

# >PC\_Update

February 2019



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*... and much more to intrigue and entertain!*

**WARNING: The fire door at the top of the stairs, next to the lift at Moorabbin is now locked!**



# >PC\_Update

February 2019

## The newsletter of

Melbourne PC User Group Inc.

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[Live chat.](#)

<https://www.melbpc.org.au/ihelp/ihelp-remote-support/>

## Membership application form online

**Responsibility for content in this club newsletter lies with individually named authors.**

## Monthly Meeting Live Stream

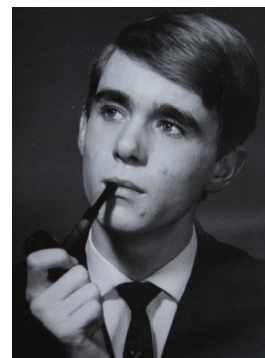
Tune in here at 7.00pm on Wed 5<sup>th</sup> February to view the Monthly Meeting live over the Internet.

Test Transmission usually commences at around 6.30pm <http://tv.melbpc.org.au>

## Editorial

## Producing PC Update

When I took over editing PC Update a year ago, it was being produced in Microsoft Word. I agreed to continue with that tool. Since then there has been a lot of debate about the best program to use. I somewhat favoured a proper desktop publisher. Some insisted it should be a multi-platform (Windows, Linux, Apple) program to increase the number of potential successors when I eventually lay down my quill pen.



Meanwhile Word was causing me headaches. Page numbers would go awry. Pictures would suddenly jump to another page or vanish entirely. The contents table would go bananas. Frequent operations required far too many clicks and couldn't be made into macros.

I had a bit of a play with several desktop publishers, paid ones as well as the open source, free, multi-platform desktop publisher Scribus. Most had licensing/cost issues. So I road-tested Scribus. I soon hit a fatal flaw that would stop me having automatically updated front cover references to inside article page numbers. IMO Scribus is suitable only for producing brochures, not structured documents.

So I decided to try, tongue in cheek, plain old LibreOffice Writer (LOW). Long story short, this issue is produced in LOW. It has some quirks similar to Word, but no more or no worse than Word, and overall it is a bit easier to drive. The trick is to start with a blank document, not expect to convert an existing file from Word into LOW.

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# Stop that motion!

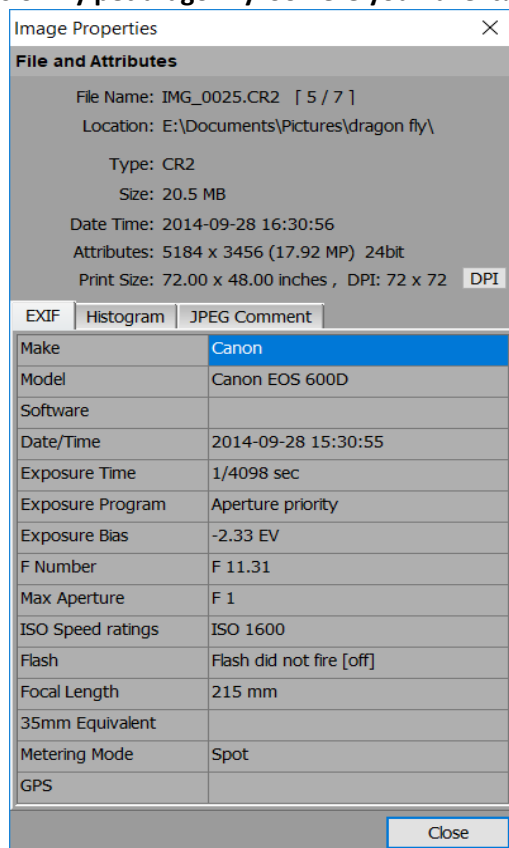
David Stonier-Gibson

Back in the March -18 issue of PC Update I “threatened” that if nobody else contributed some cover photos to the magazine I would run some pictures of my pet dragonfly. So here you have it!

Of course, I have a to build a bit of a story around the photo, and the obvious thing is capturing motion “on the fly” as it were.

The picture was taken late September 2014, at 4:30 pm. The sun was low, coming in from camera left. I just happened to look outside and noticed a dragonfly circling the garden table, and saw it as an opportunity. I grabbed my camera and rushed outside, convinced the thing would vanish right away. But in fact it continued to circle me for a couple of minutes, long enough to rattle off at least 35 shots, judging by the numbers on the seven frames I have kept.

The exif data in the files indicates I shot at 1/4000S at f11 and



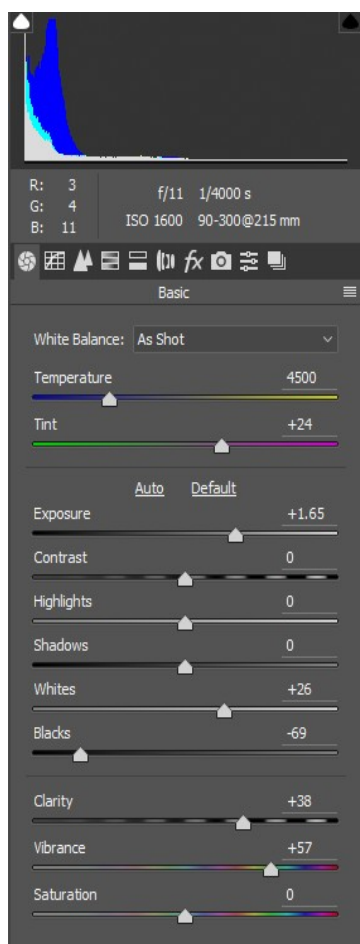
the f11 was fixed and 1/4000 is what the camera provided.

**2.3 stops under-exposure.** Now that one is a little more mysterious. Was I trying to make it as noisy/grainy as I could? No. The thing is the background was partly a dark coloured fence in shade. If I let the camera expose for that long the subject would very likely be over-exposed, with burn-out (saturation) of the lighter parts. So, of over or under-exposure, I consider underexposure the lesser evil. This, especially, as I always shoot in raw format.

**215mm lens.** My nice tele-zoom goes to 480mm full-frame equivalent. Why not use full extension? This thing was moving fast! Most shots missed entirely. So it was a simple trade-off to use a wider field of view to maximise the chances of a hit.

All these settings meant I was inviting noise, but that was the price I had to

pay to get *anything* remotely usable. After a very short shoot the hard work takes place in the darkroom, a.k.a. the raw import module of PhotoShop. I don't use Light-Room much any more, and for the undemanding shots I use just FastStone. As you can see from the thumbnail it doesn't look at all impressive a first glance. But when you zoom in on my large monitor you can see that the detail in the subject is good (I wouldn't say superb). So I basically fixed it by upping the exposure slider to tweak the subject, then slid back the 'blacks' slider to restore the background to nice and dark for the front cover. A bit of 'clarity', which I find makes it look sharper without amplifying the noise, and some more 'vibrance' to try and make it pop some more, and it's ready to bring into PhotoShop proper and crop to A4 aspect ratio.



ISO1600. But I also set to underexpose by 2.3 stops. Lens focal length 215mm.

So why those settings? Lets go through it, bearing in mind this was a total “no second chances” situation that was sure to come to an abrupt and unpredictable end..

**1/4000.** Obviously I wanted to freeze the insect's wing movement, so the faster the better.

**f11.** This was a fast moving subject that I had to try and track. The camera's auto focus was going to be struggling, so I needed plenty of depth of focus. I was actually shooting in aperture priority mode, so

## Our New Video Production SIG

John Hall

After many years of running the Video Inner East SIG at Ashburton – the SIG Convenor, Richard Balsillie, has decided to retire from that role and as no-one else from Ashburton offered to take over from Richard – I have volunteered to take over as SIG Convenor and move it to Moorabbin.

Those of you who attended the Video Production SIG at Chadstone (or the Video Inner East SIG) will be aware of the format of those Meetings and as we had many regular attendees at each of those Meetings we will continue to run this SIG Meeting with that same successful format.

To open the Meetings, John Thomson will give us an update on “What’s New” with a particular emphasis on Hardware.

Then we will have a Question and Answer Session where we will attempt to address any problems that you might have had with your Video Capture, Editing or Production during the previous month.

We will then have a demonstration of some aspect of Video Production from either myself, Barry Sheedy, Roger Wragg, Richard Balsillie (or any other Member of the SIG Group) – which will be aimed at informing the attendees of the methods used to film, edit and produce Videos.

For this Month’s topic we will be looking at the ways of improving old Video footage taken on an 8mm, Hi8 or DV camera in the original 4:3 format and upscaling and sharpening that to produce an acceptable (in our opinion at least) 16:9 version to be viewed on a modern TV Screen.

*Meetings to be held at Moorabbin on the 2nd Monday of each Month starting February 11th 2019 at 7:30 pm.*

*If you attend please be sure to have your membership card with you. We will be testing a new reader system for the QR code.*

Roger Wragg will be showing us various ways in which he improves his old video footage using Sony Vegas and even re-filming his footage, then Barry Sheedy will be showing us how he uses Adobe Premiere to improve his videos and after the Coffee Break I will be demonstrating some COMPLETELY FREE SOFTWARE to do the same on my movies.

We are deliberately leaving the demo of the free Software until after the break to encourage people to stay and mingle with other folks and chat about what you would like to learn from our new Group over the coming year. Please feel free to talk to any one of us with your ideas.

After the Coffee Break there will be an opportunity for you to show your own footage on the big screen Projector at Moorabbin.

(Please bring your footage on a USB Memory stick so that we can load it on to our PC for Projection).

We are hoping that we can attract some new or potential Members to come along so if you know of anyone who has an interest in Video Production, please feel free to invite them along to this Meeting and they can attend for a couple of times to see if they are getting any benefit from attending before we will ask them to to become a full Member of Melbourne PC.

## Getting to Moorabbin club rooms (tricky to find!)

The club rooms are a bit tricky to find. We are on Warrigal Road, Moorabbin, west side, directly opposite Bunnings. [Map on Google](#). Coming from the north drive a bit past and do a U-turn. Coming from the south stay in the left lane, watch out for the Coconut House restaurant sign, which is immediately before the driveway. Park down the back, enter from the street or through the basement car park (which has a lift). We are on the top floor.

Alternative instructions, even more detailed, here: <https://www.melbpc.org.au/about-us/getting-to-our-clubrooms/>





# February monthly meeting

The monthly meeting will be held at Moorabbin on Wednesday 6<sup>th</sup> February, at 7pm. We will be test-driving the new membership card QR (barcode) scanning system for the first time.

**Please bring your membership card – or a good image of the QR code on your phone.**

**Please turn up by 6:45 to allow a little extra time for the new system.**

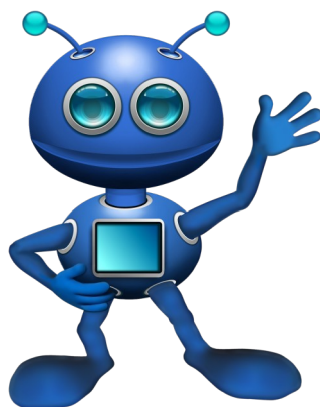
We have an interesting program lined up for you, with a special guest speaker, Prof. James Harland.

