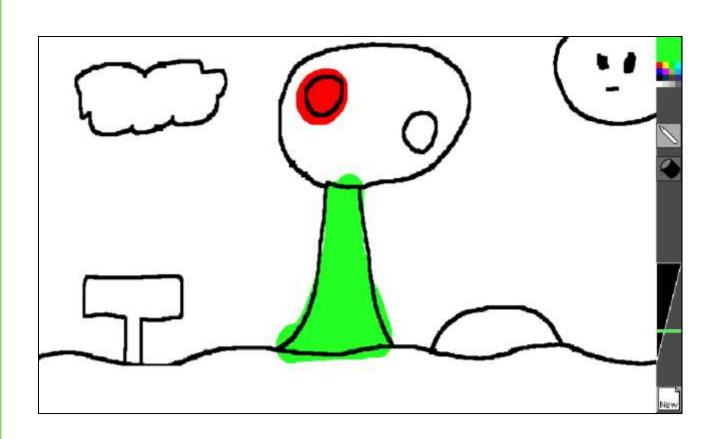
UNITYCODER.COM

MOBILE PAINT



Mobile Paint

Table of Contents

INTRODUCTION	2
FEATURES	2
LIMITATIONS	
REQUIREMENTS	
FILES IN THE PACKAGE	
USAGE INSTRUCTIONS	
KNOWN ISSUES	
	9
CHIDDADE Y. LEEDVACK	17

Mobile Paint

INTRODUCTION

Simple painting program, optimized for mobiles, supports multi-touch.

(Can be also used with mouse, code is just commented out)

FEATURES

- Optimized texture painting (much faster than SetPixels, using new 4.3+ features)
- Multi-touch support (paint simultaneously with many fingers)
- Works with Unity Indie & Pro
- Simple painting demoincluded (see also .apk demo download in the blog)
- Overlay texture on canvas
- Flood fill
- Palette image color picker
- Custom brushes

LIMITATIONS

- Cannot draw all the way on image borders
- Custom brush image is tilted (if you want it to be straight, make it as tilted image originally)
- Drawing fast movements with custom brush won't connect the lines as in pencil mode
- You will need to modify existing C#codes if want to add custom features
- Currently canvas image is just for display, it cannot be filled or painted

REQUIREMENTS

• Unity 4.5 or newer (indie or pro)

FILES IN THE PACKAGE

Files inside the "Mobile Paint/" folder:

FOLDER / FILE	INFO
/Documentation/release_notes.txt	Short notes about what is new/changed
/Documentation/ Mobile Paint.pdf	(This pdf)
/Materials/Brushes/*	Custom brush samples
/Materials/Mats/CanvasMaterial	Material for the drawing plane
/Materials/Mats/CanvasTextureMaterial	Canvas with texture mask (layer image)
/Materials/Mats/Shaders/canvas	Simple texture shader
/Materials/Mats/Shaders/canvasTexture	Simple texture shader, with mask image
/Materials/UI/*	Example GUITexture images & buttons
/Materials/Palettes/color_palette_sample1	Example color palette
	*Note: must have [x] read/write enabled
/Scenes/scene_MobilePaint	Example scene (try to build it on your device)
/Scripts/AdjustBrushSize	Example script for brush size
/Scripts/ClearButton	Example script for calling ClearImage()
/Scripts/CloseColorDialog	Closes the color dialog
/Scripts/ColorPicker	New color picker from palette guitexture
/Scripts/CustomBrushDialog	Opens modal brush "window"
/Scripts/CustomBrushPicker	Selection grid for custom brush picking
/Scripts/GUIScaler	Example script for scaling GUITextures based
	on device resolution
/Scripts/GetStartColor	Gets initial paintcolor for color preview
	guitextures
/Scripts/MobilePaint	Main script for drawing
/Scripts/PaletteDialog	Opens modal palette "window"
/Scripts/ToggleMode	Swaps between draw & flood fill modes

USAGE INSTRUCTIONS

$Getting\, started$

- Try building the included "scene_MobilePaint.scene" in your mobile device.

 Check performance (you can use this FPS counter: http://wiki.unity3d.com/index.php/FramesPerSecond)

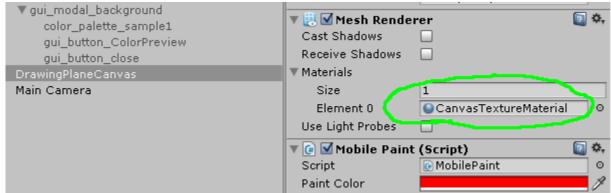
(usage instructions continued in the next page..)

