



**Art Ambassador**



As designed by:

**Markus Persson**

# MINECRAFT

by Teri Allart



# Markus “Notch” Persson

- ❑ Born in Stockholm Sweden and began programming at the age of 7.
- ❑ He founded the video game company “Mojang”, with Carl Manneh and Jakob Porser in 2010.
- ❑ They released the **MINECRAFT** full version, on November 18, 2011.
  - It’s the 2nd best selling video game of all time (Tetris is #1).
  - Players start out in an empty virtual space where they use Lego-like blocks and bricks to build whatever players can think up.
  - As of 2016, over 106 million copies have sold across all platforms and it has grossed more than \$700 million.
- ❑ In 2014, Markus sold it all to Microsoft for \$2.5 billion and currently lives in Beverly Hills, California in this amazing home on the Pacific Ocean.



## “Sandbox” Construction Game

(you can roam freely around the world)



**You place and break blocks in a  
3 dimensional world**

In “Survival mode” you’re on  
a Scavenger Hunt !



Music & Sound effects produced by

**Daniel Rosenfeld**

(German Sound Designer)

- A non-lyrical, ambient music
- Best video game soundtrack in 2011



Cody Sumter, member of “Human Dynamics”  
group at MIT Media Lab said...

**“Notch (Markus) hasn’t just built a game.  
He’s tricked 40 million people into  
learning to use a CADD program.”**

Computer Aided Design & Drafting, a software  
used by Engineers and many other professionals.





Inventory Screen:



Crafting Table Screen:



# WHY IS MINECRAFT SO POPULAR?

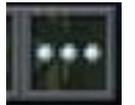
You're in a world that you can play in all directions and explore everything around you. You are free to roam wherever you want, it's all your choice.

You can build anything you dream! It's all interactive and nothing is out of your reach. You can play local or on line with other players.

- MINE, CRAFT and CREATE by just PUNCHING something.
- TRY PROGRAMMING to control the game by making your own "mods."
- TOOLS ARE VERY IMPORTANT TO THE GAME; axes (faster than your fist), pick-axes (break rocks faster) and shovels (dig faster).

## INVENTORY SCREEN:

From your main screen, CLICK the icon with (3) asterisk (far right on tool bar) and this will bring up all of your available resources on an "Inventory" screen.



## CRAFTING TABLE SCREEN:

Now look for the "Tool Box" icon, CLICK it and you'll get to the "Crafting Table." This is where you can use "recipes" to craft and create different items for use in your world.

• All of your resources are shown that are available for crafting and creating.

• Minecraft 'RECIPES' can be found on the internet or in books that offer hints and suggestions. For example, recipe for a pick axe is (2) sticks + (3) planks.





Children and Adult Gamers are obsessed! They've spent hundreds of hours creating replicas of the White House, Starship Enterprise and amazing pieces of architecture.

1. **Creative Mode:** It's like playing with Legos on a screen. You can fly around... now take your time and explore your world!



Your first shelter might look like this!

- You have unlimited amounts of blocks, items and all resources.
- You can create, build and destroy structures easily.
- You don't have to worry about health or hunger.
- All your tools are ready and available for you.
- You can make animals easily from eggs and they have real life cycles.
- Try building a shelter for yourself or a fence for your animals to protect them from wolves.
- Monsters can't harm you and you can even create some if you want.



2. **Adventure Mode:** Many believe this is the game's most amazing feature. It allows other players to interact with your creations and you can explore other player's maps and adventures. Some interaction is allowed on others creations, but you can't destroy or place any blocks.
3. **Spectator Mode:** Get to fly around and watch without interacting.
4. **Demo Mode:** Allows you to try the Minecraft game without buying it (PC only). Up to 100 minutes and you can re-set and play again.

# MINECRAFT

**(6) MODES of PLAY:**

**Creative, Adventure, Spectator, Demo, Survival and Hardcore**



## Health bar



## Food bar

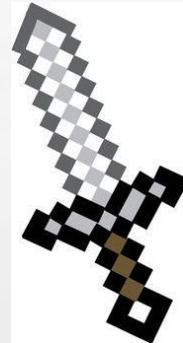
Have to catch that piggy!



## Mining Tool or Hand

## 5. Survival Mode

The secret to surviving is having a steady supply of food AND staying safe from monsters.



- collect **LOTS** of resources
- create your tools and weapons
- build a house quickly if you can't find a village
- monsters come at night, but they are afraid of a light
- you need to create armor to protect yourself
- you can be killed, but you "spawn" at night and are given another life
- manage hunger by hunting animals
- trade with Villagers but you'll also have to battle mobs
- kill monsters; spiders, skeletons, creepers and zombies

## 6. Hardcore Mode

Similar to survival, but harder and your world will be deleted upon your permanent death at the end.