## **Topic: The Robots are here and having fun.**

Robots are a common theme in science fiction. Now they are very much a fact of life, with children being taught to program small toy robots as well as more ambitious kits such as Lego Mindstorms. In this talk James will describe the experiences at RMIT with a Baxter robot, known as Rosie. Baxter robots are humanoid in style and roughly human in size, and were originally designed to work alongside humans on a production line. This means that various safety factors are built into Rosie (such as rubber pulleys and arms made of plastic rather than metal). Safety becomes particularly important as Rosie has a mobile base, which means she can move autonomously. James will describe some work done in RMIT's Virtual Experience Laboratory with Rosie, including safe navigation of obstacles, working with crowds and being able to program

or re-program Rosie via a natural language interface. Unfortunately Rosie will not be coming with James as she has a prior engagement. But we will see some home movies of her.

James Harland is the Associate Dean, Student Experience, in the School of Science at RMIT University, where he has been an academic staff member since 1994. He is also a Professor of Computational Logic, and has an international reputation for his research into logic programming, automated reasoning, agent programming and computer science education. His current research interests include reasoning methods for intelligent software agents, which deliberate over the appropriate courses of action to take in order to achieve their specific goals (such as the Mars rover), development of methods for managing interactive narratives via computational reasoning, investigation of abstract computational models such as universal Turing machines, and investigation of threshold concepts for theoretical computer science.



*This is not Rosie :-)*

## **Meeting agenda**

6:45 Registration with new trial QR system. Buy your raffle tickets!

7:00 *sharp*. Meeting start, MC is Peter Bacon

- Stephen Zuluaga will deliver the President's report as John Hall is unable to attend;
- Guest speaker James Harland;
- Social break. We are continuing the "cafe style" layout;
- Raffle;
- Q and A with George Skarbek;

- An overview of our new QR attendance management system. Rob Brown will describe the hardware, and Peter Boin will outline the front-end software that feeds into the CiviCRM membership management system;
- *What's New?* with George Skarbek. An interesting roundup of computer and technology news from around the world;
- 9:30: Close.

The meeting will be streamed live, with test transmission starting 15 or so minutes before the meeting. Details and instructions here <https://www.melbpc.org.au/monthly-meeting/live-stream/>

**STOP PRESS: There was a break-in at the premises across the hall from us the other day. Because of that the fire door next to the lift is now locked. Do not use those stairs!**

Don't forget, directly after the meeting WAFFLE SIG at Fong's Chinese restaurant in Bentleigh. This is a totally social gathering where you can enjoy a snack, a full meal or just a cup of coffee. Sketch maps at the meeting or use [Google Maps](https://www.google.com/maps).

## Chromebooks for Seniors

*Rich Davis*

**Chromebooks are laptops that use Google's operating system. They are quite inexpensive as compared to a Windows or Apple machine. My newest Chromebook is 15" and was \$129.00 (US\$ - Ed) as a refurbished item.**

I had a back injury some years ago when I heard about Chromebooks as they had just been rolled out. The critics slammed them as being quite useless. I seemed to be drawn to them after reading a lot about how they work. This looked like a good computer to me. I decided to challenge the critics and make this my main machine if I could. I would be able to spend some time learning as I was laid up.

One drawback that the critics named was storage. My first Chromebook had only 18gb of hard drive. I had a Gmail account and found that I had 15gb of space for free. I could also add an SD card to give me much more. Also, when you buy a Chromebook you get an extra 100gb of online storage for free for a couple of years. Another, or maybe equal drawback to the first was that you had to be online to use your Chromebook. I always am so that didn't bother me. Improvements have made the Chromebook useful offline as of now.

The third obstacle was that you couldn't load software.

True, but instead we use apps that are downloaded. In my opinion, they are better than software. Some of the apps are not as robust as a complete software suite. But, hey, I have slowed down with work and the apps work fine for me. Also, Google sets up a drive in the cloud, which means on their servers, for the user. Included is a software suite almost as good as Microsoft Office and compatible with it.

Once I got the knack of using my Chromebook I never looked back. Updates take a few seconds. The laptop



starts in 7 seconds. The battery life is about 10 hours. I can watch Netflix movies, Skype, Email, create documents and slideshows, and much more. There is no need for antivirus software.

It is perfect for me. Did you know that 70 percent of schools use Chromebooks because of their price and functionality eclipsing iPads and Windows machines for students? So, the critics were dead wrong. They didn't give something new a fair chance. A couple of years ago my grandson, 14, told me how cool my Chromebook was. I sure was proud of my decision to go with my gut and try something new.

**The author: Rich Davis is Communications Director of [Computer Booters of Sun Lakes, AZ](#) a fellow member club of APCUG. This article was originally published in the October 2017 issue of their newsletter, *The Computer Booter***



### APCUG Virtual Conference

**Melb PC is a member of APCUG, Association of Technology and Computer User Groups, and Melb PC members are entitled to certain membership privileges. APCUG holds regular *virtual conferences* online, and as a Melb PC member you are free to participate.**

The next virtual conference is on Sunday 10<sup>th</sup> February. Please visit the conference webpage for further details and to pre-register.

Information: <https://apcug2.org/apcug-2019-winter-virtual-technology-conference-vtc31/>

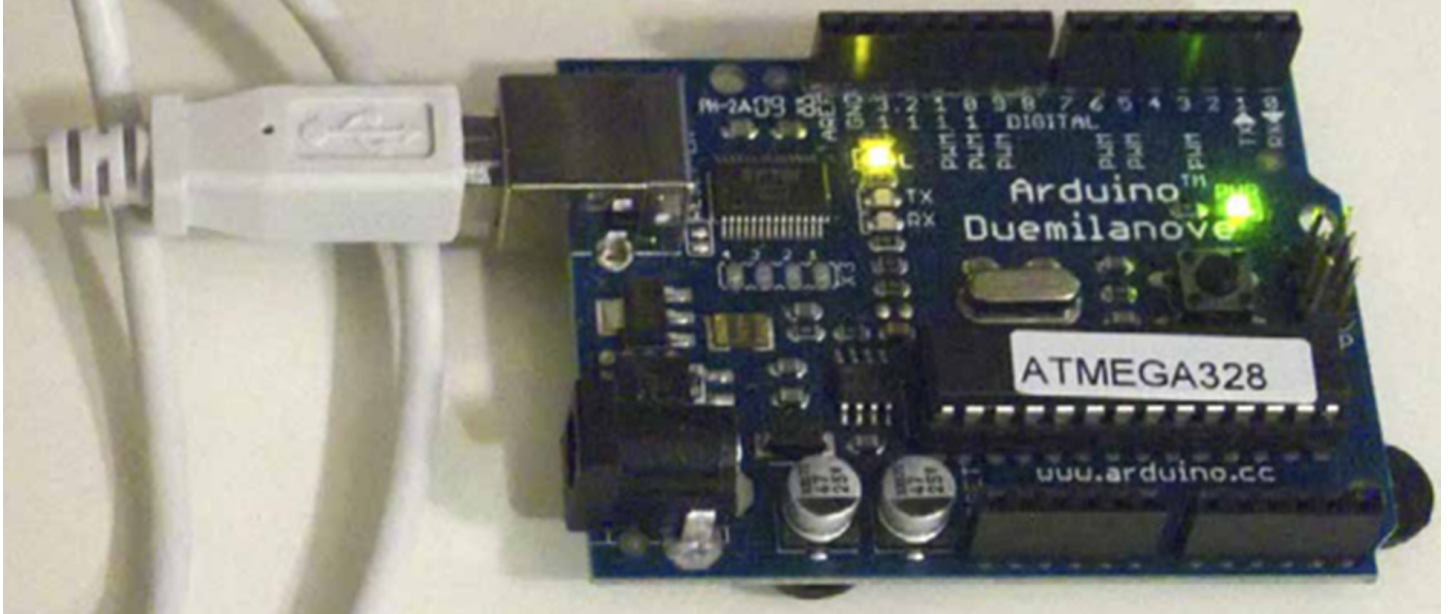
Registration and software preparation:

<https://www.eventbrite.com/e/2019-winter-virtual-technology-conference-tickets-54994757801>

## Meet the many members of the Arduino family

*Dick Maybach*

The Arduino is a controller rather than a complete computer like the Raspberry Pi (which I'll discuss next month); it's much simpler and getting started with it is far easier. It has no operating system and runs only one program at a time, which starts when the unit is powered and runs until power is removed.



To start you need only to connect it to a PC's USB port, which provides power, control, and information exchange. As a controller, its strength lies in its ability to control and to collect data from external devices. Thus, using an Arduino invariably involves external circuits and devices. These can be as simple as switches and LEDs or as complex as robots and drones.

There are several Arduino models. You should probably begin with the Uno, the most used and most robust in the family. The Mega and Zero have higher performance and more input/output terminals ("pins") for more complex projects. The Gemma and the Lily pads are smaller and designed to be incorporated into garments. The MKR1000 includes WiFi and is designed for Internet of Things (IoT) projects. There are also dozens of expansion boards, called shields, to add functions to all the models.

The Arduino provides a very easy way to get started with computer hardware technology and software. You work in your native computer environment – Windows, macOS, or Linux.

The Arduino comes complete; you have only to connect it to your PC with a USB cable, which provides both communication and power. The supporting software, the Arduino Integrated Development Environment (IDE), is free; just download and run it.

The first experiment (a "Hello World" program) requires nothing except the Arduino board, a USB cable, and the IDE. You can have it running in just a few minutes.

To go further, you will need some basic electronic parts (switches, LEDs, and sensors), a prototyping board (a.k.a. solderless breadboard), and some jumpers. Many vendors sell inexpensive kits with these parts and instructions for experiments using them.

The components plug directly into the prototyping board, where the jumpers connect them to each other and to the Arduino ports. No soldering is needed.

At some point, you may wish to add expansion boards ("shields"), and some of these do require soldering. This is not difficult, as learning kits with the tools, practice material, and instruction are available, and it's a skill you will find useful if you progress beyond a few basic experiments.

The picture above shows an Arduino connected to a PC and running the program of Figure 2. The Arduino is drawing its power from the PC's USB port, so that is all you need to get going: The Arduino and a USB cable.

The green LED is a power indicator and the yellowish LED is the one controlled by the program. You can also see the black terminal strips that contain the analog and digital input and output pins to which the shields connect. Once you've loaded the program, you can disconnect the board from your PC. The program will start automatically as soon as you power the board, either through the USB port as shown or the black power connector at the bottom-left.

Figure 2 shows the Arduino IDE window on a PC; it's avail-



able for Windows, macOS, and Linux. It also shows the Arduino version of “Hello world,” the first program you write when learning a new language. Arduino’s native language is a simplified form of C++, and in this program, it just turns on an LED for one second, off for one second, and repeats forever. The first line is a comment, and the next three set up the hardware so that pin 13, which is connected to the LED, will be controlled as a digital output.

The section beginning with “void loop ()” is the program. It moves the pin-13 Voltage high, waits 1000 milliseconds, moves it low, waits 1000 milliseconds, and repeats. Although it looks quite simple, this exercise is far from trivial, as it shows that your naked Arduino is working properly, that its IDE is installed and configured correctly, and that you can program it. If your next project misbehaves, you have only to check its code to find the error.

