Frankston Photographic Club Inc.	Hints and Tips Cheat Sheet Frankston Photographic Club Photography is Our Passion
The Hints and Tips Cheat Sheets are a simple guide to a technique to help make your image taking and competition entries easier. **Plan >> Take >> Edit >> Print >> Submit >> Tell**	

Introduction

The image displayed in the matt board apertures **SHOULD BE THE SAME** as the image displayed on the projection screen during competition judging.

Comments from some judges suggest some points are deducted in competitions when a projected image appears to be different to the printed image.

Frankston Photographic Club can provide matt boards with **STANDARD** aperture cut outs to suit both A4 and A3 print sizes. **CUSTOM** matt boards are not usually available from the Frankston Photographic Club.

Also, some digital images submitted are too small to be properly displayed using the projector.

Options for sizing and matching images to matt board apertures

- You can size you image match the dimensions of the Frankston Photographic Club matt boards.
- You can get a new matt board and cut a custom aperture to match the width x height ratio of your camera sensor to improve workflow and resizing processes.
- You can get a new matt board and cut an aperture to a custom size to match your image size.

Making an Image: Dimension Types

Print: Use millimetres (mm)

When making a new image in your software, the default dimension type may be **Pixel px**. In some software, you can use change this to mm. From the drop down, select: mm. The numbers you enter should be the same size as the matt board aperture. Images can be moved around and positioned during editing to fit the *Canvas* you have selected.

Digital Projection: Use pixels (px)

When making an image for digital projection in your software, the dimension type is Pixels (px). Use the **Export** or **Save for Web and Devices** menu options. Maximum size recommendations are:

- 1920 pixels (w)
- 1080 pixels (h)

NOTE: Make sure the width and height dimensions are linked when you *Export* or *Save* the image so that when one dimension is changed, the other dimension is also updated and the aspect ratio of your image is not changed.

Frankston Photographic Club Matt Board Dimensions

Competition Matt Boards are a standard size and available from the Frankston Photographic Club. See Figure 1 for dimensions. Matt boards with pre-cut apertures are available for two standard paper sizes.

- 16" (h) x 20" (w). External dimensions. Look for picture frames that suit this size.
- Matt board apertures from Frankston Photographic Club use have an Aspect Ratio of approx. 1.5

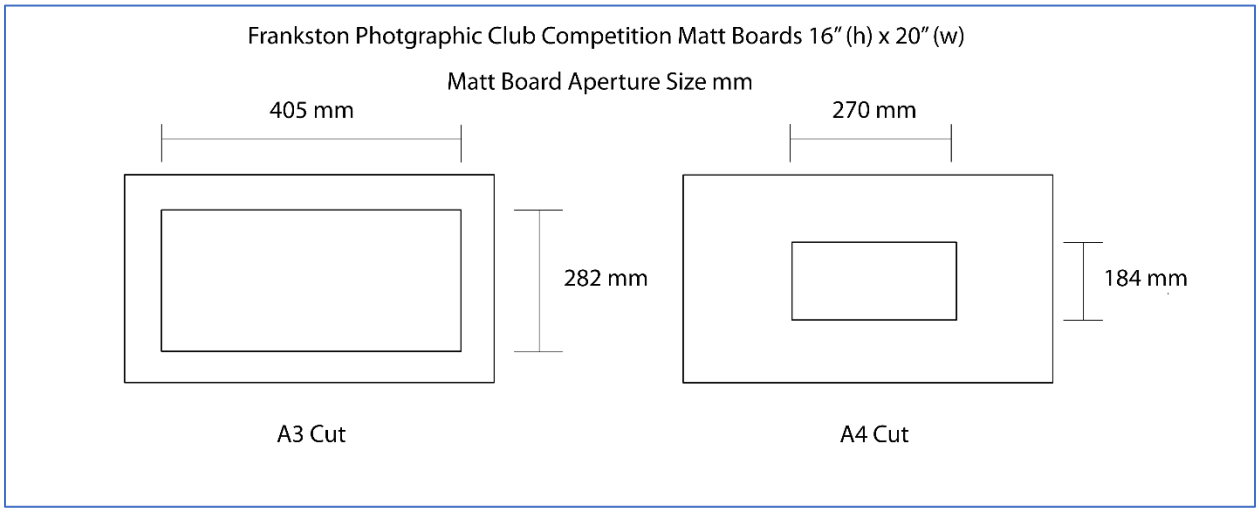


Figure 1: Pre-Cut Matt Board dimensions from the Frankston Photographic Club

Camera Sensor Types for STANDARD Matt Board Apertures.