# MINECRAFT

(6) MODES of PLAY:

Creative, Survival, Hardcore, Adventure, Spectator and Demo

# PIXELS: means a "Picture Element"

- On a computer or any digital device, a graphic image is typically broken down into smaller dots or squares called "pixels".
- Minecraft uses "pixels" in a square form to create all of its legendary characters. Below are just a few favorites:

## CHARACTER SKINS:



## MONSTERS:



<http://minecraft.gamepedia.com/Skin>

[http://vsbattles.wikia.com/wiki/Skeleton\\_\(Minecraft\)](http://vsbattles.wikia.com/wiki/Skeleton_(Minecraft))

<http://www.minecraftforum.net/forums/minecraft-discussion/discussion/2481909-minecraft-gender>

<http://aminoapps.com/page/video-games/4265475/minecraft-alex-myth>

# MINECRAFT

<http://vignette1.wikia.nocookie.net/minecraft/images/8/84/Spider.png/revision/latest?cb=20121121015951>

<http://minecraft.gamepedia.com/Zombie>

## Art Ambassador Project:



# ART + MATH = “Fractional Me”

by Amanda from the Teaching Thief

- ❑ You will create a self portrait out of pixels (squares).
- ❑ Then you will figure out your fractional amounts (based on color) on the “Fractional Me” worksheet.

### You will receive:

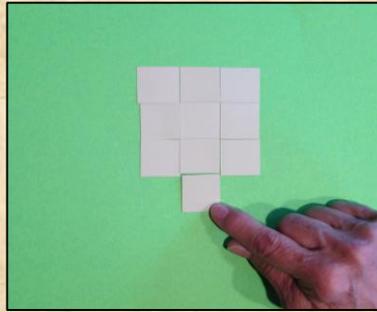
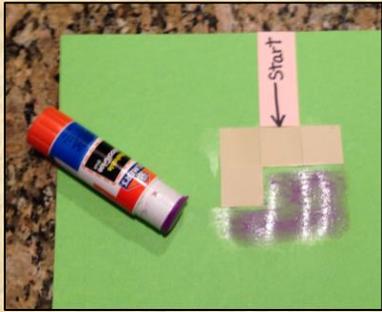
- Lots of squares in many different colors
- (1) Large piece of background paper
- (1) set of jiggly eyes
- (1) “Fractional Me” Worksheet; to figure out your fractions by **COLOR**

### You will need:

- glue stick
- pencil
- and math skills as taught by your awesome Teacher!



Markus “Notch” Persson, the creator of Minecraft, in pixel art:

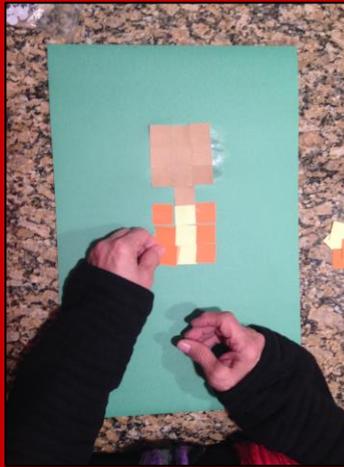


## STEP 1: Create your face & neck

1. Write your name on bottom left of your paper.
2. Pick out (10) squares that best represent your skin tone; nine for your face, one for your neck.

**HINT:** for this project, it's easier if you glue area first, then add your squares.

- To help you start... place the pink guide (see photo) at the top of your paper in the center. Could also use a small glue stick to help you measure down the 3" from the top.
- Use your pencil to make a small dot on your paper. This is where your first square will go.
- Your face should be a minimum of (9) squares; 3-rows with each row having 3-squares.
- (1) square is for your neck.



## STEP 2:



## CREATE middle of your SHIRT:

We're going to make just the main part of the shirt first.

- Pick out (9) squares to create a shirt (similar to how you created your face). Make (3) rows of (3).
- Use any colors you like from the bowl of colored squares.
- Please do not use the skin tones for your shirt.

## Think about SLEEVES for your shirt:

Do you want SHORT or LONG sleeves, maybe NONE!

- Based on your choice, pick some colored squares and glue them down. Please don't use skin tones.

## Are your ARMS showing? YOU need HANDS!

- Grab a few more squares that match your skin tone, and use them to make your arms (if showing) and hands.

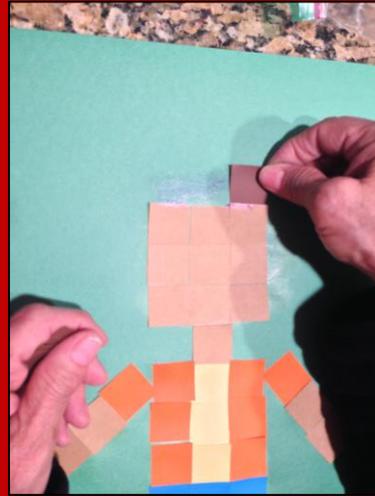
**Art Ambassador: ART + MATH = "Fractional Me"**



### **STEP 3: Create your lower half**

Decide if you want pants, shorts, skirt or a dress **AND** remember you need shoes!