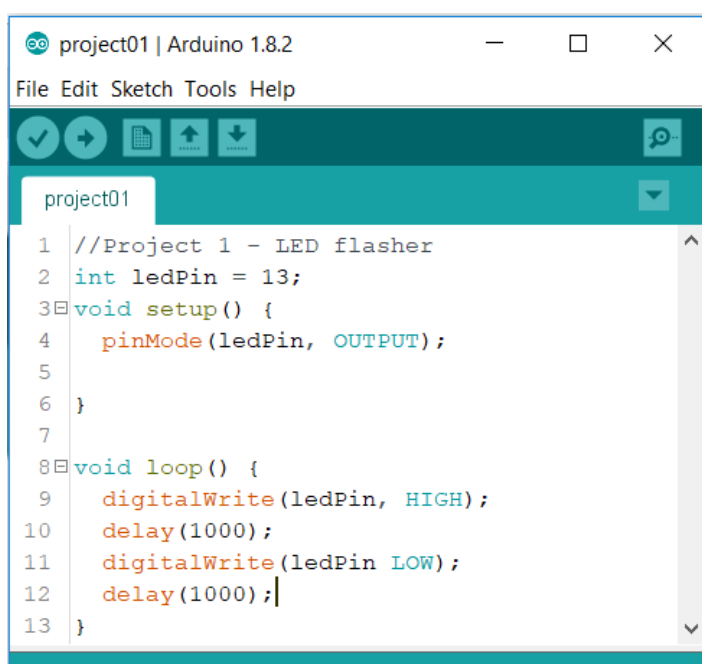


Figure 2: Arduino IDE

Figure 3 shows the Arduino kit I’ve assembled over several years. At bottom-left is a naked Arduino; this is a complete controller with its one LED and one push-button, with which you can run very simple experiments. At bottom-center is an Arduino with a shield. You plug

components and wires into the white board to create simple circuits and connect them to the controller. The box holds my collection of wires and components (LEDs, switches, sensors, a motor, a servo, and an LCD display). Finally, on the right is another Arduino with a prototype shield and a larger prototype board for more complex circuits.

Arduino and a white prototype board make it easy to get started in electronics. The components don’t require soldering, but just plug into the board. Everything is controlled by the processor, which you can monitor using the IDE. The input devices (e.g., switches and light and temperature sensors) and output devices (e.g., LEDs and motors) are visually observable without instruments. (Although you may wish to purchase a cheap multi-meter to check Voltages and resistor values, as modern resistors are tiny and their values indicated by even tinier color bands.)

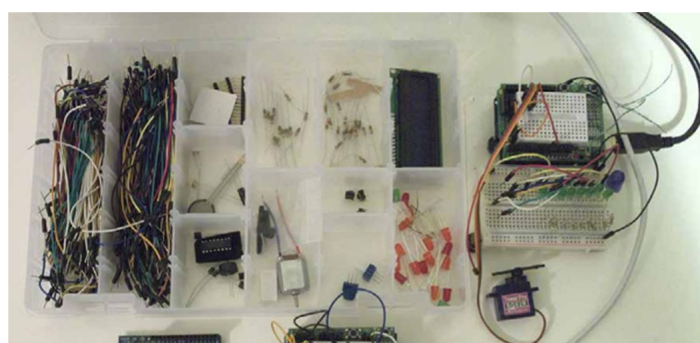


Figure 3: My Arduino kit.

Arduino’s strength lies in its relative simplicity. You work entirely from your own PC, which means you are in a familiar environment and can concentrate on the programming and the hardware. Most people will start with Arduino, a prototype shield, and a parts kit, available from several suppliers. Typically, the circuits in published projects are shown pictorially, as in Figure 4, rather than as schematics. As a result, you can assemble them without knowing how to read schematic diagrams.

Most project descriptions will have a paint-by-the-numbers nature. You connect components and jumpers according to the pictorial, paste the code into the IDE, and

### Technical tip

## Easy Device Manager access

Device Manager in Windows is the tool you use to manage the computer’s hardware such as disc drives, USB ports, COM ports and the like. From time to time you may need to have a session to sort out some issue, and it can be a bit cumbersome to access Device Manager several times during the day. When that happens to me I simply create a desktop shortcut, like this:

- 1.Right-click the desktop.
- 2.Select New - Shortcut from the displayed context menu.
- 3.For the item's location, type devmgmt.msc, and click Next.
- 4.Name the shortcut *Device Manager*, then click Finish.



see what it does. If you do nothing else, you will have learned little. You can learn much more by experimenting with the code and the circuit after you have it working. For example, if the project is a blinking LED, change the code to make it blink faster or slower or with different on and off times.

Because most Arduino projects include circuitry, you will be learning about electronics as you progress. The prototype boards mean you can assemble the circuits without soldering and can make changes rapidly. Since most of the complexity is handled by software, the circuits are usually

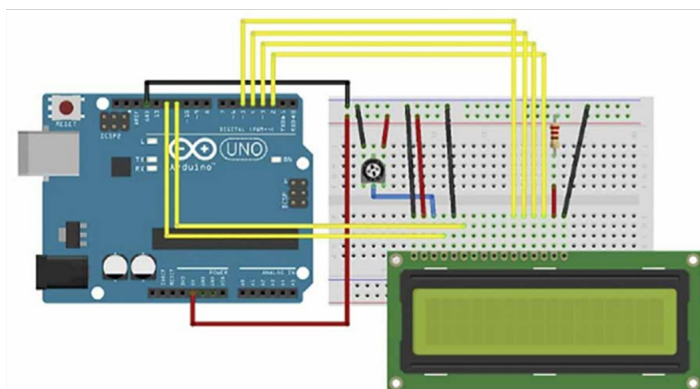


Figure 4: Pictorial wiring diagram

quite simple, and this is typical of modern electronics. Open the case of a modern device and compare it to one made years ago, and you will be struck by how much simpler the modern one is, despite its far more complex functions. This means that young people working with Arduinos are preparing themselves for successful careers in

electronics.

The Arduino home Website, <http://www.arduino.cc/>, is where you go to download the IDE, learn about the different versions of the processor, obtain tutorials, and purchase devices and kits.

You will see two product lines, Arduino and Genuino. The development team split and formed two different companies. They have recently resolved their disagreement, and the two product lines will most likely merge. (There are also several clones, but I prefer to purchase Arduino products to support its continued development.)

Many electronics vendors supply Arduino products, accessories, kits, and tutorial material. Three prominent ones are Adafruit, <http://www.adafruit.com/>, SparkFun, <http://www.sparkfun.com/>, and Element 14, <http://www.element14.com/community/groups/arduino>.

A search for “Arduino” will show you many more. If you prefer to see before you buy, check your [local Jaycar](#), although not all stores will have a good inventory. When you tire of watching blinking LEDs, check the Instructables Website,

<http://www.instructables.com/id/Arduino-Projects/>, for more complex projects. Arduino is popular enough that your local book shop probably has several books on it, making getting started easy.

**The author: Dick Maybach is a member of [Brookdale Computer Users’ Group](#), New Jersey, a fellow member club of APCUG. This article was first published in the August 2017 issue of BUG Bytes**

## Arduino at Moorabbin

*David Stonier-Gibson*

**If you are attracted to the creative possibilities of Arduino, if you are inspired by the possibility of making things happen in the real world via code you wrote, we have a very active group of people in Moorabbin who can help you get started.**

Come along to Moorabbin any Saturday and you will discover it is a hive of activity around Arduino and similar systems. There are people there who know how to use and program microcontrollers, and who will be all too happy to share their knowledge. We also have a collection of electronic parts that are freely available to Melb PC members, including Arduino boards, solderless breadboards, power supplies, and test instruments. There is also a fairly decent range of electronic components from resistors and LEDs to transistors, servo motors, beepers and the like. So Moorabbin is where you can get started with Arduino without any worries about buying the “right” stuff. There is also a 3D printer for member use, and downstairs we are developing a well-equipped machine shop for

members’ benefit

### *Extending Arduino’s reach*

Because the Arduino has been so successful, there are dozens, if not hundreds of Arduino products, both base boards and shields (I/O expansion boards)

But there’s more! The Arduino IDE was design from the get-go for flexibility. As a result, it is not restricted to supporting only Arduinos with their limited 8-bit processor. The same IDE can now be used to program very powerful 32-bit boards with inbuilt WiFi and Bluetooth capability. So once you get into Arduino and its ecosystem, the door opens up to an enormous range of possible applications, including Internet of Things (IoT) and online connectivity.

Once upon a time there were newsgroups. Now we have Yammer, the online forum for Melb PC users. Within it are different groups for members with varying interests. It's also where you are likely to hear club news first. To access Yammer simply have your Melb PC login name (@melbpc.org.au email address) and password handy, click this link: <https://www.yammer.com/melbpc.org.au/> and log in

## **Computing**

David reminded us that Windows 7 has recently passed the one year to go mark – Microsoft will cease all support after January 14 2020 so start planning your exit strategy now! Merv then confessed he was still running WinXP on an old laptop and was told he was a very naughty boy and should install Linux immediately.

Like WinXP and Win98 before it, come next year it will be time to take the ol' Win7 out the back and shoot it lest you become a danger to yourself and others after the security updates cease.

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1221491376>

We had an interesting discussion on the perceived risks of radiation from the large number of 5G mobile phone transmitters that are coming – there will be a lot of them due to the nature of the 5G network but they'll be correspondingly lower powered. Be more worried about the phone you're holding to your ear and the WiFi router sitting next to you on the desk.

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1217740103>

## **NBN Questions and Comments**

Tim reported on his not entirely smooth conversion from ADSL 2+ to NBN HFC. The physical installation itself went very well but the resulting connection less so. Thinking he'd ordered a 50/20Mbps connection he was rather non-plussed with the initial 11Mbps down and 0.95Mbps up, commenting it was on a par with his old ADSL connection. Richard rather presciently said they were good speeds for a 12/1 connection.

Turns out Tim was getting exactly what he'd inadvertently ordered – a 12/1 connection! It took a few days for his provider to switch him up to the desired speed tier with the result being a very nice 47Mbps down. Oddly there was no change to the upload speed, seemingly stuck at 1Mbps rather than a speed closer to the 20Mbps, so clearly something was still not right. He filed a complaint and while he never specifically heard back, within a couple of days the upload speed came good with a very acceptable 19Mbps. In the end a good set of numbers to have.

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1218974648>

## **Chit Chat**

Kevin posted an absolutely bizarre pic of an extension cord hanging out of a wall plate having allegedly been profes-

sionally installed - it really must be seen to be believed. This prompted Sean to recount a home owner who'd wired a power socket downstairs to one upstairs to provide a phone extension! Norman added quite an array of electrical horrors he'd witnessed – from the ridiculous HDMI leads hanging out of wall sockets to the downright horrendously dangerous light dimmer wired without a switch ("well, when you turn them down the lamp goes out so no need..."). Kevin had one of his own – a customer complaining about receiving shocks from a telephone because said customer had chrome plated them!

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1222730636>

## **Security, Scams and Phishing**

If you ever receive an e-mail that you're concerned about being suspicious our Security, Scams and Phishing group is a good place to seek help on handling it. Members also regularly post information about the latest scams to be aware of as well as security and scam things they've encountered personally – scam phone calls, notices at supermarkets warning customers about buying iTunes cards to pay scammers, dodgy e-mails, threatening e-mails.

It's a handy way to be aware of the various threats that are currently around and to see what they look like when someone reports receiving one. Taking a screenshot is a great safe way of conveying information as there is nothing dangerous for anyone to accidentally click on.

John asked what to do about a blackmail scam e-mail he'd received – the one seeking payment in BitCoin to prevent release of images of the recipient watching porn synchronised with the purported porn in question. These types of e-mails can be quite scary to receive if you aren't aware of them being a scam. As ever the advice is to never click on links in e-mails and just delete them.

