



Welcome to Week 2

July 18, 2022

Digital Art

REMEMBER!!

Submit ALL of this week's challenges (or screen shots of them) to CODEfest@iechamilton.ca by Sunday, July 24 at noon for your chance to win

1 of 50 \$10 Gift Cards

or the

GRAND PRIZE of up to \$300 towards an online coding &/or technology related activity, camp, course or subscription (subject to approval).

Have you wondered how digital ads, drawings, or animations are made? What about shows and special effects you see on TV? Digital Art is a range of artistic works and practices that use digital technology as part of the creative process. Some of the first digital art works were created in the 1960s and were also called computer art or multimedia art. Today, you may also hear it referred to as new media art.

Careers in digital art might be Visual, Graphic, or UX/UI Designer, Digital Artist, Marketing Specialist, or Animator. It continues to be a rapidly-growing but very competitive field to enter. You will want to make sure you have a fantastic portfolio as well as keep up-to-date on the various technologies. Salaries for this field can start around \$46,000 yearly. The salary tends to jump about \$5 an hour for every 2-3 years of experience, with 3D artists being well sought-after and experienced workers making up to \$81,000 per year. If you can make digital art AND do programming, you'll find yourself on a higher pay scale.

There are many programs at Mohawk College that can help lead you to a career in Digital Art.

[Art & Design Foundations - 270](#) - 1 Year Certificate

[Advertising and Marketing Communications Management - 652](#) - 3 Year Advanced Diploma

[Animation 3D - 373](#) - 3 Year Advanced Diploma

[Broadcasting - Television and Communications Media - 651](#) - 3 Year Advanced Diploma

[Communications Media Practices - 266](#) - 1 Year Graduate Certificate

[Creative Arts Business - 387](#) - 1 Year Certificate

[Graphic Design - 508](#) - 3 Year Advanced Diploma

[Multimedia Storytelling - 388](#) - 1 Year Graduate Certificate

[Photography - Still and Motion - 378](#)—2 Year Diploma

[Pre-Media and Entertainment](#) - 1 Year Certificate

[Virtual Reality Multimedia Production - 656](#) - 1 Year Graduate Certificate

Watch videos about programs at Mohawk College, and student digital creations:

[Advertising & Marketing Communications Management Program](#)

[Animation](#) by Lavio Ribeiro Fidelis Neto

[Animation Program](#) - a CHCH TV interview with Mohawk College Professors

[Graphic Design](#) by Sarah Bullard

[What You'll Love](#) - Broadcasting – Television and Communications Media

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Challenge!

This week, we are heading to Tynker and Hour of Code's [Spin Draw tutorial](#). We will also be exploring CodeHS Editor's video tutorial [Creating Graphics with Tracy](#), followed by your creativity in the Editor!

To be entered to win one of the prizes this week, you will need to complete and submit the following:

- [Spin Draw](#) Tutorial
 - Share screenshots of each of the three steps as shown below on page 3).
 - Share your very own one-of-a-kind creation.
- [Creating Graphics with Tracy](#) Tutorial
 - Be creative and use letters of your choosing.
 - Share screenshots of the code and image for your:
 - First Letter
 - Bubble Letter
 - Coloured Letter
 - Fancy Letter
 - Try your name! (Your choice of style)

Tips:

- Find our example challenges and projects on the next few pages.
- BE CREATIVE!!
- Remember to send the save file from your completed works via email to submit for prizes!
- If you are struggling, CODEfest Camp Mentors can help! Email CODEfest@iechamilton.ca.

Send your completed exercises to CODEfest@iechamilton.ca.

Make sure you include your full name!

Prize winners will be contacted next week via information provided at registration.