To minimise the amount of work you need to do during editing, confirm the aspect ratio of your camera sensor. Not all Camera Sensors are the same size or Aspect Ratio (width / height). *See Appendix 1*.

- Use camera sensor dimensions when sizing your images in your editor.
- ***NOTE:*** Confirm the aspect ratio of your camera's sensor in the table in Appendix: 1

The table below is a guide to Frankston Photographic Club Matt Board aperture ratios and Camera Sensors that would fit with minimal adjustments.

Matt Board Aperture dimensions

Print Paper Size	Paper Dimensions	Aperture Dimensions	Ratio (w/h) Compare with Camera Sensor
A3 Cut (large)	297mm (w) × 420mm (h)	282 270 mm (h) x 405 mm (w)	1.47 : 1 (approx.) *Full Frame, APS-H, APS-C, APS-C (Canon)*
A4 Cut (small)	210mm (w) × 297mm (h)	184 180 mm (h) x 270 mm (w)	1.48 : 1 (approx.) *Full Frame, APS-H, APS-C, APS-C (Canon)*

Table 1 : Camera Sensor Types for Matt Board Apertures from the Frankston Photographic Club

Appendix 1: Common Camera Sensor Aspect Ratios

Not all cameras have sensors that are based on an aspect ratio of 3:2.

So not all images will fit the standard Frankston Photographic Club standard matt board apertures.