Settings

- Select "DrawingPlaneCanvas" gameobject from Hierarchy
- MobilePaint script has few public variables:
 - o **Paint Color**: the initial color to paint with
 - Resolution Scaler: 1 = full resolution, 0.5 = half resolution (faster), 0.25 = quarter resolution (event more faster), and so on.
 - Brush Size : Initial brush size
 - Brush Size Min : Minimum brush size
 - o Brush Size Max: Maximum brush size
 - o **DrawMode**: 0=drawing, 1=flood fill
 - ScreenSizeAdjust: Leaves space for UI (default value is x=-32, y=0, that means, right side of the screen has -32 pixels removed from painting area. *This value is automatically scaled based on GUIScaler calculations, so in HD devices it would end up being more than -32px)
 *example: Original screen size 800x480, becomes: 768x480

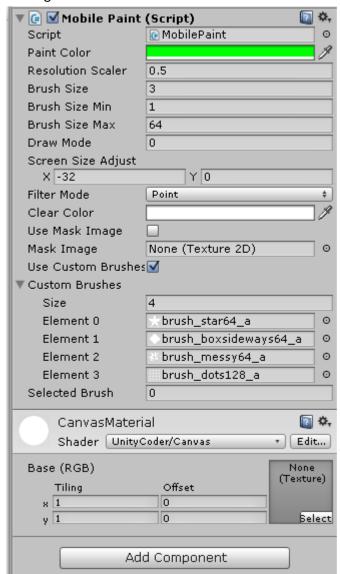


- o Filter Mode: Texture filter mode ("Point" is best & fastest)
- o Clear color: Color used for new image (clearing)
- O [] Use Mask Image: Should we assign mask/layer image?
- Mask image: Assign your image here (example included "sample_linedrawing1.png").
 *Note: You must assign "CanvasTextureMaterial" material to "DrawingPlaneCanvas" gameobject to use mask/layer image.



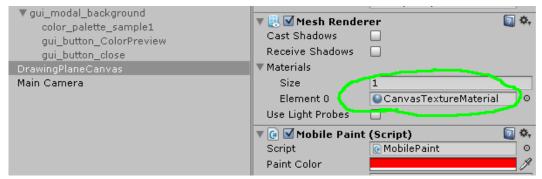
- o []UseCustomBrushes: Is custom brush tool enabled
- CustomBrushes: Array of custom brush images.
 - *Note: Read/write must be enabled for the texture (from importer settings)

- Settings view:

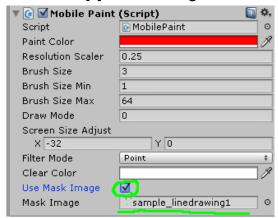


Using mask texture

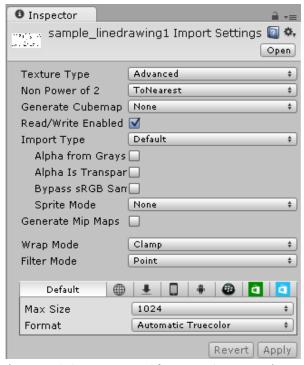
- Select "DrawingPlaneCanvas" gameobject from hierarchy
- Check that "CanvasTextureMaterial" is used on the mesh renderer:



- Then enable [x] Use Mask Image from "DrawingPlaneCanvas" gameojbect and assign mask image:



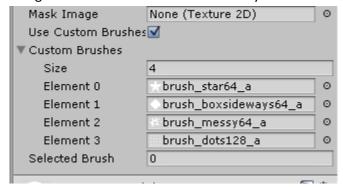
- *Note: Mask texture needs to have [x] Read/Write enabled from inspector:



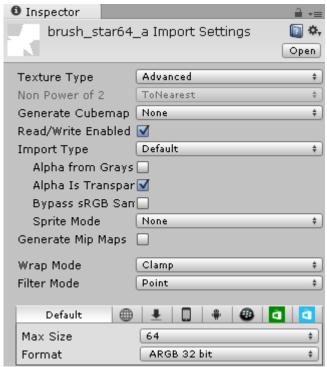
- *Note: Alpha is not used from mask texture (see example image at "Sample images/" folder)

Using custom brushes

- Enable [x] UseCustomBrushes from "DrawingPlaneCanvas" gameobject
- Assign textures into CustomBrushes array:



- Make use the textures have Read/Write enabled from import settings:



Other notes

- If you add your own GUITexture elements whichs are NOT meant to be clicked, set their layer as "Ignore raycast" (otherwise they would block the drawing raycast)

KNOWN ISSUES

Corners cannot be painted with a big brush (see screenshot below)
 Reason: for optimization reasons, clamping happens inside ClampBrushInt()



SUPPORT & FEEDBACK

Send comments / feedback & requests to my blog:

http://unitycoder.com/blog/2014/07/15/asset-store-mobile-paint/

*Unity asset store forum link will be added there later

Email: support@unitycoder.com

- Add product name: "Mobile Paint" to the subject
- Include Asset Store invoice number in the email
- Include screenshot(s) if something strange is happening (helps solving the problem)

Or, Using Unity3D forums private message:

http://forum.unity3d.com/members/mgear.22727/#info

*** also feel free to offer unity related fulltime jobs in .sg or .my or .uk ***