





# Closing Games and Prizes

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Core Embedded Linux Project

Linux Foundation

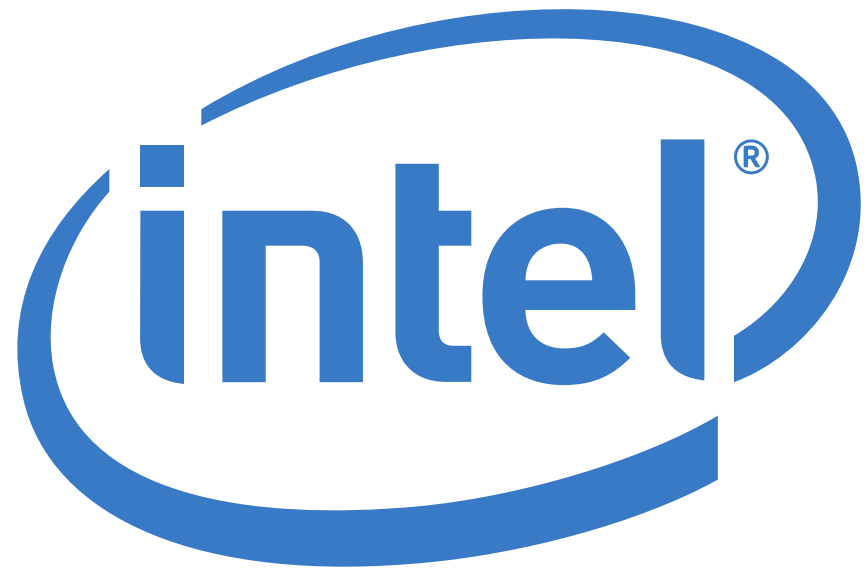
# Thanks are due...

Thanks to everyone who makes this event possible:

- Sponsors



**Diamond  
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# Gold Sponsors







# Silver Sponsors



# Thanks are due...

Thanks to everyone who makes this event possible:

- Sponsors
- Program committee
- Speakers
- Attendees
- Linux Foundation Event Staff



# Some Housekeeping

- Presentation page is available:  
[https://elinux.org/ELCE\\_2019\\_Presentations](https://elinux.org/ELCE_2019_Presentations)
- Speakers – please submit slides to CFP site
  - Don't make us hunt you down!
- We made video recordings of ELC sessions
  - We'll announce when those are available

# Future events

- Embedded Linux Conference 2020
  - June 22-24
  - Austin, Texas
- Embedded Linux Conference Europe 2020
  - October 26-28
  - Dublin, Ireland



# We're going to play some games

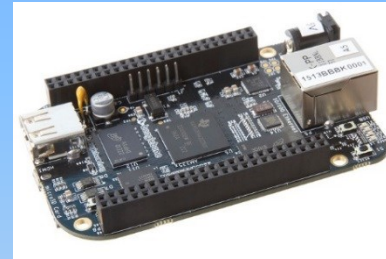
- I like games where everyone has a chance to win
- Types:
  - Skill
  - Luck
- Basic outline:
  - We narrow the contestants down
  - The winners come up and draw for prizes

# What is at stake?

- Prizes
  - Development boards
  - Other stuff

# Development boards!

- Raspberry Pi 3 Cana Starter kits (x2)
- BeagleBone Black (x2)
- Embedded Apprentice  
Linux Engineer  
official Hardware kit  
(PocketBeagle + Techlab)





# More boards

- Phytel Reelboard, with 2 expansion boards (x4)
  - E-ink display, sensors ,Bluetooth, Ethernet
  - Specially designed for Zephyr projects



# More boards

- Beaglebone AI (x2)
- Beaglebone Blue (x2) (robotics)



- PocketBeable, with Techlab add-on board (x2)
  - All donated by BeagleBoard.org Foundation

# Good Stuff!

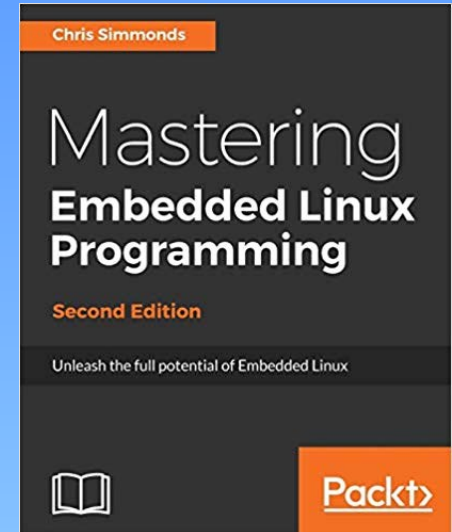
- SONOS home sound system
  - Donated by Nutanix
- Western Digital Passport Pro wireless 4TB hard disk and media server
- Yocto swag
  - Donated by Yocto Project