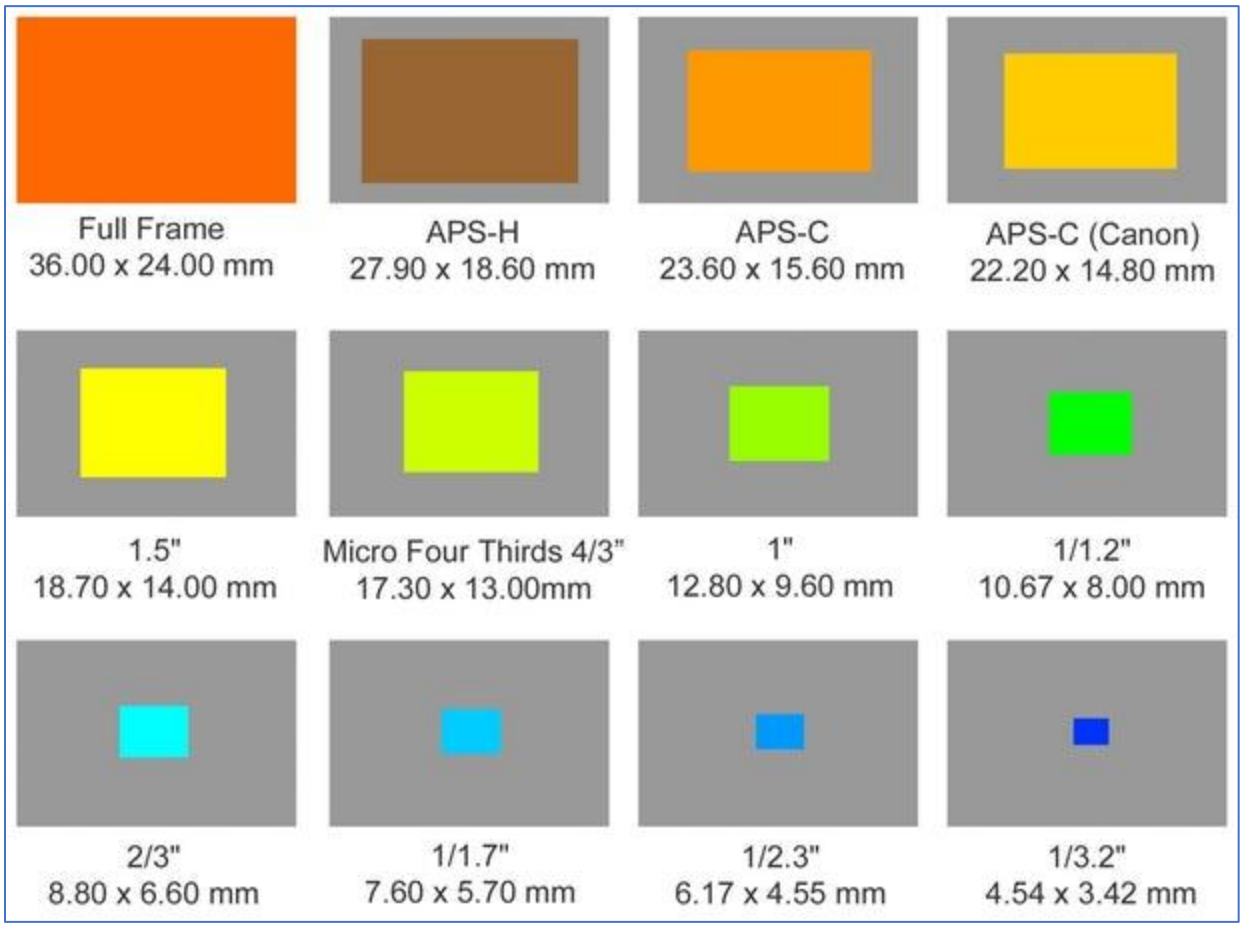


Figure 2: Dimension ratios for different digital camera image sensor sizes.

Sensor (from Figure 2)	**Size (w x h) mm**	**Ratio (w: h)**
Full Frame	36.00 x 24.00	1.50
APS-H	27.90 x 18.60	1.50
APS-C	23.60 x 15.60	1.51^{+}
APS-C (Canon)	22.20 x 14.80	1.50
1.5”	18.70 x 14.00	1.34^{+}
Micro Four Thirds 4/3”	17.30 x 13.00	1.33^{+}
1”	12.80 x 9.60	1.33
1/1.2”	10.67 x 8.00	1.33
2/3”	8.80 x 6.60	1.33
1/1.7”	7.60 x 5.70	1.33
1/2.3”	6.17 x 4.55	1.37
1/3.2	4.54 x 3.42	1.33^{+}

Table 2: Camera Sensor Aspect Ratios. + = Rounded

Use these camera sensor dimensions as guides when

- Deciding on an image crop size
- Designing a template to edit your images
    - This method allows the image to be resized, rather than cropped to fit a particular matt board aperture.
- Deciding on the size and dimension of the aperture on the matting board for a custom cut.
    - This method allows the image to be resized, rather than cropped to fit a particular matt board aperture.

NOTE: If considering cutting a Customer Aperture for your matt board, consider the camera sensor size and aspect ratios.

Appendix 2: Matching Canvas Size and Matt Board Aperture

You can use the Millimetre (mm) dimension unit when making a new image for printing purposes. Make the size of the canvas match the size of the matt board aperture.

Make a NEW image with File >> New

- Use the dimension of your Matt Board Aperture (full image or border size of image)
  - Width: mm Dimension: choose from drop down…
  - Height: mm Dimension: choose from drop down…
- Colour Mode: RGB, 16 bit