If you are interested in exploring Digital Art with Code further,
follow these links:

[Pixar in a Box](#), [Screen Saver](#), [Animated Logo](#), and [Design Your Own Typeface](#)

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Challenge 1- Spin Draw:

Step 1:

```

on start
  forever
    go to mouse-pointer
    if mouse down? then
      stamp
      turn 5 degrees
      wait 0.0001 secs
  
```

Step 2:

```

on start
  set size to 20 %
  switch to costume Pink Ball
  
```

Step 3:

```

when space pressed
  next costume

when up arrow pressed
  change size by 10 %

when down arrow pressed
  change size by -10 %
  
```

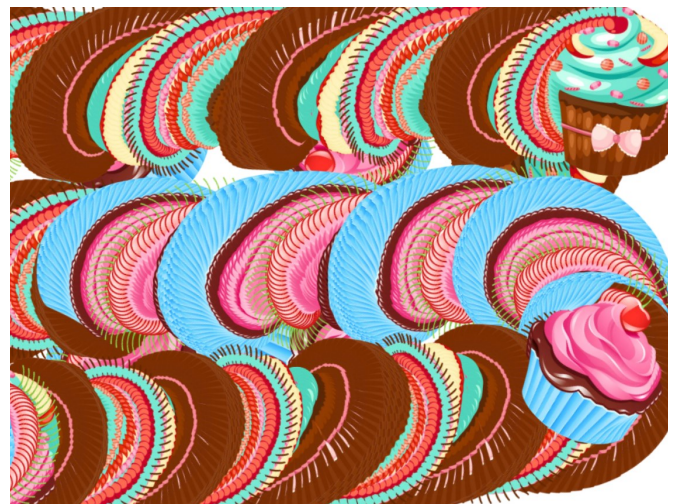
Step 4: One-of-a-Kind Creation

```

on start
  forever
    go to mouse-pointer
    if mouse down? then
      stamp
      turn 5 degrees
      wait 0.0001 secs
  
```

```

on start
  forever
    set size to 50 %
    wait 5 secs
    switch to costume Cupcake
    wait 5 secs
    switch to costume Cupcakes 2
  
```



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Challenge 2: Creating Graphics with Tracy

First Letter:

```
1
2 penup()
3 right(90)
4 forward(150)
5 right(90)
6 forward(100)
7
8 right(90)
9 pendown()
10 forward(200)
11 right(135)
12 forward(100)
13
14 left(90)
15 forward(100)
16
17 right(135)
18 forward(200)
```

Bubble Letter:

```
6 Draw a Bubble Letter!
1 penup()
2 backward(100)
3 left(90)
4 forward(100)
5 left(180)
6 pendown()
7 forward(200)
8 left(90)
9 forward(150)
10 left(90)
11 forward(50)
12 left(90)
13 forward(100)
14 right(90)
15 forward(150)
16 left(90)
17 forward(50)
```

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Challenge 2 cont'd: [Creating Graphics with Tracy](#)

Coloured Letter:

9 Color Your Letter!
Submit + Continue Fork Save

```

1 color("dark blue")
2 penup()
3 backward(100)
4 left(90)
5 forward(100)
6 left(180)
7 begin_fill()
8 pendown()
9 forward(200)
10 left(90)
11 forward(150)
12 left(90)
13 forward(50)
14 left(90)
15 forward(100)
16 right(90)
17 forward(150)
18 left(90)
19 forward(50)
20 end_fill()
```

Output Docs Exercise Help More

Run Clear

Fancy Letter:

14 Fancy Letter 'a'
Next Fork Save

```

1 speed(0)
2 penup()
3 setposition(-200, -200)
4 pendown()
5 begin_fill()
6 color("red")
7 forward(400)
8 left(90)
9 forward(400)
10 left(90)
11 forward(400)
12 left(90)
13 forward(400)
14 left(90)
15 end_fill()
16 penup()
17 color("orange")
18 setposition(85, -160)
19 pendown()
20 begin_fill()
21 forward(50)
22 left(90)
23 forward(200)
24 circle(130, 180)
```

Output Docs Example Help More

Run Clear

Finish My Hour Of Code >

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