# More Good stuff:

- Books (x4):  
Mastering Embedded Linux Programming, by Chris Simmonds
- LWN.net subscriptions (x2)
- Sony MP-CD1 mobile projector



\*phone not included

# Our First Game

- Technical and Nerd Trivia

# Our First Game

- Technical and Nerd Trivia

*Important Disclaimer: The game is NOT fair.*



# Warmup Question

What is the latest kernel version available from Linus Torvalds?

- Green = v5.4-rc5
- Red = v5.3

# Answer

- Green = v5.4-rc5

While 5.3 is the current “release” version of the kernel, the latest “release candidate” is available for those who want to test things out ahead of the next release.

# Question - 1

The Minitel service provided the residents of France access to information and the ability to purchase items beginning in the early 1980's, much like the World Wide Web does today. When was Minitel retired?

- Green = Before Jan 1, 2010
- Red = After Jan 1, 2010





# Answer

- Red = After 2010

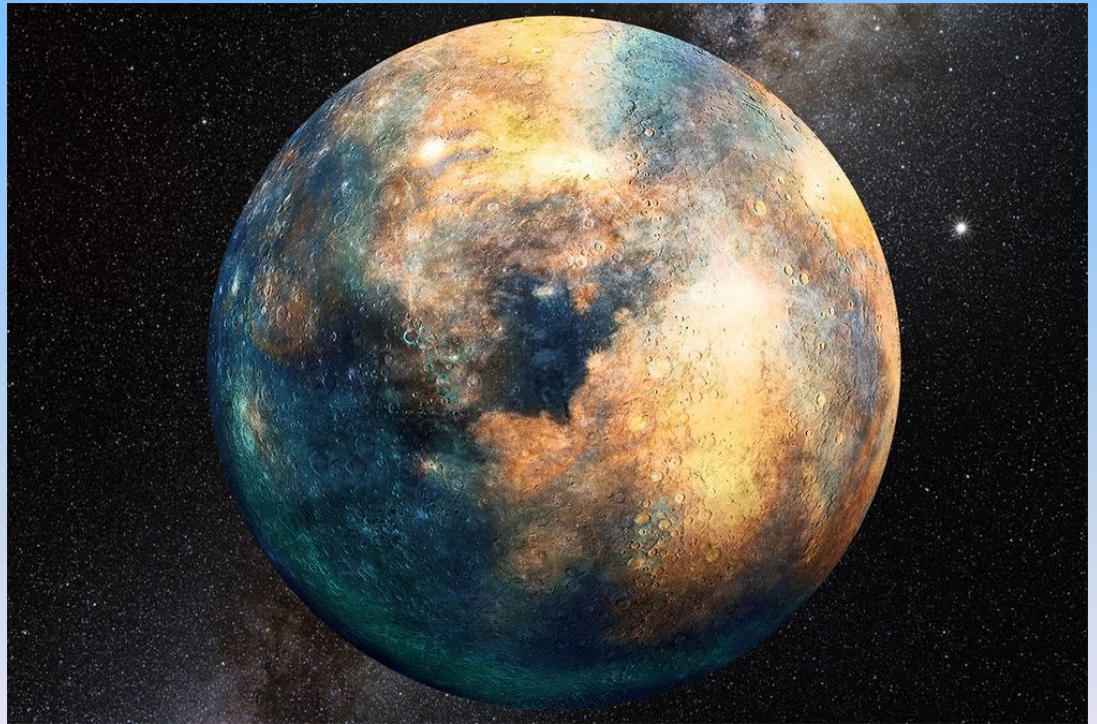
France Telecom retired the service in June 2012.

Source: <https://en.wikipedia.org/wiki/Minitel>

# Question – 2

Linux has landed on only one other planet besides Earth.