1. Glue where you want your squares to go **FIRST**, then stick them down.
2. Get more squares that are your skin tone, if your legs are showing.
3. Be sure to add shoes!



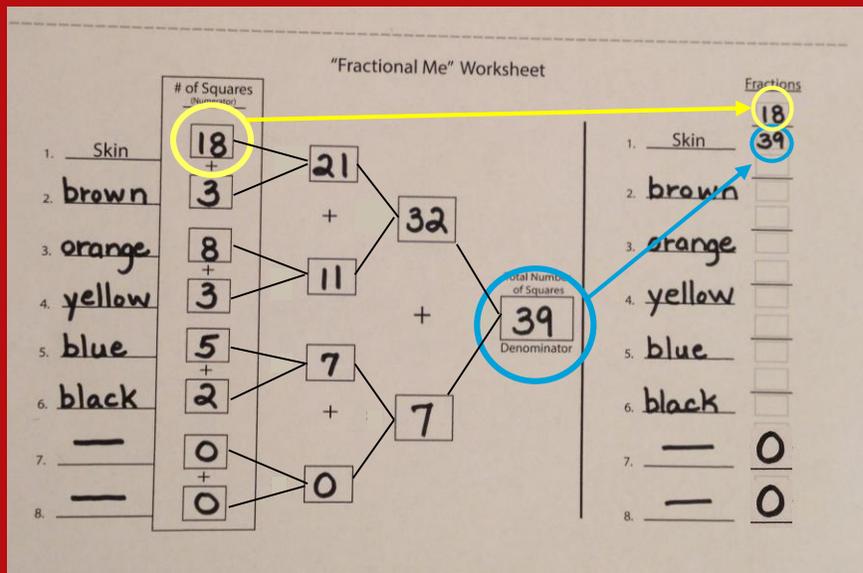
### **STEP 4: Create the details of your face**

1. Pick out some squares that best represent your hair color.
2. Glue the area first, and then stick the "hair" squares down.
3. Glue down (2) jiggly eyes.
4. Use your pencil to draw a smile on your face!

**Art Ambassador: ART + MATH = "Fractional Me"**



Your name



## STEP 5: LEFT SIDE of WORKSHEET

1. Get the "Fractional Me" worksheet + a pencil.
2. Write down each color you used. We already started your list, by writing down "skin" tone.
3. Count one color at a time and write that number in the box next to the color. These are your NUMERATORS (number above fraction line). If there are blank spaces, draw a line and write a zero in the box. See photo above.
4. Add all your numbers (numerators) to get the TOTAL NUMBER of SQUARES used. Use the boxes shown to help you add. This TOTAL is your DENOMINATOR for this project (the number below the fraction line).

## STEP 6: RIGHT SIDE of WORKSHEET

### Creating Fractions

(a number that represents part of a whole)

1. You are going to create a fraction for EACH color using the **numerator** and the **denominator** from the LEFT side of your worksheet. The numerator goes above the fraction line and the "denominator" goes below the fraction line.
2. Write down each of your colors again on the RIGHT side of your worksheet. If you don't have a color, leave the space blank.

### 3. **EXAMPLE:** Creating the FRACTION for "skin" tone.

Take the **numerator** for "skin" tone (the number that tells us how many squares of "skin" tone you used) from the LEFT side of your worksheet and write it ABOVE the fraction line.

Take the **denominator** for "skin" (TOTAL NUMBER OF ALL the SQUARES you used) and write it BELOW the fraction line. For our project, the denominator will be the same number for each of your fractions because it's the total of all your squares.

4. Now create FRACTIONS for the rest of your COLORS. **Our project: we want fractions greater than ZERO.** **Any blank spaces, draw a line and write a zero in box.**



**You've just created yourself in fractions!**

# “Fractional Me” BONUS QUESTIONS

( on the backside of your WORKSHEET )

Use the **RIGHT** side of your WORKSHEET to answer the following:

1. Which of your fractions is the least?
2. Which of your fractions is the greatest?
3. Arrange your fractions from least to greatest.

Use your “Fractional Me” Pixel Art to answer the following:

4. What is the fraction for your clothing?
5. What is the fraction for your face? (DO NOT include your neck)
6. What is the fraction for your hair?

## TO COMPLETE YOUR PROJECT

1. Go to the front of your “Fractional Me” worksheet.
2. Take your glue stick and glue the entire area above the dotted line.
3. Carefully lower your Pixel Art on top of the glued area.



**Art Ambassador**