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1206761985>

Frank reported receiving a large red flashing warning from Microsoft about the computer being blocked due to a variety of possible nasty reasons (virus, illegal key, unsafe web site amongst others), warning not to shut the computer down and providing a number to call to fix the "problem". Frank had already rebooted the computer which of course removed the "problem" as the warning message was just an image seeking to scam rather than actual malware. A scan with Malwarebytes came up clean.

<https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1206120873>



## The QR project

*David Stonier-Gibson*

**The new/current committee is working to bring about a number of positive changes in your club. One of these much needed changes is attendance management, access control and security at Moorabbin**

Those are actually three intersecting areas of concern:

- Attendance management is about registering members' attendance at general meetings, SIG meetings, and events, in addition to simply showing up and using club facilities.
- Access control is about letting authorised people into the building and rooms, as well as access to certain equipment (e.g. lathe)
- Security is about access control plus monitoring for break-ins.

By now all members should have a shiny new membership card with a machine readable QR code. These were instituted by a previous committee; now is the time to make use of the QR code.

The QR code will initially be used to record attendance at formal events at Moorabbin. To this end we have a project spearheaded by Rob Brown (hardware) and Peter Boin (software) to implement a QR reader in the entrance area. The back-end software will talk to our newish CiviCRM membership management system with suitable modules for attendance reporting. The plan is for this reader to be gradually applied to more and more gatherings: SIGs,

monthly meetings. Once we have the experience with that we will assist SIGs in other locations around Melbourne to implement this process.

The purpose of the QR project is to:-

- a) Protect us against non-members who attend meetings and use our facilities without paying.
- b) Gather statistics on who, and how many people, take advantage of different events and facilities. This should provide valuable insights into member's preferences and desires.

The first live trial of the QR reader at Moorabbin is expected to be at the February monthly meeting, Wednesday 5<sup>th</sup> February at 7pm. After that it will get another spin at the first Moorabbin meeting of the re-located video SIG on Monday 11<sup>th</sup> February at 7:30pm. We may also give it a spin at the next Microcontroller SIG, Wednesday 13<sup>th</sup> February at 7pm.

**From now on, when you attend anything at Moorabbin, please bring your membership card. Or you can keep a clear photo of you QR code in your phone, as we will see if that is a workable alternative.**



*What does it say?*

## Renovator's ideas corner

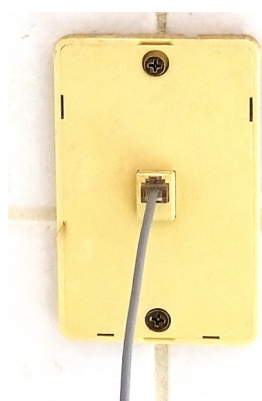


## ADSL Faults

*Cedric Wyndham*

The NBN roll-out may be well advanced now, but many of our members are still using the old Telstra copper wire phone wires for their Internet service, i.e. ADSL Internet. While manning the iHelp phones I have recently taken calls from several members who suddenly found they had no ADSL Internet. In one case NBN is available, but the member wants to continue with ADSL as long as possible. In other cases NBN hasn't yet reached the member's house, so ADSL is his best option.

As an aside, if you are currently using the old Telstra copper wire phone network, that service will continue to work for 18 months after NBN first becomes available. But if you are currently using the old Optus cable network you have a far shorter period to switch over before your existing service is shut down (home phone as well as Internet service).



*Modern RJ11 telephone socket*

I have had similar experience myself. Two years ago I lost my ADSL service, supplied by an Internet Service Provider who uses Telstra's old phone lines. In my case the service was restored a day later, and every time I rebooted my modem I got the expected Internet download speed. But over a matter of hours or days the speed would drop to 10% or less of that figure. It took dozens of phone calls and emails over a three-month period before a technician climbed a ladder and identified a

defective connection between the phone lines along the street, and the branch line to my house. I suspect the telephone companies are minimising the amount of maintenance they do on the network that will become obsolete in the near future, either because of the amount of effort they have to put into the NBN switchover, or just to save money.

So if your ADSL service stops working, or doesn't work properly, what do you do?

The first step for most computer faults is to reboot the program that isn't working, and then reboot the computer. In the case of Internet problems also reboot your router/modem.

Next, you can try ringing your Internet Service Provider's support desk. If your ISP is a third party that rents space on the Telstra network, it is no use contacting Telstra even though they own the phone line you are using - you have to deal with your ISP. If Telstra have to be contacted, Telstra will only listen to the ISP, not you. But quite often your ISP's helpdesk won't be able to remotely diagnose the problem.

Before you demand a technician visit (to diagnose the problem), you must work out where it is located, i.e. who is responsible for the repairs. Because if a technician visits and finds the equipment you are responsible for is at fault, you will receive quite a large bill for the visit.

So what are you responsible for? Your ISP has to maintain the exchange equipment, wires down the street, branch line to your house and all the components in or under your house up to the first telephone socket (you will probably find that socket on a skirting board inside the house).

You are responsible for the wiring in your walls to any subsequent telephone sockets, and for all the equipment plugged into the socket, such as computer, modem/router, filters, cables etc. If your ISP supplied any of this equipment such as modem or cables, that is

treated quite differently to the external line up to the first socket. Once you identify that some of this latter equipment is faulty, if it is still in warranty talk to whoever supplied it. But if you order a technician visit and he finds any components you are responsible for, is faulty, you will be up for the cost of the visit even if your ISP has to replace it under warranty - the warranty covers the cost of the item, but not the technician's fee to visit and diagnose the fault.

How do you prove all your equipment is working properly?

If you have a spare (e.g. old) computer or can borrow one, try hooking it up and see if the Internet then works. Same for every other component from the first wall plug onwards, such as cables, filters, modems. If you don't have spare components for these tests, can you unplug the cable from the wall socket, then take all the cables, modems, computer, filters to a computer repair shop for testing. Their charges should be a lot less than the call out fee for your ISP's technician. Or take this bundle to another house and see if these components will work there (obviously only feasible if that house also has ADSL rather than



*Old 600 series telephone socket*



NBN or cable). That will be easier if it is a laptop than if it is a desktop, but some reconfiguration will still be necessary.

Once you have proven all your equipment is working properly, you can then hound your ISP for a technician visit. As I indicated at that beginning of this article, that might be a painful exercise. How big a nuisance can you make of yourself? You can try threatening to switch to another ISP, but I am uncertain how much traction that will get. I have tried writing embarrassing posts on forums like Whirlpool, but

apparently quite a few ISPs don't bother reading Whirlpool. I don't know if any of them monitor social media. Or try the TIO. Incidentally, if anyone knows an ISP who gives good technical support I would like to hear who that is.

But getting repairs done isn't always a major exercise - someone I know who is scheduled to get NBN before July recently lost his home phone, due to something in the street. Less than a week after reporting it, the phone service is working again (he doesn't have Internet).

## From the librarian

# More eBooks in the Library

*Clemens Pratt*

The following ebooks have been obtained from Bookboon. Electronic copies have been placed on PC1 at Moorabbin. Members can take selected copies onto USB memory sticks. Otherwise you can go to the Bookboon website and download your own copies.

Java 1 Basic syntax & semantics	2017	4,602KB	135 pages	Klausen, P.
Java 2 Programs with a graphical user interface	2017	7,995KB	140 pages	Klausen, P.
Artificial Intelligence - Agents and Environments	2010	10,088KB	168 pages	Teahan, W. J.
Artificial Intelligence - Agent Behaviour	2014	4,829KB	257 pages	Teahan, W. J.
Systems Analysis and Design	2016	4,028KB	147 pages	Gould, H.
Java 3 Object oriented programming	2017	5,430KB	174 pages	Klausen, P.
C# No 1 Introduction to programming & the C# language	2015	5,630KB	289 pages	Klausen, P.
Automation and Robotics	2014	4,742KB	127 pages	Boboulos, M. A.
Java 11 Web applications and Java EE	2017	10,093KB	212 pages	Klausen, P.
Microsoft Office Excel 2007	2014	4,876KB	141 pages	Frandsen, T. L.
Java 5 Files and Java IO	2017	5,503KB	214 pages	Klausen, P.
Object Oriented Programming Using Java	2014	4,544KB	216 pages	Kendal, S.
Word 2010 Advanced: Part 1	2014	5,091KB	121 pages	Moffat, S.
Java 17 More About Java and Android	2018	5,552KB	147 pages	Klausen, P.
Java: The Fundamentals of Objects and Classes	2009	3,580KB	92 pages	Etheridge, D.
Java 4: Java's type system and collection classes	2017	3,879KB	179 pages	Klausen, P.
Introduction to Web Services with Java	2015	4,549KB	177 pages	Tran, K. T.
Java: Graphical User Interfaces	2009	3,724KB	101 pages	Etheridge, D.
Java 13: Distributed Programming & Java EE	2018	11,785KB	228 pages	Klausen, P.
An Introduction to Relational Database Theory	2014	4,420KB	235 pages	Darwen, H.

## Stand-in editor needed!

I am going to be overseas during all of April, and will not be able to produce the May edition of PC Update (I will barely be able to complete April). So we need someone to step up and do May. The magazine is produced with LibreOffice Writer, which is free and will run on just about any operating system. I will provide a template with all the styles defined, and possibly a few articles already done. Happy to meet and train. - David Stonier-Gibson

## President's Report January 18th 2019

*John Hall, President*

### ***"SECURING OUR FUTURE" in Moorabbin***

Welcome to the first "President's Report" of 2019.

Whilst another year is starting you will notice that I have left the first heading in this report exactly the same as the last report in 2018 – namely "Securing our future in Moorabbin".

As our new Committee is largely Moorabbin-based I am very hopeful that this year we will see many initiatives that were difficult to implement by previous Committee's will at last be implemented.

The objectives below are those which we have discussed in Committees in the past but if you have any other items that you think need to be addressed please address them to [committee@melbpc.org.au](mailto:committee@melbpc.org.au) and we will discuss them at our next Committee meeting.

### ***"PROMOTION and USAGE" of the Moorabbin Building by SIG Groups***

As stated last month, we need to start using the Systems that we have implemented over the past 2 years to encourage the use of our Moorabbin Premises.

One way to do this is to insist that every SIG that meets in Moorabbin should publish an Agenda for their upcoming Meeting via the CiviEvent Module of CiviCRM.

These "Meeting Agendas" could then be automatically published on our web site in the same way that the Genealogical Society of Victoria publishes theirs (see right hand column of their Web Page – 'All Events' – which is generated automatically from CiviCRM – viz <https://www.gsv.org.au/>).

In order to "lead the way" on this I have taken over as Convenor of the "Video Inner East" SIG and will be holding SIG Meetings in Moorabbin on the second Monday of each month and Stephen Zuluaga is going to set up a "CiviEVENT" for this which can be used as a Template for \*ALL other Meetings in Moorabbin (including the \*Main Monthly Meeting I would hope).

This new group will simply be called the "Video Production Group" and we have already formed a "Steering Committee" which contains 3 Members who live near Moorabbin – namely Roger Wragg, Barry Sheedy and John Thomson who will be providing input to the upcoming Meeting

Agendas so that we can cover all aspects of Video Production from Video Equipment (John Thomson), Video Editing Software (Roger Wragg and myself) to the "Art of Video" (Barry Sheedy).

If you feel that you have a particular skill that you could bring to this Group we would love to hear from you.



### ***Safety and Security in Moorabbin***

We are making every effort to increase the usage of our Moorabbin premises by making every available area open to ALL of our Members – including our Main Rooms, Small SIG Room and our downstairs Workshop – (rather than keeping these rooms for the sole use of one SIG Group or another).

