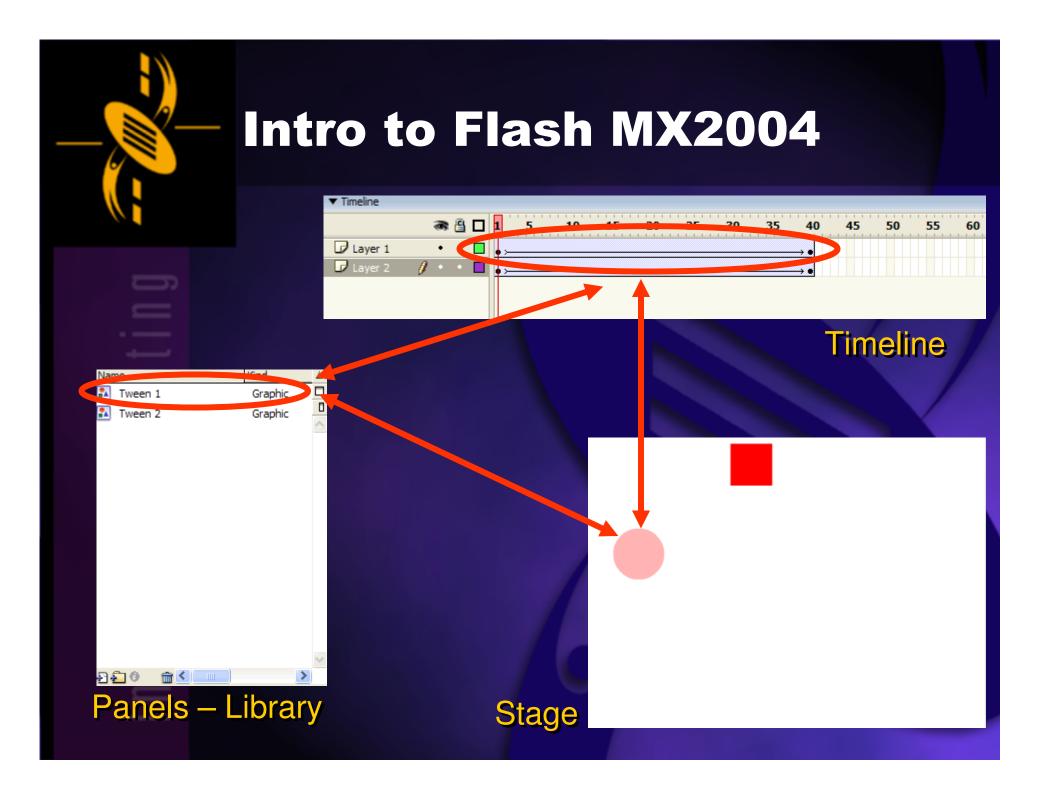


# Name Tween 1 Graphic Tween 2 Graphic

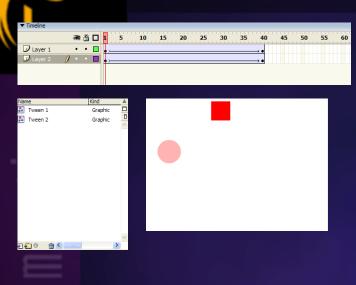
Panels – Library



Stage



#### 2 Ways to Develop Flash Movie



Visual Tools

Authoring Tools

Usually a combination of both

ActionScript Programming





#### Intro to ActionScript 2.0

Our goal of creating video games require more power than authoring tools provides

ActionScript has 2 versions

- ActionScript 1.0
- ActionScript 2.0

ActionScript 2.0 addes case sensitivity

More compile-time checks with classes





#### Intro to ActionScript 2.0

ActionScript is based on ECMAScript Standard (ECMA-262)

ECMAScript standard is based on C++ syntax.

JavaScript is also based on ECMA-262.

You will find transition easy.



#### **Game Programming**

- Game Programming with ActionScript 2.0
- Just a introduction

Game programming is not about just "programming".

Surprise! It is more than programming.





#### **Creating a Game**

- 1. Dream up a game idea
- 2. Write a design document
- 3. Obtain art
- 4. Implement
- 5. Test and debug
- 6. E-mail your friends a URL

This subject is a introduction.

Spends more time on items 3, 4



#### Conclusion

AMMD is a "tough" subject, BUT it can be really fun!

So ... Lets Have Fun!