Resolution: Print is always XX pixels per inch **(TBC)**

Make a new canvas the size of your matt board aperture in mm

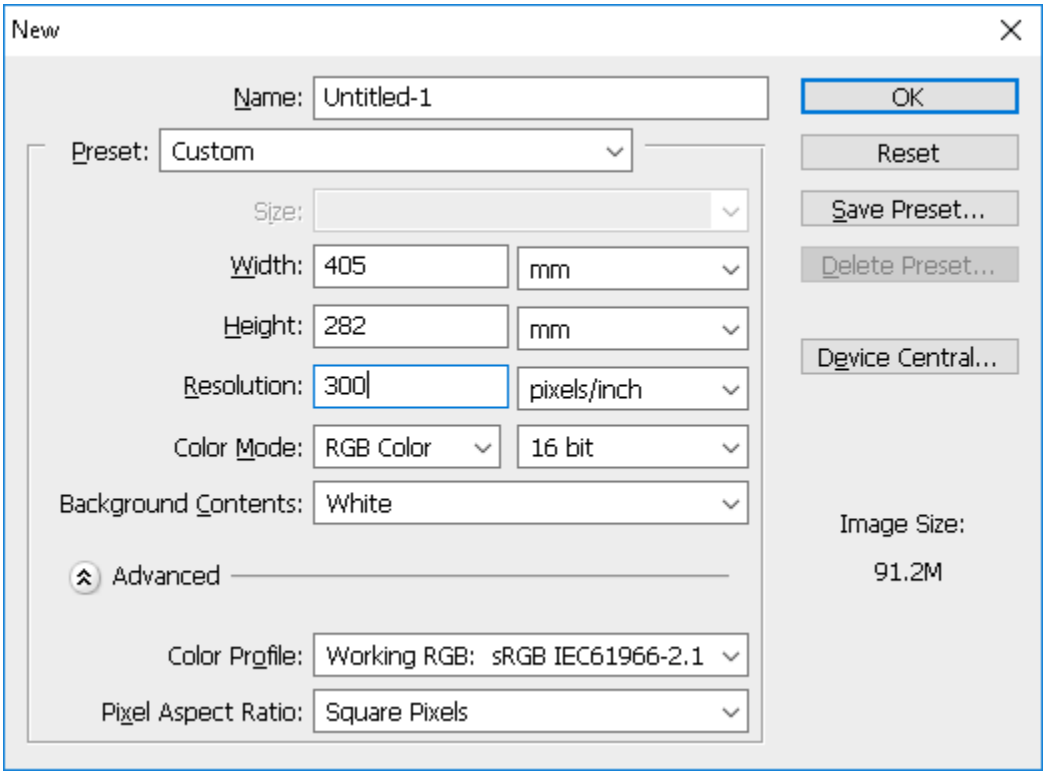


Figure 3: New image canvas size using mm dimensions (photoshop)

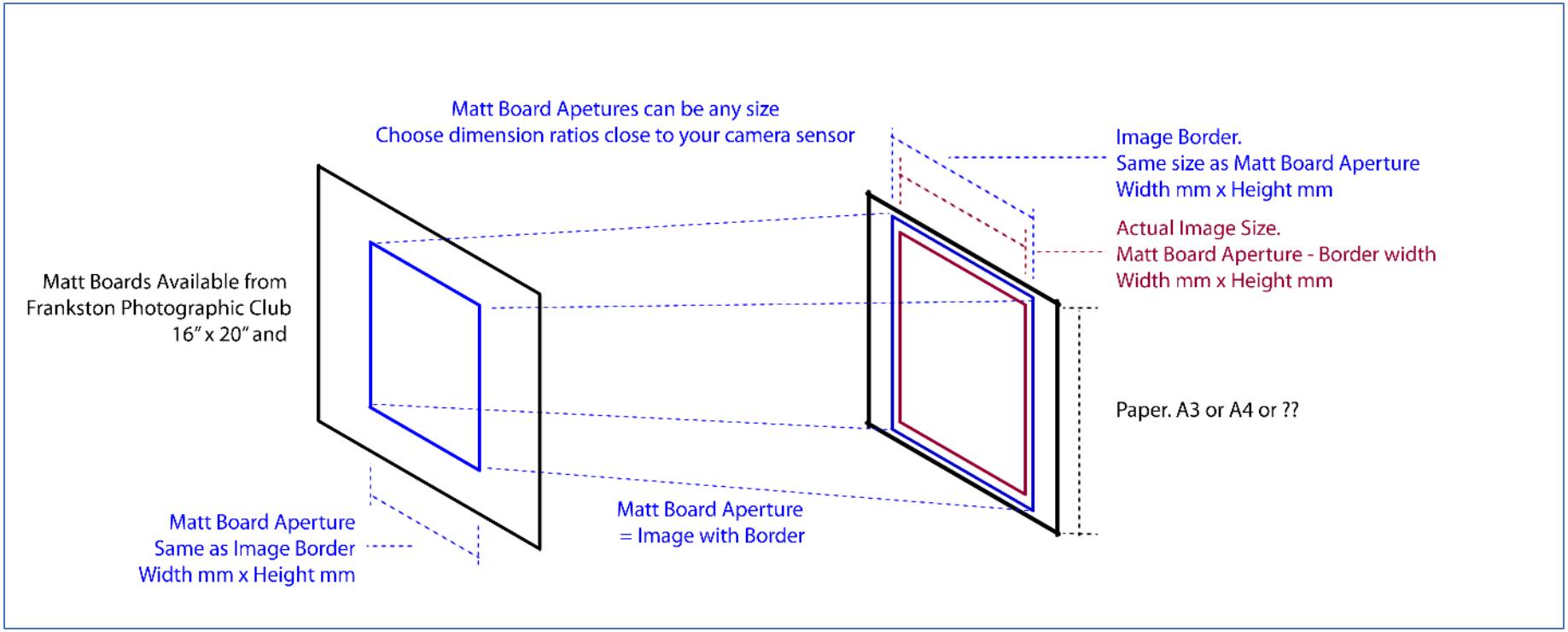
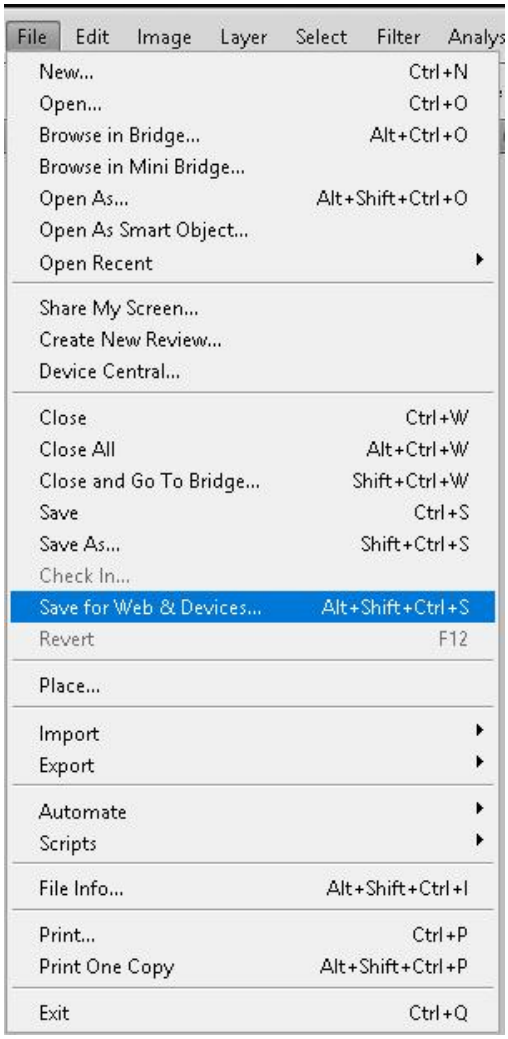
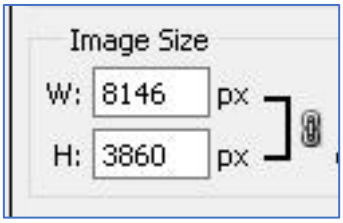
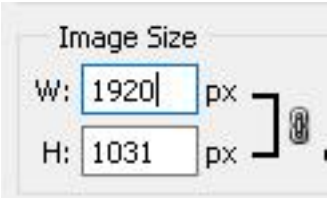
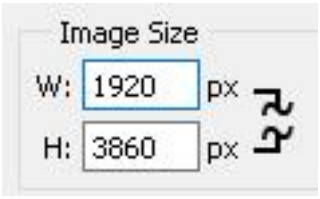