As our Workshop area in particular has lathes and other equipment we must ensure that these premises are used by a minimum of 2 people and that we know exactly who is on site at all times in case of an emergency evacuation etc.

This is true of our main rooms too and we will start there by installing a Membership Badge Reader so that all Members can scan the QR Code on their Membership badge as they enter the building.

We will also be upgrading our Security Camera System so that the Cameras can be viewed remotely in case an alarm is set off (Security or Fire Alarm).

We understand that this might seem to be a bit restrictive compared to the current freedom to come and go at Moorabbin but we hope that you will understand that as we have a duty of care for our Members that our Committee has an obligation to comply with the Health and Safety Rules that apply to a premises such as ours.

### ***Summary***

In summary, 2019 should be a significant year for our Club – provided that we can implement the changes that we have outlined above and I am looking forward to working with our young and enthusiastic Committee in improving our facilities for the benefit of all of our Members.



## East SIG Report – December 2018

Neil Muller

Unfortunately the traditional pre meeting Christmas BBQ was cancelled this year due to a weather forecast predicting extreme storms. The storms did eventuate but not at the time of the BBQ. However a feast of nibbles and drinks were had indoors enabling members to mingle and chat.

A shortened meeting followed, commencing with Q&A conducted by **George Skarbek**.

Q: I plan to build a desktop computer for my wife over the break and can't decide whether I should use an Intel or AMD CPU? The computer will be used for Office programs, internet and email but also for some turn-based games such as Civilization. I plan to use a dedicated graphics card rather than on board graphics.

*an 8 core AMD Ryzen CPU with multithreading gives the equivalent of 16 CPU cores*

A: I recently went with an AMD Ryzen CPU when building my new PC. For a much lower price I was able to get the same performance as an Intel CPU. There are a few provisos however. You said you were going to get a graphics card. AMD CPUs come with or without graphics on the chip. Having graphics on the CPU is not as good as an expensive Graphics card, but certainly good enough for most use. The two types of CPUs are around the same price and on most PCs you can get near the same performance with on board graphics due to multithreading. For example, an 8 core AMD Ryzen CPU with multithreading gives the equivalent of 16 CPU cores. To see which cores are being used, open Windows Task Manager, select Performance and right click on the graph of the CPU. When editing videos or using programs such as Photoshop most CPU cores will be in use, whereas a program like Excel will use only one core.

Q: I occasionally get large files of up to 15MB sent to me by email. When I go to send them on I run into 2 problems, the first being the size

*When editing videos or using programs such as Photoshop most CPU cores will be in use, whereas a program like Excel will use only one core*

of the attachments. The Optus helpdesk advised me files can be of any size whereas Optus webmail has a size limit of 10MB. Optus also suggested I use Microsoft Outlook, which I'm currently using anyway. Recently I sent on a 14MB file which was received 27 times. When I looked at my outbox it showed the file was still being sent. The file concerned was a PowerPoint hence I wonder whether this is a problem with Outlook or MS Office?

A: Reply from an audience member: Normally the upload speed is a tenth of the download speed, unless you're on NBN, so could that be the cause?

George: That would not explain why so many copies of the same emails were received. The problems most likely

something to do with the Optus server handling a certain type of capacity. Webmail and Outlook will go through the same server, so the limit is on the server which Optus told you is 10MB. With your Melb PC Office 365 account you have at least 1 TB of storage. Upload your file to the cloud, either OneDrive, Google Drive, Dropbox etc., mark the file as private and set a password. Next email a link and password to your receiver for them to download the file from your cloud storage.

Alternatively a file splitter program is a second solution to this problem. I don't think this an Office or Outlook problem but a server problem. However I cannot explain why so many copies of the same email were received.

Q: I also have an email problem with large attachments. When I tried to send 2 large files of a total size of 46MB in one email, the email failed to send. I then tried sending the files separately and those emails also failed to go through. As the receiver only needed the first page of one of the pdf files, I extracted the single page. When I tried to send that ½ MB attachment that email also failed to go through. I'm running Outlook and my ISP is TPG and the email is directed to a Gmail account. Have you any thoughts that could help here?

A: It doesn't make sense that the ½ MB file could not be sent. I'd try a reboot and see if that helps. The server limit is the likely cause why the large files could not be sent.

Q: My daughter has a Gmail account and when she sends emails to my TPG email address they don't arrive. When the same email is sent to my Melb PC account her emails arrive without any problems. A recent example of this occurrence was an email with a very small MYOB account attachment. Do you have any ideas why this might happen?

A: There could be a number of causes. TPG may think the email is spam, is offensive, is infected, is too big or again it could be a server issue. I'd talk to your ISP to resolve your problem. You may even find that the email may have arrived in your junk folder so it's worth looking there for the email.

Q: I use Thunderbird for emails and until recently could

save and forward emails with large file attachments. Lately Thunderbird won't allow me to save emails with large attachments. Any thoughts on what could be the cause?

A: I don't think it's a physical storage problem. Try sending some large files to yourself. Start at 8MB, 10MB, 12MB etc. to see what the limit is and then talk to your ISP. I don't think the cause is a hardware problem but the server at the other end.

*“Is privacy dead?”*

Reply from an audience member: A recent version of Thunderbird had problems so check you have the latest version and that may solve your problem.

After Q&A **Stuart Bedford** posed the question “Is privacy dead?”. Stuart then detailed how we are being tracked every day via our mobile phone, CCTV cameras, ATMs, Supermarkets, Reward cards, service stations, Police using number plate recognition and apps such as Facebook. The

conclusion was “Privacy is dead”.

Following on from Stuart was a presentation by **George Skarbek** on “What's New?”. George covered a broad range of topics including software licence agreements, the Chinese lunar lander, taking samples from a nearby asteroid, Japan's first 8K TV broadcast, Samsung's new 8 nanometre chip, the latest developments in parachute technology, the current definition for 1kg, a Seiko's watch incorporating GPS and leap-second correction and an aircraft that flies without fuel or any moving parts and finally how NASA plans to send a spacecraft to Mercury.

**Frank Maher** standing in for convenor **Paul Woolard** thanked everyone involved in a successful 2018 and wished members a Merry Christmas and a safe and happy new year. Normal meetings will resume on the second Thursday in February 2019.

## Reports

### Northern Suburbs Linux SIG – January 2019

*Paul Addis*

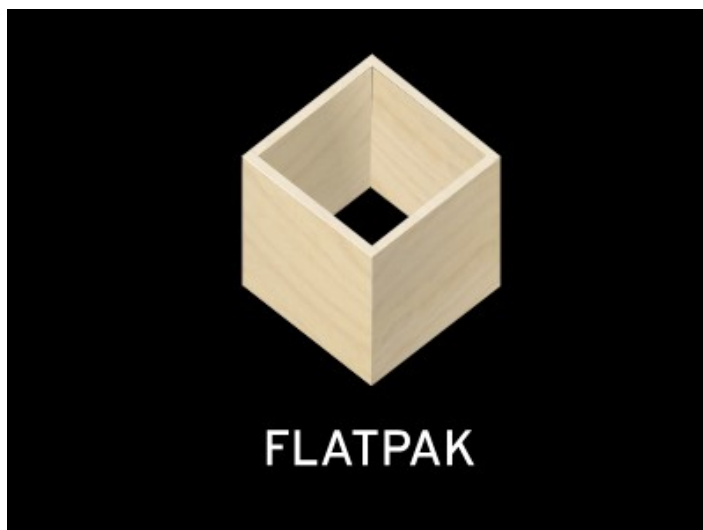
**Our first meeting of 2019 was opened with Linux News that gave us the illusion of time travel, because it was all about the initial competition for the IBM Personal Computer in 1983. The video was from 8-bit Guy, who has a lively and informative style.**

The two competitors who were first out of the box were Compaq and Hyperion, and they built IBM-compatible computers without infringing patents or copyright because the IBM machines used all commercially-available components. The only proprietary item was the BIOS, and that problem could be circumvented by developing an equivalent.

Compaq was founded by three former Texas Instruments employees; there was no comment about who founded Hyperion. There was some commentary about the external cases of the two machine types, in particular comparing the “portable” versions to the IBM version. Apparently, Hyperion had some problems with reliability of their machines and with product support; problems that were not experienced by Compaq.

One of the areas that was seriously competitive was the screen display, with the MDA and CGA technologies each having advantages and disadvantages. Compaq produced a “portable” computer that was about 25% cheaper than the IBM portable, and it stockpiled those machines against the possibility that IBM would have supply problems. When the supply problems did happen, Compaq was able to sell off its stock-pile and went on to be a very successful personal computer supplier.

The Open Forum session started with a comment that use of the Internet was not very widespread in Australia when



it first became available. An example was given of Telstra Research, which in 1991-92 had some 700 employees and a comprehensive internal Ethernet network, but it only had a single 9.6Kb connection to the Internet shared by all employees.

Concerns were expressed about the failure of Apple devices (iPhones etc.) because of cracked screens, and the Apple policy of not fully supporting devices that had been repaired outside the Apple ecosystem. A US court struck down the Apple attempt to prevent user repairs, but subtler tactics were used after that decision.

There was a short discussion about the ability to scan doc-

uments on a WiFi-connected printer. In many cases, the printer sets up its own WiFi Access Point, and there should not be a problem in communication.

And so.... To the first Social Break of the meeting year.

And then....to the first main presentation of the meeting year too.

The presenter was David Hatton and the topic was “An Introduction to Linux Flatpaks”.

The Linux Flatpak does not need Allen keys or construction diagrams, but does require the app developer and the user to follow a process. It is a framework for distributing apps on Linux. It is open source and the work is done by an independent group, with the program originating from the X development group (XDG) and promoted by Red Hat/Fedora. The technical requirements are that apps should meet some of the freedesktop standards.

Flatpak apps can be installed on 18 major distributions currently. They come in two parts: the app, with any exclusive libraries; and the runtime components, that can be shared with other apps. The apps can be installed for only one user (e.g. for testing), or for all users (perhaps for production).

The apps. are “sand-boxed”, running independently of other apps and not aware of them. In that respect they have some similarities to containers and the Snaps available with Ubuntu. The runtimes and apps. do not depend on distribution versions.

A Flatpak installed as a single user version will put the Flatpak files in the users’ home directory at

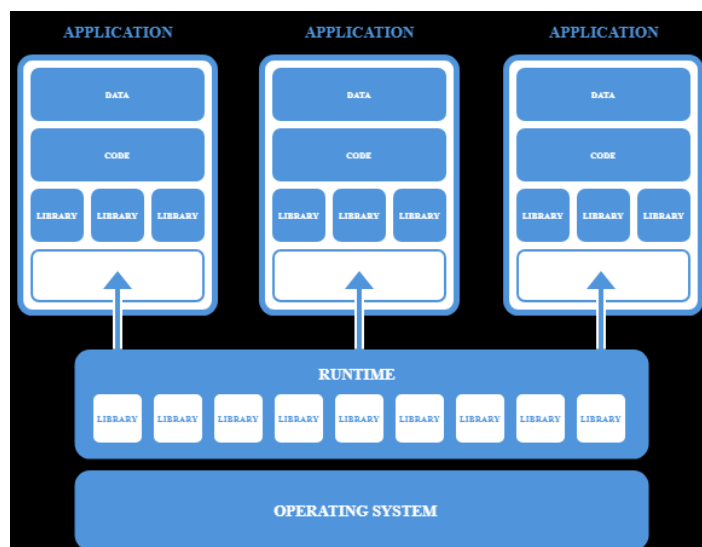
`~/local/share/flatpack,`

a multiuser version has flatpak files installed in

`/var/lib/flatpack`

A flatpack and runtimes are identified by a three-part name in the format Com.Author.Appname. For example: LibreOffice has the Flatpak name: `org.LibreOffice.LibreOffice`

The flatpak website at <http://docs.flatpak.org/en/latest/> has some well written documentation, including the diagram shown next..