- Green = True
- Red = False

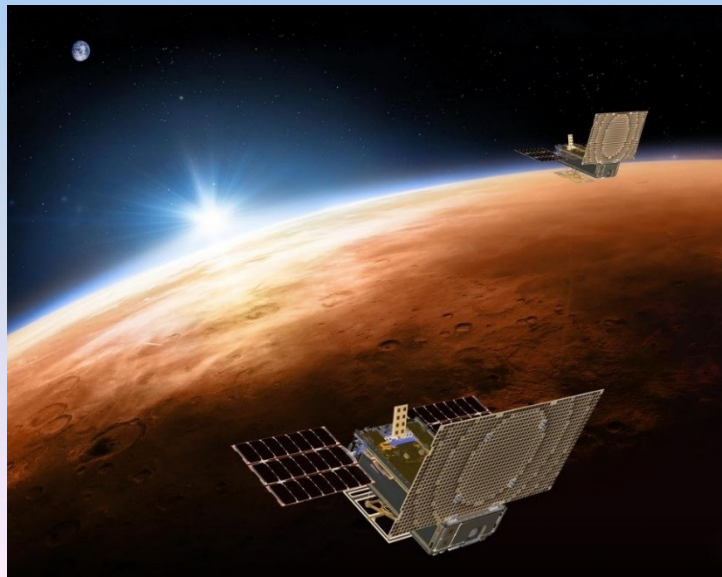


# Answer

- Red = False

Linux was in cube sats that went to Mars (built using Yocto Project), Nov 2018 <http://linuxgizmos.com/cubesats-that-confirmed-mars-insight-landing-feature-embedded-linux-com/>

But these did NOT land on the planet's surface. No lander has used Linux yet.



# Question – 3

On which planet does Rey (from Star Wars) grow up?

- Green = Tatooine
- Red = Jakku



Image by Source (WP:N FCC#4), Fair use,  
<https://en.wikipedia.org/w/index.php?curid=48866421>

# Answer

- Red = Jakku

Jakku was where Rey lived at the start of Episode 7. Tatooine was where Anakin and Luke Skywalker were raised\*.



\*This happened a long time ago, in a galaxy far, far away.



# Question - 4

How many files in the linux 5.4-rc5 kernel have SPDX License ID headers?

- Green = about 36000
- Red = about 48000

# Answer

- Red = about 48000

5.4-rc5 has 48084 files with SPDX license headers from a total of 73,200 --> 66%.

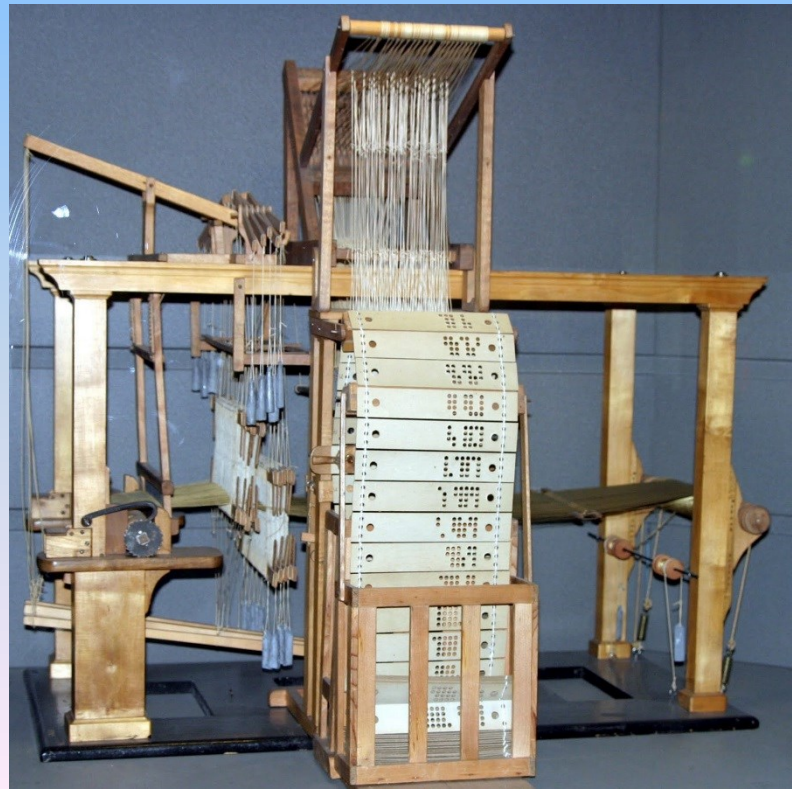
This is up from 5.1.21 which had 35% of the files.

