

# **FACULTY OF ENGINEERING & TECHNOLOGY**

# BCS -504 Computer Graphics & Multimedia

Lecture-40

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#### **OUTLINE**

- > 2D ANIMATION SOFTWARE
- > ANIMATE CC (FORMERLY FLASH)
- > TOON BOOM HARMONY
- > TVPAINT
- > CHARACTER ANIMATOR
- > AFTER EFFECTS



#### **2D Animation Software**

2D animation is **a great place to start** your animation journey. Most of the programs below are inexpensive and relatively easy to learn.

Animate CC and After Effects are great choices for playing around with 2D animation in both a hand-drawn form or by creating puppets, while Character Animator doesn't require any drawing at all, and uses your face as the driver for the animation. And if you wanna go pro, Toon Boom Harmony and TVPaint will be your best options.

**Animate CC (Formerly Flash)** 

Probably the most popular 2D animation software out there. Animate has a long lineage of

animation making, dating back to the early days of internet video publishing. Its intuitive

interface and relatively cheap price point make it a great pick for getting started with 2D

animation.

Read: Toon Boom Harmony vs. Flash (Animate)

Price: \$20.99/Month

### **Toon Boom Harmony**

Hamony is a more advanced 2D software ideal for both frame-by-frame animation and rig-based animation.

It has advanced rigging systems, effects and camera tools. It is vector based, but the more advanced

version also has the option for bitmap drawing.

Read: Toon Boom Harmony vs. Flash (Animate)

Price: \$24/Month

#### **TVPaint**

A french animation software, TVPaint is the **all-in-one 2D animation software you'll ever need.** It's definitely more robust and complex than Photoshop, but it's also much pricier. This software is for professional animators and studios.

**Price:** €500 (€250 for students)



#### **Character Animator**

A newer animation program with an interesting twist. Instead of animating the traditional way, Character Animator uses you use your web-cam and microphone to **automatically animate** a pre-built character in real-time, almost like **motion-capture**. This is a great option for beginners since it requires the least amount of animation experience.

Price: \$20.99/Month

#### **After Effects**

An interesting choice for 2D animation. After effects gives you great control when <u>creating rigs</u> for 2D using the puppet tool and different expressions. It's **a good choice** if you're already comfortable with the Adobe environment.

Price: \$20.99/Month



# **Multiple Choice Question**

#### **MUTIPLE CHOICE QUESTIONS:**

| Sr no | Question   | Option A              | Option B                    | OptionC        | OptionD         |
|-------|--|-----------------------|-----------------------------|----------------|-----------------|
| 1     | Modeling and animation are loosely coupled.  Modeling describesand their actions.                | Graphics              | control digit               | control values | none of these   |
| 2     | Animation describes how to vary the  | control digit         | control<br>values           | Graphics       | All of<br>these |
| 3     | There are a number of animation techniques are   | User driven animation | Procedur<br>al<br>animation | driven         | All of these    |
|       | Kinematics describe the properties of shape and motion independent of physical forces that cause |                       |                             |                | 333333          |
| 4     |  | shape                 | motion                      | size           | scale           |
| _     | Keyframing is an where motion curves are   | animation             | animator                    |                | projector       |
| ວ     | interpolated through states at times   | technique             | technique                   | keyframing     | S               |

## **REFERENCES**

http://www.engppt.com/search/label/Computer%20Graphics