*Flatpak environment*

The advantages claimed for Flatpaks include:

- One app can be distributed it to the entire Linux desktop market.
- Apps are developed and tested in an environment that’s identical to the one users have.
- Flatpak’s build tools are simple and easy to use and come with a full set of documentation.
- The app can be available to a rapidly growing audience of Flatpak users, with Flathub.
- Runtimes provide platforms of common libraries that can be depended on.
- Flatpak makes it easy to bundle unique libraries as part of the app.
- Flatpak apps continue to be compatible with new versions of Linux distributions.
- Flatpak is developed by an independent community, with no lock-in to a single vendor.

At the end of the presentation there were comments that the Linux community should be co-operating to build a single platform to handle Flatpack-style apps, rather than allowing competitive platforms to operate in the market. But that is a subject for the future, and time travel is not with us .... Yet!

## Brain teaser

### **Problem :**

We have 10 identical bottles of identical pills (each bottle contain hundred of pills). Out of 10 bottles 9 have 1 gram of pills but 1 bottle has pills of weight of 1.1 gram. Given a measurement scale, how would you find the heavy bottle? You can use the scale only once.

### **Answer:**

First, arrange the bottles on shelf and now take, 1 pill from

the first bottle, 2 pills from the second bottle, 3 pills from the third bottle, and so on. Ideally you would have  $(10) \times (11) / 2 = 55$  pills weighing 55 grams, when you put the entire pile of pills on the weighing scale. The deviation from 55 g would tell you which bottle contains the heavy pills.

If it is .1 gram more, it is 1st bottle which has heavy pill, if it is .2 more, gram 2nd bottle has heavy pills, if it is .3 more, gram 3rd bottle has heavy pills.



# FEBRUARY RAFFLE 2019

**TICKETS: 1 = \$2, 3 = \$5**



Tickets are available for purchase at the Monthly Meeting in Moorabbin.  
The draw will be during the meeting and winners must be present to collect, unless an arrangement is made.

## Google Chromecast 3rd Generation



- The Chromecast connects to your TV via the in-built HDMI port
- It utilises your existing home WiFi network to wirelessly connect to the internet and your devices.
- You can mirror your Android device or your Chrome browser directly on your TV.
- It's easy to control your Chromecast using supported apps on your smartphone, tablet or laptop.

## Comsol 4000mAh Powerbank Black



- You can use it to charge your smartphone, tablet, camera, GPS and more.
- It has a large 4400 mAh capacity.
- It provides up to 140% extra battery life to the average smartphone
- It comes with a micro USB cable to recharge the Powerbank itself.

## SanDisk 32GB USB 3.0 Flash Drive



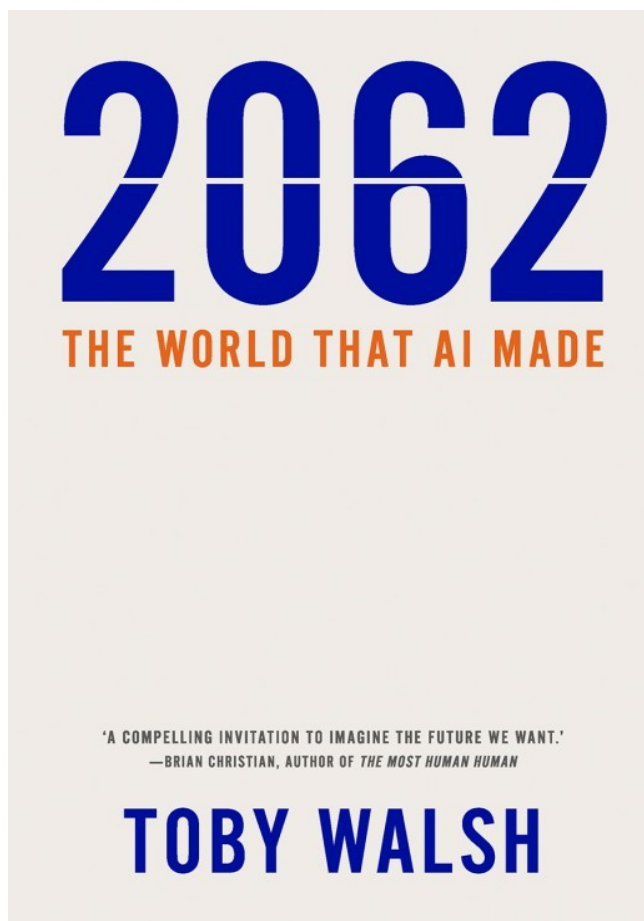
- This flash drive is simple to use, as you simply plug it in and it is ready to go.
- This flash drive is compatible with USB 2.0 ports.
- It has fast transfer speeds of up to 80 MB per second.

## Book review: 2062 The World that AI Made

Tim McQueen

Professor Toby Walsh is one of the 'Rock Stars' of Australia's digital revolution. He is the Scientia Professor of AI at the University of New South Wales and a Fellow of the Australian Academy of Science. In "*2062 the world AI made*" he looks at where Artificial Intelligence may take us by then. There are 11 chapters.

1. **Homo digitalis** traces human evolution of homo sapiens. The development of language meant that knowledge could be more easily shared, and writing meant that knowledge could potentially be shared globally. Turing's work led to the Universal machine and the prospect that machines could learn. Walsh demolishes the 'computers only do what they're told' fallacy, but demonstrates the narrow range of capabilities; for example a computer may learn to play Go better than any human, but that computer cannot learn to play Poker.
2. **The end of us** posits that when people talk loosely of AI they probably have AGI (Artificial General Intelligence) in mind, and that's a long way off. He dismisses the idea of the technological singularity when computers become smarter than people. Past experience, the law of diminishing returns and computational complexity all show that the technological singularity is unlikely to ever occur.
3. **The end of consciousness** looks at the 'hard problem'. If we cannot explain consciousness, how can we know that any computer can develop or has developed it? Walsh looks at issues including pain, free will, ethics and death.
4. **The end of work.** He cites the biases inherent in the training data used in AI, as we saw in Ellen Broad's *Made by Humans* which was reviewed in December 2018's PC Update. Walsh feels that automation won't take over all current occupations, but it will affect most, and fewer workers will be required across the



board. We need to have alternatives to our current concept of work.

5. **The end of war.** Walsh has been a major voice raised against the development and deployment of Lethal Autonomous Weapons (LAWs). I get the impression that he is not impressed with the current Government's lack of enthusiasm for a ban on LAWs.
6. **The end of human values.** He again looks at the problems of bias, fairness and transparency in training AI.
7. **The end of equality.** This covers the gig economy, zero hour contracts and the like.
8. **The end of privacy.** This is another concern that has been canvassed extensively. We should own our private data and have the right to decide where and how it is used.
9. **The end of politics.** In this chapter, Walsh examines how politics is already being influenced by technology with fake news, Cambridge Analytica and the prospect of Mark Zuckerberg as POTUS.
10. **The end of the west.** Russia and China already have huge and increasing investment in AI.
11. **The end.** He sees the world of 2062 requiring new laws, new corporations, new politics, new economics: a new society. This may well bring us to a better future.

*2062 the world AI made* is a thought-provoking book that covers some well-trodden ground but has a different take on how we should be approaching the development of AI.

# Special Interest Groups – All details

## Special Interest Groups

Data Source: data-source for SIG-List

Updated: 30-Jan-2019 - 12:08

**Amendments:** Please advise changes/corrections to: [calendar-admin@melbpc.org.au](mailto:calendar-admin@melbpc.org.au)

**Recent changes are at:** <http://www.melbpc.org.au/index.php/sigs/about/recent-changes>

## Access (database) and Excel

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Mon of month (inc. Public Holidays)</b>
<b>Dec</b>	<b>Second Mon of month</b>
Time	6:30pm - 8:30pm
Email	<a href="mailto:access@melbpc.org.au">access@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Craig Evans <a href="mailto:craig_evans@racv.com.au">craig_evans@racv.com.au</a>

## Bayside

<b>Date Jan</b>	<b>Third Thu of month</b>
<b>Feb-Nov</b>	<b>Third Thu of month</b>
<b>Dec</b>	<b>Third Thu of month</b>
Time	10am - 12noon
Email	<a href="mailto:bayside@melbpc.org.au">bayside@melbpc.org.au</a>
Location	St Stephens Church Hall, 111 North Road (cnr Cochrane St), <b>Brighton</b> Melway:67.F7
Convenor(s)	Peter Carpenter - 9596 3441 Brian Fergie Les Johnston

## Beginners East (BEAST)

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Third Sun of month</b>
<b>Dec</b>	<b>Third Sun of month</b>
Time	10am - 12noon
Email	<a href="mailto:beast@melbpc.org.au">beast@melbpc.org.au</a>
Location	Vermont South Community Centre, 1 Karobran Drive, <b>Vermont South</b> Melway:62.G7
Convenor(s)	Dave Botherway

## Casey

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Fri of month</b>
<b>Dec</b>	<b>Second Fri of month. (Christmas function - check location/time etc with Convener)</b>
Time	1pm - 3:30pm
Location	Beaconsfield Neighbourhood Centre, 8 O'Neil Road, <b>Beaconsfield</b> Melway:214.A1
Convenor(s)	Phillip Rocke <a href="mailto:philliprocke@optusnet.com.au">philliprocke@optusnet.com.au</a> Helen Ventura Ross Bradbury

## Communications

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Wed of month</b>
<b>Dec</b>	<b>Second Wed of month</b>
Time	7 - 9:30pm
Email	<a href="mailto:phil@melbpc.org.au">phil@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Phil Lew - 0418 567 019

## Digital Images

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Third Fri of month</b>
<b>Dec</b>	<b>No Meeting</b>
Time	10am - 12noon
Location	Wadham House, 52 Wadham Parade, <b>Mount Waverley</b> Melway:61.E12
Convenor(s)	Ian Bock - 9807 3701 <a href="mailto:bockey@melbpc.org.au">bockey@melbpc.org.au</a> George Skarbek

## East

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Thu of month</b>
<b>Dec</b>	<b>Second Thu of month (starts 6:30pm)</b>
Time	7:30pm - 9:30pm
Email	<a href="mailto:east@melbpc.org.au">east@melbpc.org.au</a>
Location	Eley Park Community Centre, 87 Eley Rd, <b>Blackburn South</b> Melway:61.H5
Convenor(s)	Paul Woolard - 9877 1059 Ian Dewhurst - 0438 480 500

## East Workshop & 3D Printing

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Sun of month. NO meeting in May - Mother's Day.</b>
<b>Dec</b>	<b>Second Sun of month</b>
Time	10am - 2pm
Email	<a href="mailto:eastwsh@melbpc.org.au">eastwsh@melbpc.org.au</a>
Location	Wadham House, 52 Wadham Parade, <b>Mount Waverley</b> Melway:61.E12
Convenor(s)	Paul Woolard - 0417 566 209 <a href="mailto:pwoolard@melbpc.org.au">pwoolard@melbpc.org.au</a> John Swale (3D printing) - 0417 530 766