Thanks to Thomas Gleixner and Greg KH for the cleanup work between these releases that landed in 5.2.

# Question - 5

The very first “stored program” machine was a loom that used punched wooden cards to automatically weave fabric designs. This machine was invented in France.

- Green = True
- Red = False



# Answer

- Green = True

Source: <https://www.livescience.com/20718-computer-history.html>

The machine was invented in France in 1801 by Joseph Marie Jacquard. It was actually used here in Lyon in silk fabric production.

# Question - 6

I am Thomas Petazzoni.

- Green = True
- Red = False

*(hold up **Green** only if you are actually Thomas Petazzoni)*



# Answer

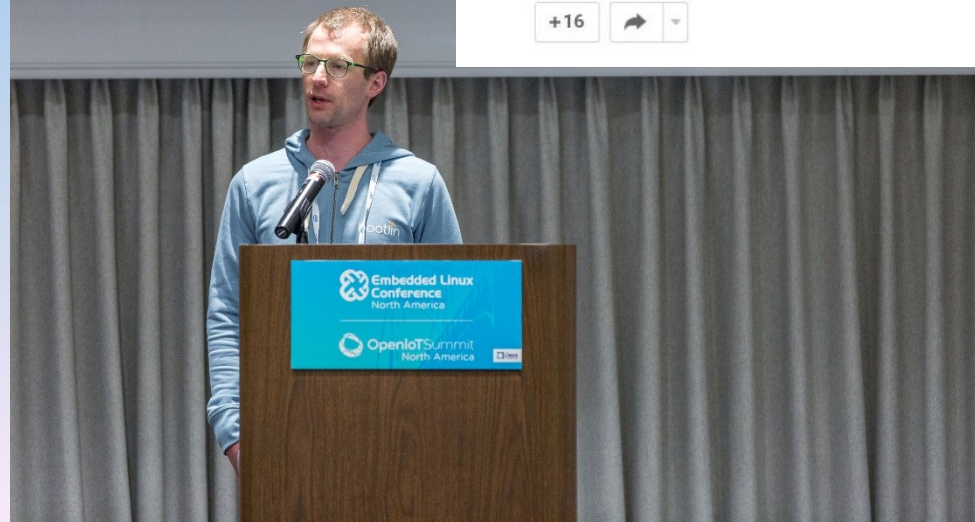
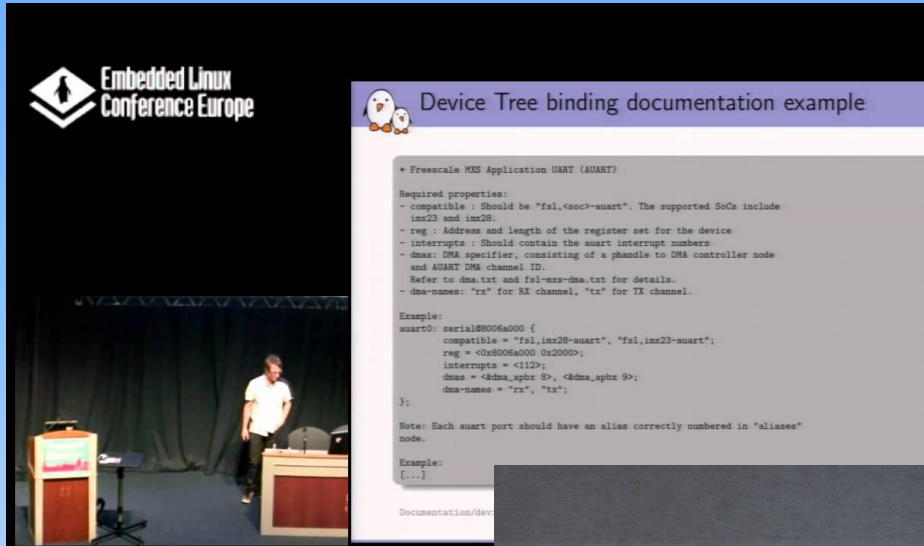
- Green = True

Thomas Petazzoni:

- Involved with ELC for 11 years
- Over 24 presentations and sessions
- Keynote at ELC Europe 2015.
- CTO of bootlin
- One of the top contributors to buildroot
- He leads a bunch of French people.