Figure 2: The full image size (including borders) is the same as the matt board aperture in mm

Appendix 3: Saving Images for Competition Submission

NOTE : Ensure width and height dimensions are linked when exporting or saving an image for digital.

Saving Images for Digital Display and Submitting for Competition	

NOTE:
Always use the print resolution for editing. When saving or exporting for web or digital the resolution will be automatically changed. You won't need to do anything.
 	
 
 	
	Maximum dimensions values for submitted Digital Prints
	• 1920 pixels (w)
	• 1080 pixels (h)
	
	Original Image Size
	 
	
	Modified Image Size for Competition, Linked dimensions
	 
	
	Ensure the Width and Height values are linked
	• Modify only a single dimension
	• Use one of the values
	  ○ 1920 pixels (w) *OR*
	  ○ 1080 pixels (h)
	NOTE:
	Modified Image Size, dimensions are NOT LINKED. Distortions will occur
	 

Print:

- Save As
- Maximum Width: **N/A (as long as it fits on the paper size A4 or A3)**
- Maximum Height: **N/A (as long as it fits on the paper size A4 or A3)**
- Maximum File Size: **N/A (larger file size = longer printing time)**
- Format: **TIFF, PSD, PSB**

Digital Display

- Save As / Export for Web and Devices in pixels
- Maximum Width:**1980 pixels**
- Maximum Height: **1080 pixels**
- Maximum File Size: **2MB**
- Format: JPG

Appendix 4: Print and Screen Dimensions and Resolutions for Editing

NOTE: The difference between mm and pixels

PAPER	Millimeters (mm)	300 dpi
DIGITAL / SCREEN	Pixels (px)	72 dpi

Resolution Versus Canvas size

The same canvas size (mm) will have a different number of Pixels when the resolution is changed.