## Essendon - Main meeting

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>First Fri of month</b>
<b>Dec</b>	<b>No Meeting</b>
Time	9:30am - 12noon
Email	<a href="mailto:essendon@melbpc.org.au">essendon@melbpc.org.au</a>
Location	Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), <b>Avondale Heights</b> Melway:27.D6
Convenor(s)	John Guegan - 9317 7114

## Essendon - Open Forum

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Fri of month</b>
<b>Dec</b>	<b>Second Fri of month. (Christmas Function, starts 10:30am)</b>
Time	9:30am - 12noon
Email	<a href="mailto:essendon@melbpc.org.au">essendon@melbpc.org.au</a>
Location	Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), <b>Avondale Heights</b> Melway:27.D6
Convenor(s)	John Guegan - 9317 7114

## Essendon - Various topics

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Third Fri of month</b>
<b>Dec</b>	<b>Second Fri of month</b>
Time	9:30am - 12noon
Email	<a href="mailto:essendon@melbpc.org.au">essendon@melbpc.org.au</a>
Location	Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), <b>Avondale Heights</b> Melway:27.D6
Convenor(s)	John Guegan - 9317 7114

## Everything Apple

<b>Date Jan</b>	<b>Third Tue of month</b>
<b>Feb-Nov</b>	<b>Third Tue of month</b>
<b>Dec</b>	<b>No Meeting</b>
Time	2pm - 4pm
Email	<a href="mailto:everything-apple@melbpc.org.au">everything-apple@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Peter Emery <a href="mailto:everything-apple@ausom.net.au">everything-apple@ausom.net.au</a> Sam Fiumara

## Genealogy East

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Third Sun of month</b>
<b>Dec</b>	<b>Third Sun of month</b>
Time	12:30pm - 2:30pm
Email	<a href="mailto:geneast@melbpc.org.au">geneast@melbpc.org.au</a>
Location	Vermont South Community Centre, 1 Karobran Drive, <b>Vermont South</b> Melway:62.G7
Convenor(s)	Denis Street

## Hardware

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Fri of month</b>
<b>Dec</b>	<b>Second Fri of month</b>
Time	10am - 12noon
Location	Wadham House, 52 Wadham Parade, <b>Mount Waverley</b> Melway:61.E12
Convenor(s)	Kelvin Cording - 9438 1047 <a href="mailto:kcording@bigpond.net.au">kcording@bigpond.net.au</a> John Hall - 9803 2731 <a href="mailto:johnhall@melbpc.org.au">johnhall@melbpc.org.au</a>

## iHelp

<b>Date Jan</b>	<b>Approximately 6 monthly</b>
<b>Feb-Nov</b>	<b>Approximately 6 monthly</b>
<b>Dec</b>	<b>Approximately 6 monthly</b>
Time	7pm - 9pm
Email	<a href="mailto:ihelp@melbpc.org.au">ihelp@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Dave Simpson - 9276 4095

## Investment Tools - WASINT

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Tue of month</b>
<b>Dec</b>	<b>Second Tue of month</b>
Time	10:30am - 12:30pm
Email	<a href="mailto:wasint@melbpc.org.au">wasint@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Richard Solly

## Linux Workshop - Moorabbin

<b>Date Jan</b>	<b>In Recess</b>
<b>Feb-Nov</b>	<b>In Recess</b>
<b>Dec</b>	<b>In Recess</b>
Time	
Email	<a href="mailto:linuxworkshop@melbpc.org.au">linuxworkshop@melbpc.org.au</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	David Hatton

## MACE (Atari Computers)

<b>Date Jan</b>	<b>Third Sun - BBQ - check with Convener for location</b>
<b>Feb-Nov</b>	<b>Third Sun of month</b>
<b>Dec</b>	<b>Third Sun of month</b>
Time	10am - 2pm
Email	<a href="mailto:maceatari@gmail.com">maceatari@gmail.com</a>
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, <b>Moorabbin</b> Melway:78.D8
Convenor(s)	Andrew Boschan <a href="mailto:andrewbosc@gmail.com">andrewbosc@gmail.com</a>

## Microcontroller

**Date Jan** Second Wed of month  
**Feb-Nov** Second Wed of month  
**Dec** Second Wed of month  
Time 7pm - 9:30pm  
Email [microcontroller@melbpc.org.au](mailto:microcontroller@melbpc.org.au)  
Location Melb PC HQ, Level 1, 479 Warrigal Rd,  
**Moorabbin** Melway:78.D8  
Convenor(s) David Stonier-Gibson  
John Hollow - 0417 031 164  
Phil Lew - 0418 567 019

## Microcontroller Workshop

**Date Jan** Second & Fourth Sat of Jan.  
**Feb-Nov** Second & Fourth Sat of month.  
**Dec** Second & Fourth Sat of month.  
Time 12noon - 5pm  
Email [microcontroller-workshop@melbpc.org.au](mailto:microcontroller-workshop@melbpc.org.au)  
Location Melb PC HQ, Level 1, 479 Warrigal Rd,  
**Moorabbin** Melway:78.D8  
Convenor(s) John Shirt - 0409 568 267  
Rob Brown - 0419 285 806

## Mornington Peninsula - General, Q&A

**Date Jan** Third Mon of month  
**Feb-Nov** Third Mon of month  
**Dec** No Meeting  
Time 9:30am - 12noon  
Email [peninsula@melbpc.org.au](mailto:peninsula@melbpc.org.au)  
Location Mornington Community Information and  
Support Centre, 320 Main St,  
**Mornington** Melway:104.E12  
Convenor(s) Terry Said - 0427 750 327  
[dulnain@gmail.com](mailto:dulnain@gmail.com)  
Ian Thomson  
[iaroth@netspace.net.au](mailto:iaroth@netspace.net.au)  
Colin Ackehurst

## Mornington Peninsula - Family History

**Date Jan** Third Mon of month  
**Feb-Nov** Third Mon of month  
**Dec** No Meeting  
Time 1:30pm - 4:30pm  
Email [peninsula@melbpc.org.au](mailto:peninsula@melbpc.org.au)  
Location Mornington Community Information and  
Support Centre, 320 Main St,  
**Mornington** Melway:104.E12  
Convenor(s) Colin Ackehurst  
[colin\\_a\\_ackehurst@bigpond.com](mailto:colin_a_ackehurst@bigpond.com)

## Mornington Pen. Family History: Adv.DNA

**Date Jan** last Wed of month (5th Wed if there  
is one, otherwise 4th Wed)  
**Feb-Nov** last Wed of month (5th Wed if there  
is one, otherwise 4th Wed).  
**Dec** No Meeting  
Time 2pm - 4pm  
Email [peninsula@melbpc.org.au](mailto:peninsula@melbpc.org.au)  
Location Mornington Community Information and

Support Centre, 320 Main St,  
**Mornington** Melway:104.E12  
Colin Ackehurst  
[colin\\_a\\_ackehurst@bigpond.com](mailto:colin_a_ackehurst@bigpond.com)

## Multimedia Home Entertainment

**Date Jan** No Meeting  
**Feb-Nov** First Fri of month  
**Dec** First Fri of month  
Time 10am - 12noon  
Email [MHE@melbpc.org.au](mailto:MHE@melbpc.org.au)  
Location Wadham House, 52 Wadham Parade,  
**Mount Waverley** Melway:61.E12  
Convenor(s) David King  
Kelvin Cording

## Music

**Date Jan** No Meeting  
**Feb-Nov** Third Thu of month - confirm with  
Conevner if meeting is being held  
**Dec** No Meeting  
Time 7:30pm - 9:30pm  
Email [music@melbpc.org.au](mailto:music@melbpc.org.au)  
Location Melb PC HQ, Level 1, 479 Warrigal Rd,  
**Moorabbin** Melway:78.D8  
Convenor(s) Bill Sakell - 0430 566 422  
John Shirt - 0409 568 267

## North East Android

**Date Jan** No Meeting  
**Feb-Nov** Third Wed of month  
**Dec** Second Wed of Dec - join with North  
East Daytime SIG - end-of-year  
breakup  
Time 10am - 12noon  
Email [ne-android@melbpc.org.au](mailto:ne-android@melbpc.org.au)  
Location Hawdon Street Community Hall,  
80 Hawdon Street,  
**Heidelberg** Melway:32.A4  
Convenor(s) Colin Lampshire  
9857 5372 or 0413 640 408  
[lampshir@melbpc.org.au](mailto:lampshir@melbpc.org.au)  
Kelvin Cording - 9438 1047

## North East Daytime and Photography

**Date Jan** No Meeting  
**Feb-Nov** Second Wed of month  
**Dec** Second Wed of month  
Time 10am - 12noon  
Email [neday@melbpc.org.au](mailto:neday@melbpc.org.au)  
Location Hawdon Street Community Hall,  
80 Hawdon Street,  
**Heidelberg** Melway:32.A4  
Convenor(s) Colin Lampshire  
9857 5372 or 0413 640 408  
[lampshir@melbpc.org.au](mailto:lampshir@melbpc.org.au)

## North East Genealogy

**Date Jan** No Meeting  
**Feb-Nov** First Wed of month  
**Dec** First Wed of month  
Time 10am - 12noon  
Email [negen@melbpc.org.au](mailto:negen@melbpc.org.au)  
Location Quest Apartments,  
72-84 Upper Heidelberg Road,  
Ivanhoe Melway:31.E8  
Convenor(s) Lynn. Hammet  
[lynnhammet@gmail.com](mailto:lynnhammet@gmail.com)

## Northern Suburbs Linux

**Date Jan** Third Mon of month  
**Feb-Nov** Third Mon of month  
**Dec** No Meeting  
Time 7:30pm - 9:30pm  
Email [nslig@melbpc.org.au](mailto:nslig@melbpc.org.au)  
Location Community Meeting Room, Watsonia  
Library, 4 Ibbotson St,  
Watsonia Melway:20.E4  
Convenor(s) David Hatton  
Nick Vespo

## Online

**Date Jan** Available online at any time  
**Feb-Nov** Available online at any time  
**Dec** Available online at any time  
Time Available online at any time  
Email [kazkev@melbpc.org.au](mailto:kazkev@melbpc.org.au)  
Location Melb PC Yammer online forum  
Convenor(s) Kevin Martin  
Evening only - 5964 7627  
or 0407 343 162

## Programming

**Date Jan** Suspended, meet only on request.  
**Feb-Nov** Suspended, meet only on request.  
**Dec** Suspended, meet only on request.  
Time By arrangement  
Email [programming@melbpc.org.au](mailto:programming@melbpc.org.au)  
Location Melb PC HQ, Level 1, 479 Warrigal Rd,  
Moorabbin Melway:78.D8  
Convenor(s) John Viney

## Raspberry Pi - Moorabbin

**Date Jan** Second Sat of month  
**Feb-Nov** Second Sat of month  
**Dec** Second Sat of month  
Time 2pm - 4pm  
Email [raspi-moorabbin@melbpc.org.au](mailto:raspi-moorabbin@melbpc.org.au)  
Location Melb PC HQ, Level 1, 479 Warrigal Rd,  
Moorabbin Melway:78.D8  
Convenor(s) Mohan Gupta - 0421-214-081  
Rob Brown - 0419 285 806

## Raspberry Pi - Mt Waverley

**Date Jan** No meeting Jan-2019 (room booking)  
**Feb-Nov** Fourth Fri of month  
**Dec** No Meeting  
Time 10am - 12noon