# More Thomas Petazzoni



# Question - 7

According to Linus Torvald, he wasn't sure he was a good programmer until he wrote what other open source program?

- Green = subsurface
- Red = git



# Answer

- Red = git

Linus gives most of the credit for modern git to Junio Hamano, but creating it reassured him he wasn't a "one-trick pony" with Linux.



# Question - 8

What continent has the highest concentration of Linux users:

- Green = North America
- Red = Eurasia
- Green & Red = None of the above



# Answer

- Green & Red = None of the above

The continent with the highest percentage users of Linux is Antarctica.



# Question - 9

The first Embedded Linux Conference Europe was held in this country:

- Green = The Netherlands
- Red = Austria

# Answer

- Red = Austria

The first ELC Europe  
was held in  
Linz, Austria.

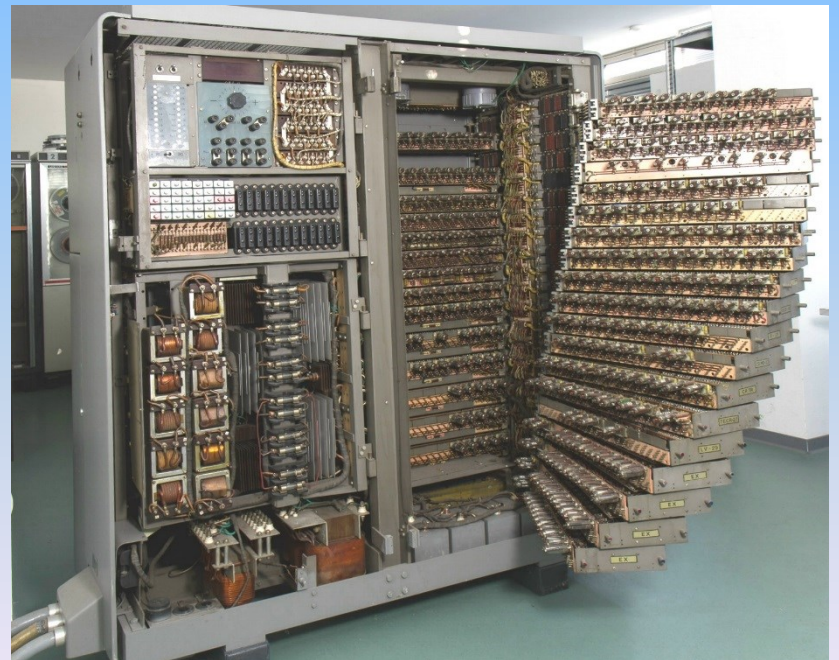


# Question - 10

The first electronic computer produced in France was the Gamma 3 electronic calculator from Compagnie des Machines Bull.

What year was it produced?

- Green = 1952
- Red = 1957



*Image CC-BY-NC 4.0 - technikum29 computer museum*

# Answer

- Green = 1952

Source:

<http://www.historyofinformation.com/detail.php?id=693>



# Question - 11

The GNOME Foundation recently had a patent lawsuit filed against them, by noted patent troll Rothschild Patent Imaging, LCC. Rothschild claims the patent covers the Shotwell image management application. Unfortunately, we will likely see more software patent litigation against Open Source software in the future and there is nothing we can do about it.

- Green = True
- Red = False

# Answer

- Red = False

The Gnome Foundation is fighting back, and trying to invalidate the bogus patent:

<https://www.gnome.org/news/2019/10/gnome-files-defense-against-patent-troll/>

You can help by donating to their defense fund:

<https://secure.givelively.org/donate/gnome-foundation-inc/gnome-patent-troll-defense-fund>

# Question - 12

Linux took over the remaining spots in the top 500 supercomputers (achieving supercomputer world domination) in what year?

- Green = 2015
- Red = 2018

# Answer

- Red = 2018

Linux took over 100% of the top 500 supercomputers last year (2018)

