

This Christmas I hope to give toy watches to kids and mental patients that will logon to the web on New Years Eve and trade crypto-currency. There will initially be two evaluation boards with and without WiFi. The wristwatch version will be without WiFi and the larger evaluation board for developers will be without a battery. Both are anticipated to have bluetooth however this is subject to change and availability is uncertain. There are yet no guarantees of web service.

I need to partner with product engineers and service providers. Initially the evaluation boards will dock with a Personal Computer to update and send. Without an update you will not be able to send anything except to your home WiFi network. Mother, Family, and Employers are guaranteed to be groups with their own message queues, history and chat windows.

The participants need not have money nor will they all get free toys for Christmas. Sponsors are needed to accept crypto-currency and provide food and other services. Charity people. Help the homeless and isolated foster children that want to learn about communication and IoT.

What is IoT? Well it stands for Internet of Things and basically it allows you to turn on or off a light source, giving an example a reading lamp. Parents that have experience with children know something from experience. Education is important. And electricity is here to stay.

Free choice and Denial of Service (DoS). Do not incriminate yourself. An operator of this radio station you are here by included on NAC list. You are an officer of a specified (read the manual) corporation loyal only to your mother and headset manufacturer. If your mother wants to she can find you even if only in some situations.

If your kids go missing do not blame us. I am trying to change the world, not replace or be a substitute for a guardian. You are responsible to read the messages on the forums and chat rooms and educate your children not to tell a stranger their real name or any other information you believe makes them vulnerable or discoverable by hackers.

The FBI are not hackers. They have hackers, they are not going to recover corrupted flash memory you or someone disposed of in fire. DO NOT ALLOW ANYONE TO EXPOSE THE DEVICE TO HEAT OR OTHER FORMS OF RADIATION. THE LCD SCREEN IN THE PROTOTYPES CONTAIN MERCURY. THE BATTERY IS AN EXPLOSIVE. This device is a bomb and you cannot board an airplane without checking it into baggage.

That said, choose a screen name and search the classifieds for a job. This is how you can communicate with communities and developers. If you are a member of Alcoholics Anonymous, start a meeting. If you are my social worker, get an update and post to the forum. I believe in the First Amendment of the United States. Freedom. Opportunity. Support.

Without communities we have nothing. This Christmas be kind to strangers and the homeless. Redeem the coupons I will print as counterfeit money for food. I receive about \$760 in Social Security benefits a month and have been homeless since I was a minor. I love computers very much and will be sharing my story on my homepage.

Software and Hardware. The Internet, a way to exchange information and Software Defined Radio. I am doing this with the web and tools from the UNIX and Linux operating systems. Scripting languages are essential and should not just be about exchanging files but the way operating systems load, store and allow you to manipulate data with switches.

CNTs (Carbon Nanotubes), a super material called graphene, quantum dots, and my new operating system are the future of mobile computing. So is MEMS (Micro-Electro-Mechanical Systems), OLEDs and inkjet printing.

LiLo FiFo FiLo LiFo : Buffers && queues ;& if 1 to 5 {then, this, that, when} class ID hash map  
Hydrogen Electron Oxygen Carbon Gravity Helium.

## How the web (WWW, World Wide Web) works:

The Hyper-Text Transfer Protocol (HTTP) is the foundation of the World Wide Web and is used to load web pages using hypertext links. A web browser makes a request to a server that then sends a response message containing a header followed by a document.

1. Digital computers prompt the user to submit a query.
2. Process this request with a language compiler that reads from a file stream.
3. Taking action when the grammar definition calls a helper function.
4. Execute instructions, generate reports, respond with a message.

CGI scripts run from a web server also allows you to listen, accept, process, and send data each time a web browser makes a HTTP request to your server. This is what I am trying to explain and yes do create your own language.

## HTML5, CGI, GIF, JAVA:

HTML, CSS, javascript are the scripting languages of the web. XML and Jscript are also supported by Internet Explorer but are proprietary and are not open standards. Flash and JAVA are supported by Apple, Microsoft and Google. JAVA has open source implementations.

Flash, Java, GIF can be embedded inside HTML documents. CGI scripts can return HTML documents with embedded GIFs that can also be generated with Perl code. I would recommend Perl5, Perl6 or Python for CGI programming.