Email [raspi@melbpc.org.au](mailto:raspi@melbpc.org.au)  
Location Wadham House, 52 Wadham Parade,  
Mount Waverley Melway:61.E12  
Convenor(s) John Hall - 9803 2731  
[johnhall@melbpc.org.au](mailto:johnhall@melbpc.org.au)  
Lance Lloyd - 9884 5559  
[lancelloyd@melbpc.org.au](mailto:lancelloyd@melbpc.org.au)

## Sunbury Daytime - New Users

**Date Jan** No Meeting  
**Feb-Nov** First Thu of month  
**Dec** First Thu of month  
Time 9:30am - 12noon  
Email [sunburydaytime@gmail.com](mailto:sunburydaytime@gmail.com)  
Location Sunbury Senior Citizens Centre (back  
room), 8 O'Shanassy Street,  
Sunbury Melway:382.E4  
Convenor(s) Kevin Hale - 9740 5786

## Sunbury Daytime - Advanced

**Date Jan** No Meeting  
**Feb-Nov** Second Thu of month  
**Dec** Second Thu of month  
Time 9:30am - 12noon  
Email [sunburydaytime@gmail.com](mailto:sunburydaytime@gmail.com)  
Location Sunbury Senior Citizens Centre (back  
room), 8 O'Shanassy Street,  
Sunbury Melway:382.E4  
Convenor(s) Kevin Hale - 9740 5786

## Sunbury Daytime - Main Meeting

**Date Jan** No Meeting  
**Feb-Nov** Third Thu of month  
**Dec** No Meeting  
Time 9:30am - 12noon  
Email [sunburydaytime@gmail.com](mailto:sunburydaytime@gmail.com)  
Location Sunbury Senior Citizens Centre (back  
room), 8 O'Shanassy Street,  
Sunbury Melway:382.E4  
Convenor(s) Kevin Hale - 9740 5786

## Sunbury Daytime - Maintenance & Linux

**Date Jan** No Meeting  
**Feb-Nov** Fourth Thu and Fifth Thu of month.  
**Dec** No Meeting  
Time 9:30am - 12noon  
Email [sunburydaytime@gmail.com](mailto:sunburydaytime@gmail.com)  
Location Sunbury Senior Citizens Centre (back  
room), 8 O'Shanassy Street,  
Sunbury Melway:382.E4  
Convenor(s) Kevin Hale - 9740 5786



## Tech Projects

<b>Date Jan</b>	<b>First &amp; Third Sun of month</b>
<b>Feb-Nov</b>	<b>First &amp; Third Sun of month</b>
<b>Dec</b>	<b>First Sun of Dec (no second meeting in Dec)</b>
<b>Time</b>	1pm - 5pm
<b>Email</b>	<a href="mailto:tech-projects@melbpc.org.au">tech-projects@melbpc.org.au</a>
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	Stephen Zuluaga Dani Martin

## Video Inner East

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Second Mon of month. Note: move to Moorabbin for 2019</b>
<b>Dec</b>	<b>Second Mon of month</b>
<b>Time</b>	7:30pm - 9:30pm
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	John Hall - 9803 2731 <a href="mailto:johnhall@melbpc.org.au">johnhall@melbpc.org.au</a>

## Video Production - Pinnacle

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Fourth Wed of month</b>
<b>Dec</b>	<b>No Meeting</b>
<b>Time</b>	10:00am - 12:30pm
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	Wayne Spicer - (03) 5971 1617 <a href="mailto:spisawn@optusnet.com.au">spisawn@optusnet.com.au</a> Tony Pickup - 9878 0706 <a href="mailto:tonypickup@optusnet.com.au">tonypickup@optusnet.com.au</a>

## Video Production - Sony

<b>Date Jan</b>	<b>Second Wed of month</b>
<b>Feb-Nov</b>	<b>Second Wed of month</b>
<b>Dec</b>	<b>Second Wed of month</b>
<b>Time</b>	10am - 12noon
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	Roger Wragg <a href="mailto:rdwragg@fastmail.fm">rdwragg@fastmail.fm</a>

## WAFFLE - wine & fine food lovers event

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>First Wed of month</b>
<b>Dec</b>	<b>First Wed of month</b>
<b>Time</b>	9:35pm (after the Monthly Meeting)
<b>Email</b>	<a href="mailto:phil@melbpc.org.au">phil@melbpc.org.au</a>
<b>Location</b>	Fong's Chinese Restaurant, 725 Centre Rd (cnr Francesco St), Bentleigh East Melway:77.J1
<b>Convenor(s)</b>	Phil Lew - 0418 567 019 Tom Rado - 0407 955 747 <a href="mailto:trado@melbpc.org.au">trado@melbpc.org.au</a>

## Website Design - Tutorials

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Fourth Sun of month</b>
<b>Dec</b>	<b>No Meeting</b>
<b>Time</b>	2pm - 4pm
<b>Email</b>	<a href="mailto:webdesign@melbpc.org.au">webdesign@melbpc.org.au</a>
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	Fleur Stephens - 0407 330 963

## Website Design - Troubleshooting

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Fourth Sun of month</b>
<b>Dec</b>	<b>No Meeting</b>
<b>Time</b>	4pm - 6pm
<b>Email</b>	<a href="mailto:webdesign@melbpc.org.au">webdesign@melbpc.org.au</a>
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	Fleur Stephens - 0407 330 963

## Windows Plus

<b>Date Jan</b>	<b>No Meeting</b>
<b>Feb-Nov</b>	<b>Third Sat of month</b>
<b>Dec</b>	<b>No Meeting</b>
<b>Time</b>	10am - 12noon
<b>Email</b>	<a href="mailto:winplus@melbpc.org.au">winplus@melbpc.org.au</a>
<b>Location</b>	Melb PC HQ, Level 1, 479 Warrigal Rd, Moorabbin Melway:78.D8
<b>Convenor(s)</b>	John Swale - 0417 530 766 Barry Stone

# February Calendar

V1-updated-30-jan-2019

## SIG & Other Meetings — Feb-2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<b>Legend</b> SIG meeting at Melb PC HQ, Moorabbin. <b>Non-Moorabbin meeting.</b> <b>Cancelled Meeting</b> <b>Changed Meeting To be confirmed</b>	<b>Changes</b> Please advise changes to: <a href="mailto:calendar-admin@melbpc.org.au">calendar-admin@melbpc.org.au</a>		Other SIG (Special Interest Group) information: <a href="https://www.melbpc.org.au/sigs/about/">https://www.melbpc.org.au/sigs/about/</a> Recent Changes: <a href="https://www.melbpc.org.au/sigs/about/recent-changes/">https://www.melbpc.org.au/sigs/about/recent-changes/</a>	<b>Have A Question Post it on Yammer</b> Yammer: <a href="http://yammer.com/melbpc.org.au/">http://yammer.com/melbpc.org.au/</a>	<b>1</b> <b>Essendon SIG</b> <i>Main meeting</i> Avondale Heights 9:30am - 12noon <b>Multimedia Home Entertainment SIG</b> Mount Waverley 10am - 12noon	<b>2</b>
<b>3</b> <b>MelCC – Tech Projects SIG</b> Moorabbin 1pm - 5pm	<b>4</b>	<b>5</b>	<b>6</b> <b>North East Genealogy SIG</b> Quest Apartments, Ivanhoe 10am - 12noon <b>MEETING</b> Melb PC HQ, Moorabbin 7pm - 9:30pm then Supper (WAFFLE) at Fong's 9:35pm	<b>7</b> <b>Sunbury Daytime SIG</b> New Users 9:30am - 12noon	<b>8</b> <b>Essendon SIG</b> <i>Open Forum</i> Avondale Heights 9:30am - 12noon <b>Hardware SIG</b> Mount Waverley 10am - 12noon <b>Casey SIG</b> Beaconsfield 1pm - 3:30pm	<b>Microcontroller Workshop SIG</b> Moorabbin 12noon - 5pm <b>Raspberry Pi – Moorabbin SIG</b> 2pm - 4pm
<b>10</b> <b>East Workshop &amp; 3D Printing SIG</b> Mount Waverley 10am - 2pm	<b>11</b> <b>Access (database) and Excel SIG</b> Moorabbin 6:30pm - 8:30pm <b>Video Inner East SIG</b> Moorabbin (formerly Ashburton) 7:30pm - 9:30pm	<b>12</b> <b>Investment Tools - WASINT SIG</b> Moorabbin 10:30am - 12:30pm	<b>13</b> <b>Video Production – Sony SIG</b> Moorabbin 10am - 12noon <b>North East Daytime &amp; Photography SIG</b> Heidelberg 10am - 12noon <b>Communications SIG</b> Moorabbin 7pm - 9:30pm <b>Microcontroller SIG</b> Moorabbin 7pm - 9:30pm	<b>14</b> <b>Sunbury Daytime SIG</b> <i>Advanced</i> 9:30am - 12noon <b>East SIG</b> Blackburn South 7:30pm - 9:30pm	<b>15</b> <b>Essendon SIG</b> <i>Various topics.</i> Avondale Heights 9:30am - 12noon <b>Digital Images SIG</b> <i>Including Photoshop</i> Mount Waverley 10am - 12noon	<b>16</b> <b>Windows Plus SIG</b> Moorabbin 10am - 12noon
<b>17</b> <b>Beginners East (BEAST) SIG</b> 10am - 12noon <b>MACE (Atari Computers) SIG</b> Moorabbin 10am - 2pm <b>MelCC – Tech Projects SIG</b> Moorabbin 1pm - 5pm <b>Genealogy East SIG</b> Vermont South 12:30pm - 2:30pm	<b>18</b> <b>Mornington Peninsula SIG</b> <i>General inc Q&amp;A</i> Mornington 9:30am - 12noon <i>Family History</i> Mornington 1:30pm - 4:30pm <b>Northern Suburbs Linux SIG</b> Watsonia 7:30pm - 9:30pm	<b>19</b> <b>Everything Apple SIG</b> Moorabbin 2pm - 4pm <b>Melb PC Committee</b> Moorabbin 7pm	<b>20</b> <b>North East Android SIG</b> Heidelberg 10am - 12noon	<b>21</b> <b>Sunbury Daytime SIG</b> <i>Main Meeting</i> 9:30am - 12noon <b>Bayside SIG</b> Brighton 10am - 12noon <b>Music SIG</b> Moorabbin 7:30pm - 9:30pm Please confirm with Convener	<b>22</b> <b>Raspberry Pi - Mt Waverley SIG</b> 10am - 12noon <b>Casey SIG</b> <i>Workshop</i> Beaconsfield <b>Discontinued</b> <b>PC Update</b> <b>Articles Deadline</b>	<b>23</b> <b>Microcontroller Workshop SIG</b> Moorabbin 12noon - 5pm
<b>24</b> <b>Website Design SIG</b> <i>Tutorials</i> Moorabbin 2pm - 4pm <i>Troubleshooting</i> Moorabbin 4pm - 6pm	<b>25</b>	<b>26</b>	<b>27</b> <b>Video Production – Pinnacle SIG</b> Moorabbin 10:00am - 12:30pm <b>Mornington Peninsula SIG</b> <i>Family History – Advanced DNA</i> (LAST Wed of month) Mornington 2pm - 4pm. <b>PC Update</b> <b>Reports deadline</b>	<b>28</b> <b>Sunbury Daytime SIG</b> <i>Maintenance &amp; Linux</i> (Fourth & fifth Thu of month) 9:30am - 12noon		