Source: <https://itsfoss.com/linux-runs-top-supercomputers/>

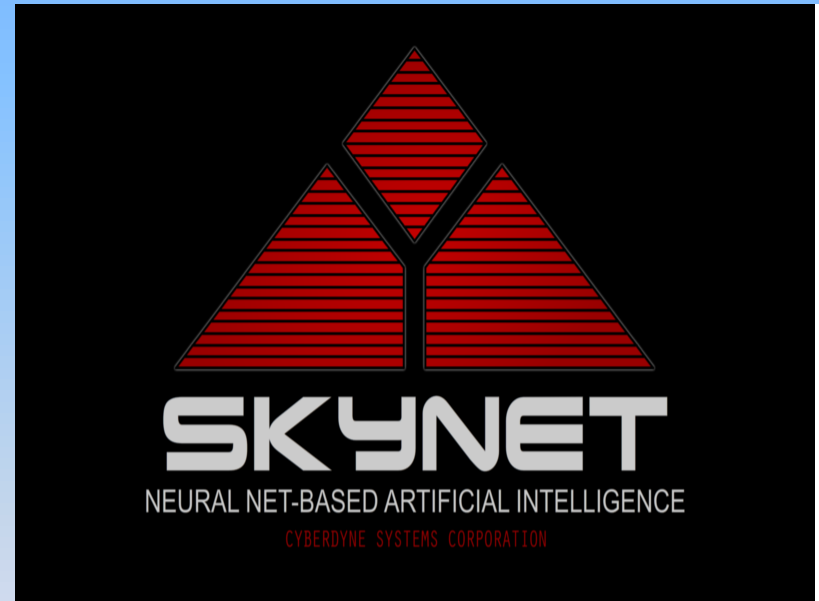


FYI, the current leader (as of June 2019) was IBM's Summit supercomputer (not shown here), with over 2.4 million cores and a peak performance of over 200,000 Teraflops per second.

# Question – 13

The UK military actually has a program called “Skynet”

- Green = True
- Red = False

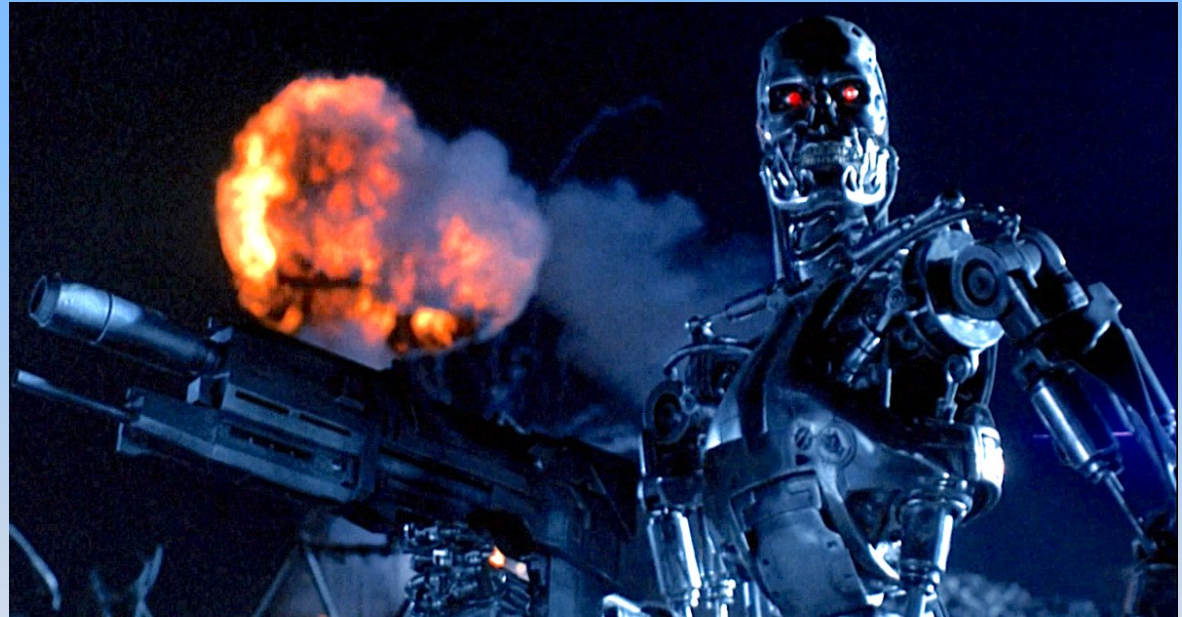




# Answer

- Green = True

What could  
go wrong?



**According to Wikipedia:** Skynet is a family of [military communications satellites](#), now operated by [Airbus Defence and Space](#) on behalf of the [UK Ministry of Defence](#) (It's been operating since 1969, so it predates the Terminator movie series)

# Question -14

The French Micral microcomputer was developed in 1972 as an alternative to the more expensive Digital Equipment PDP-8 minicomputer. The first Micral cost more or less than \$2000?

