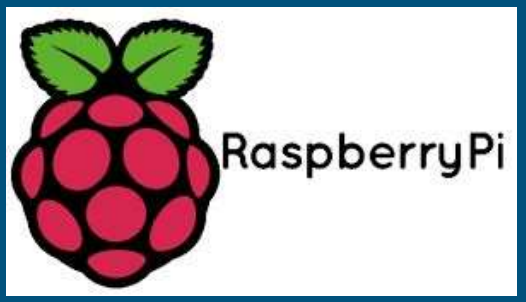



# Riverside Raspberry Pi

11/12/18 meeting

# RivRPi intro

-who we are
-don’t feel you need to stay the whole time

Sponsors:
Thanks to RiversideI/O & Excite for hosting our meetings
http://www.riverside.io/en: co-working space in downtown Riverside
https://exciteriverside.org/: a unique tech business acceleration program: created in collaboration between business leaders, the City and County of Riverside, and the University of California Riverside

# News:


## Riverside Raspberry Pi group might be moving

If you are coming next month, make sure to re-check the location

# Publication:

MagPi: Issue #75 available

(all issues available here: https://www.raspberrypi.org/magpi-issues/)

# Publication:

HackSpace: issue #12 available:

(all issues available https://hackspace.raspberrypi.org/issues)

# Publications:

Two New Project Books: (only for purchase, no PDf available)

The official Raspberry Pi Projects Book - Volume 4 (2019)

https://store.rpipress.cc/collections/books/products/the-official-raspberry-pi-projects-book-volume-4-2018

Book of Making - Volume 1 (2019)

https://store.rpipress.cc/collections/books/products/book-if-making

(all project books: https://store.rpipress.cc/collections/books)

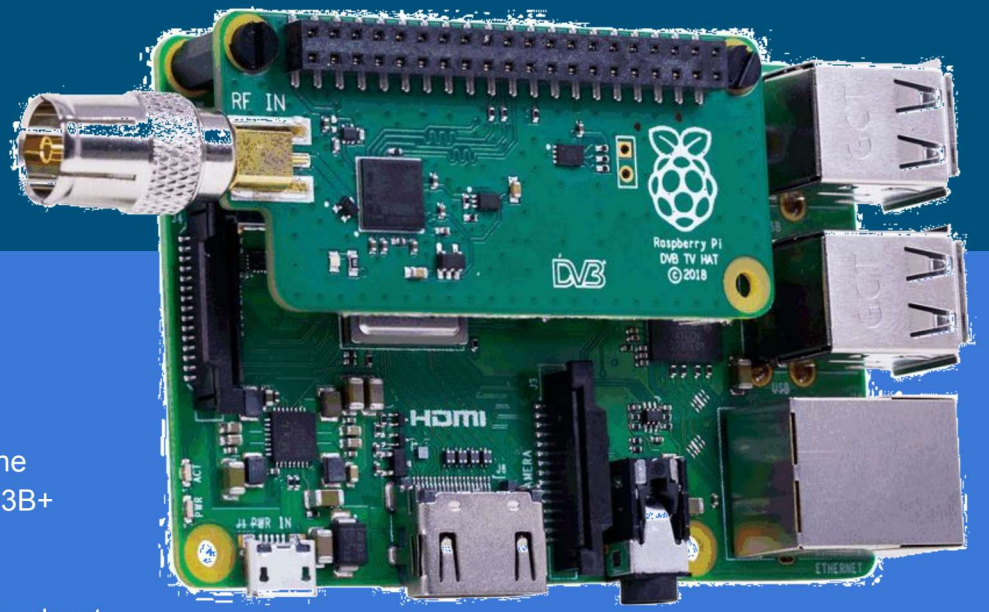
# Pi Project:

Digital Twins on a Raspberry Pi: You can use an open IoT platform to build a digital twin on a Raspberry Pi
https://www.designnews.com/electronics-test/steps-creating-digital-twin/34989275659708

Artificial intelligence (AI) and machine learning (ML) are making major impacts in the healthcare, advanced manufacturing, agriculture, and consumer electronics vertical markets. The ability to predict behaviors and trends or classify objects based on physical traits is accomplished through AI and ML technologies. With the aid of an Internet of Things (IoT) infrastructure, a digital twin can be created. Developing a digital twin requires the meshing of physical properties with an information communication technology (ICT) framework and software for data visualization. This data visualization represents real world events and characteristics of physical objects and processes.