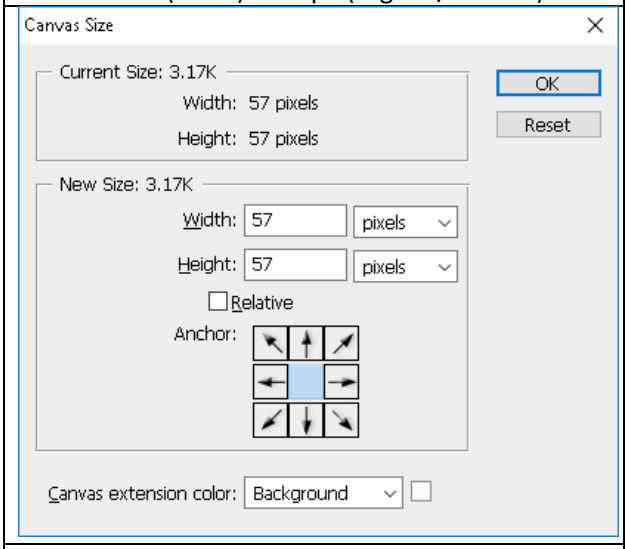
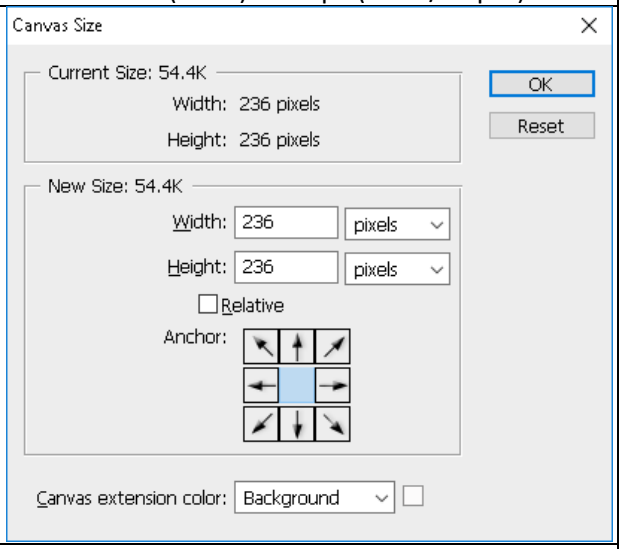
20mm (w x h) 72 dpi (Digital / Screen)	20mm (w x h) 300dpi (Print / Paper)
	
57 pixels at 72 dpi	236 pixels at 300 dpi

Table XX: Showing the difference in pixels when a different resolution is used.

How to find how many pi

References

- How to Create A Template in Photoshop, Jeffrey Tranberry, MasteringPhoto.com, http://masteringphoto.com/how-to-create-a-template-in-photoshop/, last accessed 2018.03.24
-
- Changing Guides and Grid Color in Photoshop, Julieanne Kost's Blog, http://blogs.adobe.com/jkost/2014/04/changing-guides-and-grid-color-in-photoshop.html, last accessed 2018.08.24

Plan >> Take >> Edit >> Print >> Submit >> Tell

1. Plan

- Have a concept for a competition, camera or editing technique
- Check the weather, site permissions, time of day for best image
- Make sure you have the gear you need. Cameras, Clothes, Phone, Money, Food etc

2. Take

- Find inspiration in a technique or competition subject
- Look for a Venue, Event or Activity

3. Edit

- Image Editing Techniques will be based on Adobe Photoshop CC and Adobe LightRoom CC
  - (subscription: https://creative.adobe.com/plans)
- Make a booking to an Image Editing Workshop: (*Link to FPC page TBC*)

4. Print

- Frankston Camera Club Print Workshops

5. Submit

- Frankston Photographic Club Competitions: competitions@frankstonphotoclub.com.au
- Inter-Club Competitions, National and International Competitions.

6. Tell

- Other members of the Frankston Photographic Club in the Monthly Newsletter.
- Write a short article of your experiences and learnings and include some images.
  - Send them to: newsletter@frankstonphotoclub.com.au.
- What you enjoyed or what we can do better on the Weekend Workflow Workshops.
  - Send them to: socialsecretary@frankstonphotoclub.com.au.

Voice Recognition Technology can be used to help write an article for the FPC Newsletter

Apple, Google, Windows, Linux and others have various ***[Voice to Text]*** applications that let you speak and have it converted into text.

Look for a microphone symbol on your device or application similar to (*see right ->)*
Activate and Speak: To activate may be a 'click' or a 'tap'

Give it a go. It's pretty easy and pretty accurate;
There shouldn't be too much editing afterwards.

We look forward to reading about yours and their adventures and learnings…