- Green = More
- Red = Less

# Answer

- Red = Less

It was about 8500 French Francs.

Source: <https://history-computer.com/ModernComputer/Personal/Micral.html>



# Question - 15

- In the famous 2003 IBM "His Name Is Linux" TV commercial, the young blond boy who is absorbing the world's knowledge spoke only two sentences.
  - Green = True
  - Red = False



# Answer

- Red: False

The blond boy did not say a single word.

(BTW – It's still a great commercial)

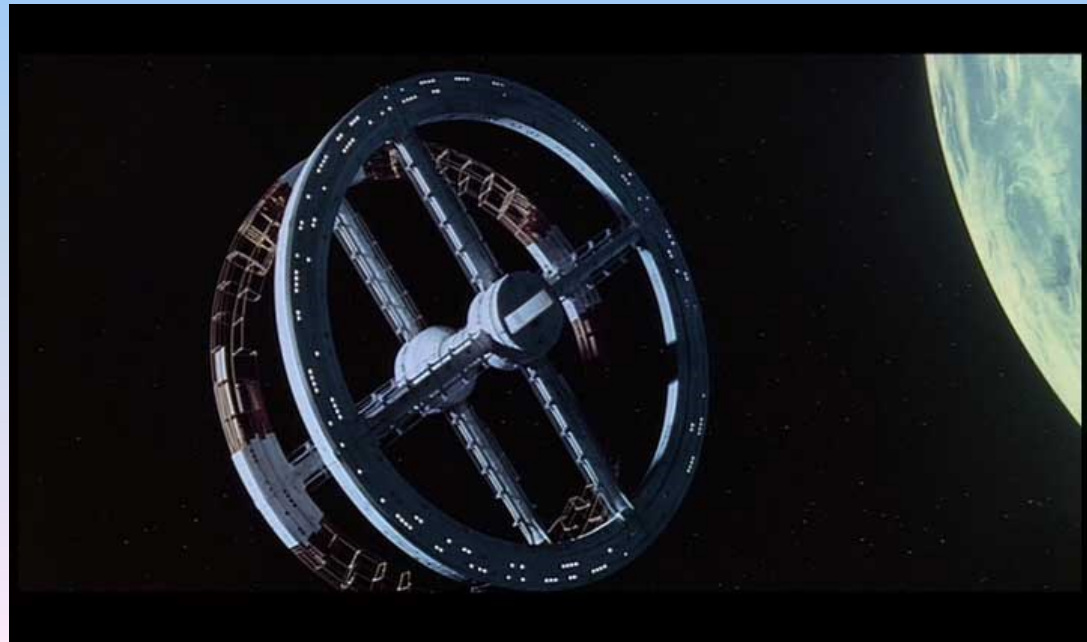
<https://youtu.be/x7ozaFbqg00>

# Question - 16

Bigelow Aerospace recently announced plans for a rotating space station in low earth orbit for use, in part, as a space hotel. The first elements are to be in place by 2025.

- Green = True
- Red = False

*Note: this image is of the fictional space station from the movie "2001 A Space Odyssey"*

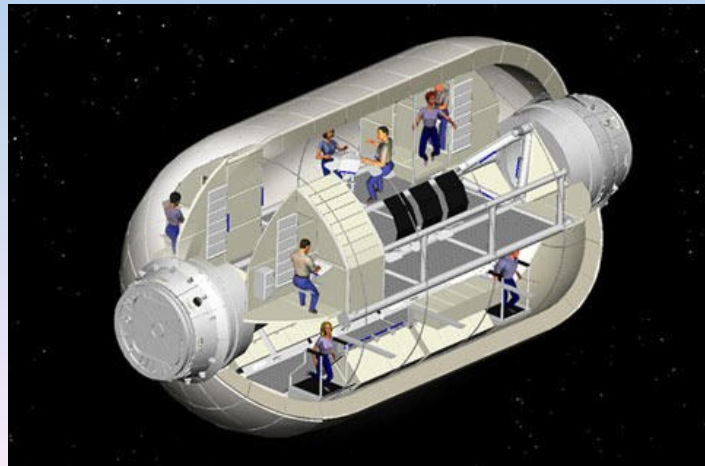




# Answer

- Red = False

Bigelow Aerospace makes inflatable space habitats, and has had one docked at the International Space Station for two years. But they have not announced plans for a rotating station.