Digital twins integrate artificial intelligence, machine learning and software analytics with spatial network graphs to create living digital simulation models that update and change as their physical counterparts change.
https://en.wikipedia.org/wiki/Digital_twin

# Pi Product:




Raspberry Pi TV HAT ($27)
https://thepihut.com/products/raspberry-pi-tv-hat

The Raspberry Pi TV HAT is a DVB-T2 Digital TV receiver add on for the Raspberry Pi, compatible with the Raspberry Pi Zero  and Rasperry Pi 3B+ (and older Raspberry Pi 2 & 3 models)

The Raspberry Pi TV HAT allows you to receive digital terrestrial TV broadcast systems which includes DVB-T and DVB-T2 on a Raspberry Pi. This means that you can receive and view TV on a Raspberry Pi or create a TV server that allows you to stream received TV over a network to other devices (including PCs, tablets, smartphones (via apps), media centres and more)

# Pi Product:

Useless Nixie Device ($39+ ended 10/23/18)
https://www.indiegogo.com/projects/useless-nixie-device#

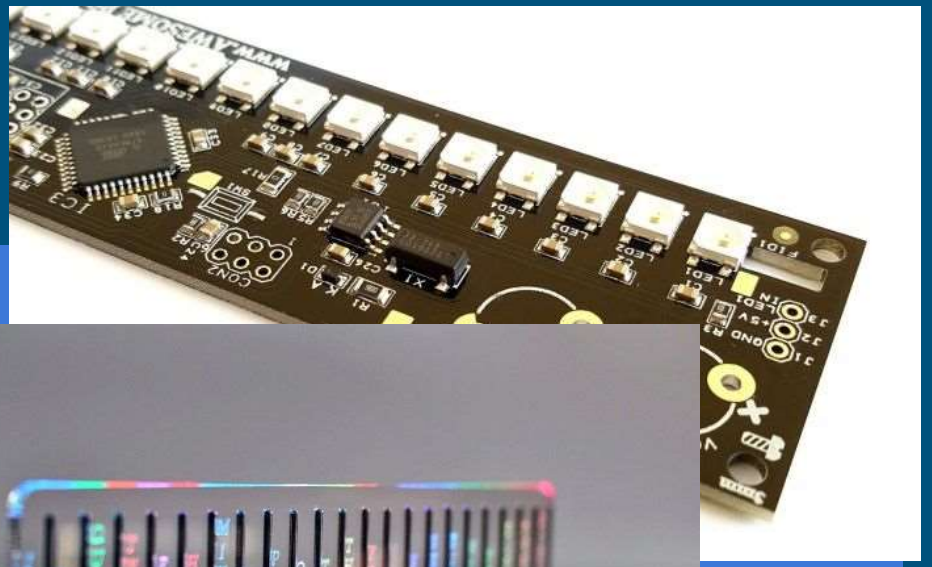
Useless Nixie Device "is a device which has a function but no direct purpose". The device allows you to connect 16 different sockets for several dozen nixie tubes and enjoy to watch your tubes in action. It's perfect devices for your desk.

# Pi Product:

Word Clock (didn’t fund)

https://www.indiegogo.com/projects/word-clock#

Instead of showing the time like in classical type of clock with the hands or numbers, Word Clock shows you a time by displaying the text.



# Other groups:

Other groups that meet at RiversideIO/Excite:
Inland Empire Python User Group (https://www.meetup.com/iepython/)
Riverside Ruby User Group (https://www.meetup.com/Riverside-Ruby-User-Group/)
IE Wordpress (https://www.meetup.com/inlandempirewp/)
StartupIE (https://www.meetup.com/startupie/)
Artificial Intelligence: Kick Ass Discussion in Action (https://www.meetup.com/ArtificialIntelligencekickass/)

Other Tech MeetUps in the IE:
Inland Empire Tech Happy Hour (https://www.meetup.com/ietechies/events/)

Other SoCal groups:
SoCal IT Professional Association (https://www.meetup.com/SoCalITPros/)

# Discussion topic notes from meeting:

member Randall demonstrated Lazarus / Free Pascal (http://wiki.freepascal.org/Lazarus_on_Raspberry_Pi, like Delphi but for the RPi) on a stock RPi enclosed in an  Element 14 box (https://freeradicallabs.com/products/pi-desktop) using a SSD drive for the Pi
-very Visual Basic-ish
-has interface to GPIO pins on the Pi (but he recommends using a Arduino to get millisecond accuracy or better)

ePaper displays
PaPiRus ePaper / eInk Screen HAT for **Raspberry Pi**, 200x?? ($50) https://www.sparkfun.com/products/14825
PaPiRus ePaper / eInk Screen HAT for **Pi Zero**, 264x96 ($35)  https://www.sparkfun.com/products/14826

# Riverside Raspberry Pi

End