## Artificial Language:

1. Grammars = Format of a structured document.
2. Semantics = Meaning to user and programmer.
3. Syntax = Compliance with said language and error reporting.

Expressions:

1. Terminals = Tokens: numbers, symbol identifiers, operators and keywords.
2. Non-terminals = Productions -> Rules
3. Helper functions = Rules -> Actions

Steps for compilation of source code:

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| 1. Check the program for syntax errors.  | Reports warnings and errors to a console.    |
| 2. Parsing strings into tokens.          | Parser implemented with Regular Expressions. |
| 3. Evaluate productions and apply rules. | Grammar definition and helper functions.     |
| 4. Optimize and execute.                 | Semantics are key to writing an interpreter. |

## Other things to remember:

Types composition, size and structure.

Magnets, electricity, water. Salts: acids and metals. Non-metals: Carbon, silicon, germanium.

AC/DC: power, voltage, current, frequency (DC means steady state or 0 HZ).

AC: generation, distributing, motor; impedance.

DC: battery or filtering, regulation; resistance (source, load).

BUS: clock, clock and data recovery, ground; power supply.

Modulation: amplitude (DSB, SSB), phase, frequency, duty cycle, codes (i.e. PCM - look it up on google).

Nanoparticle inks with unique optical, magnetic, electrical, and thermal properties are injected by a circuit printer to make conductive traces, transistors, resistors, capacitors, inductors and LED. Graphene, silver, copper, gold are currently available. I am doing research to find more.

CNTs (Carbon Nanotubes): Nanoelectronics : Principles and Devices. Great book (recommended).

*The human brain senses, interprets, and responds when we experience multimedia while browsing the web or playing a video game. A digital bit inside a computer turns on or off a switch to illuminate LED with amazing colors (Hue, Saturation and Intensity) and this is an invitation for an operator to interact by manipulation of digital switches.*

**Circuit:** Electronic network (sources, switches and semiconductor) that contains at least one closed path. A linear circuit, consisting of sources, linear components (resistors, capacitors, inductors) and linear distribution elements (transmission lines or cables), has the property of linear super. They are also easier to analyze, using methods in the frequency domain to determine their response to direct current into alternating current and transient.

**Frequency response:** The frequency response of an amplifier can be tuned to reduce noise and amplify the desired signals by adding a passive or active alternating current filter. Despite good efforts to use digits to represent wave-forms, rounding errors and noise are improved with analog filters.

**LASER:** Inside a laser electricity and heat stimulate a radioactive material that radiates and amplifies visible, infrared or ultraviolet electromagnetic waves we call light. Two parallel mirrors face each other and lenses reflect and focus photons toward a hole at the center of one mirror. Electric charge, static electricity and heat created by current flowing through a resistance and into a coil excite the radioactive material and gasses inside the chamber. This produces the photons of light that printers use to develop photos, copies and masks for etching: on film, paper and substrate respectively.

**Life:** DNA, RNA, amino acids. Protein synthesis and folding. Cell replication and mutation. Species have genes and can adapt to their environment. Consume food and excrete waste. Carbon based. On earth life usually needs water and heat.

**Modulation:** The purpose of modulation is to prepare information for recording, storage or transmission. Intelligent signal (information) is mixed in a non-linear circuit (modulator) with a carrier that beats at a much higher frequency. The carrier is always a repeating waveform (typically an analogue sine wave however in digital modulation it can be a binary pattern).

**Oscilloscope:** Test circuits are observed with an instrument called an oscilloscope. An oscilloscope has two inputs: dependent variable almost always measured in volts and the independent variable time measured in seconds.

**PCB:** Printed Circuit Board. Components are soldered to this board. Its purpose is to physically support, and connect the components with conductive traces. Graphene, silver, copper, gold are good conductors. Energy moves in a conductor. Gerber is a file format.

**Persistence of Vision:** Design and operation of digital electronic computers assume the operator will see a complete and full picture. 'Persistence of Vision' is an explanation of how our eyes only see one energized pixel or LED segment at a time and yet our mind tells us that we experience the intended image or audio data faithfully.

**Transducers:** Convert electric energy to/from light (photons), air pressure (audio), heat, and force (motor). The wave-forms must be normalized with regard to range in amplitude, current and load power.