# Question - 17

What computer language is set to be retired early next year?

- Green = UrduScript
- Red = Python

# Answer

- Red = Python (version 2)

Support for version 2 of the Python programming language is set to expire on Jan 1, 2020. See here for a countdown: <https://pythonclock.org>



Game 1 over  
Time for Game 2

# How to play

- Everyone stands
- Hold up red paper or green paper for each answer
- If you're wrong, sit down
- We repeat questions until only a few people remain standing
  - Those people get to draw for a prize
- Repeat until it's no fun anymore
  - ie the prizes are gone

# Rock, Paper and Scissors



**Picture by Kittikun Atsawintarangkul**

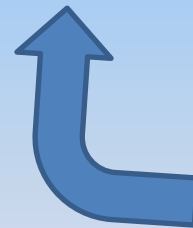
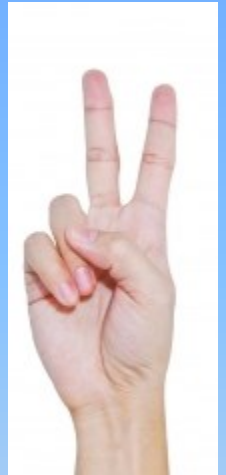
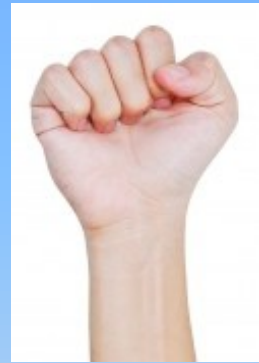


# Our Second Game

- Rock, Paper, Scissors - against the presenter

# Rules

- Rock beats scissors
- Scissors cuts paper
- Paper covers rock

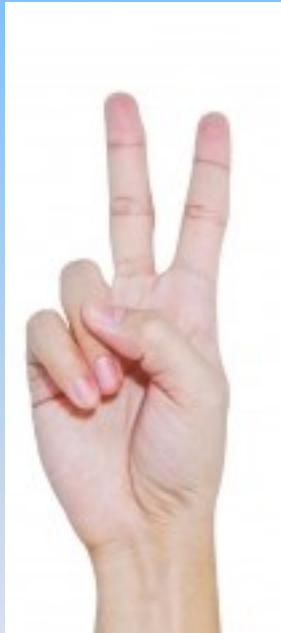


If you beat the presenter  
you stay in the game.

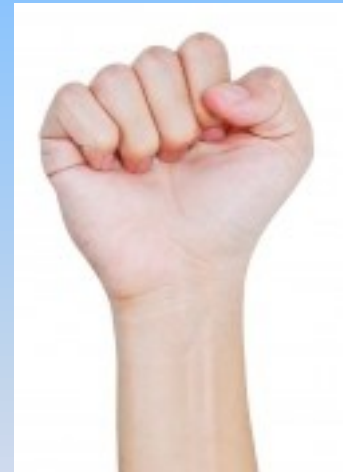
**Ready, Set,...**

# Round 1

**Presenter is:**



**Stay in game if you are:**



**Etc.**

Game 2 over  
Time for a closing thought...



# Recent Events

- Got some emails from Gitlab
  - Announcing a new telemetry policy
  - Apologizing and reverting the new telemetry policy
- Problem was that sending usage data to a 3<sup>rd</sup> party was opt-out rather than opt-in
- Bigger problem was Gitlab not discussing the new policy ahead of time with its customers and community
- Linux Foundation just announced a new policy on Telemetry policies

# Observations

- People are passionate about what they do
  - And passionate about their data, privacy, etc.
- The Gitlab CEO apologized
  - Calls for firing a Gitlab officer over comments made on a discussion board

# Observations

- People are passionate about what they do
  - And passionate about their data, privacy, etc.
- The Gitlab CEO apologized
  - Calls for firing a Gitlab officer over comments made on a discussion board
- This seems to me to be an over-reaction

# Kindness

- Apologizing puts someone in a position of relative weakness
  - I think it's important not to abuse that and push for more than appropriate remedies
- Admonition for kindness is only partly about improving the situation for the target of the kindness

# Making things better

- Open Source attracts some people as a way to contribute to the greater good in the world.
- Be kind while doing it – you'll make other's and your own life better in the process.



***Thanks for coming***

**Hope you learned something new,  
and had a good time.**

**See you next year!**