**BA371 The Code Issue Terms & Definitions**

**The Man in the Taupe Blazer**

* *TMitTB (the man in the taupe blazer)*: technical team lead

**Why Are We Here?**

* **Clojure**- Dialect of LISP (second oldest programming language, highly complex), general-purpose program with an emphasis on functional programing (style of building the structure and elements of a computer program).
* **Embedded system-** is a computer system with a dedicated function which is part of a larger mechanical or electrical system.
* **Information Architect-** designer of structural, shared information environments.
* **International Data Corporation (IDC)-** is a provider of market intelligence, advisory services, and events for the information technology, telecommunications, and consumer technology markets.
* **JavaScript-** an object-oriented computer programming language commonly used to run programs inside a web browser.
* *Perl*: interpreted programming language. Used a lot for scripting
* *PHP*: Interpreted programming language. Use a lot for developing Web applications.
* **Python-** Interpreted language), which is a high level and general-purpose program.
* **XSLT (Extensible Style sheet Language Transformations)-** Language used for transforming XML (extensible markup language) documents into other XML documents or other formats like HTML (HyperText Markup Language)

**How Do You Type an 'A'?**

* **Scancode** this is the data sent by the keyboard reporting which keys have been pressed to the computer; each key is assigned a number or sequence of numbers
* **ASCII** American Standard Code for Info Interchange, a character encoding standard that encodes 128 specified characters into eight-bit integers, e.g. the letter “i” as 01101001
* **Unicode** a computing industry standard ensuing consistent encoding, representation, and text handling, regardless of device, of 136,755 characters (as of most recent Unicode v10.0 in June 2017); because of ability to hold more information, more characters can be added regularly in conjunction with ISO

**Let's Begin:**

* **Operation:** A process in which a number, quantity, expression, etc., is altered or manipulated according to formal rules, such as those of addition, multiplication, and differentiation.
* **Data Centers:** A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems.
* **“Batch” Processing in Photoshop:** An action where all actions done to one photo will be recorded and applied to multiple other photos.
* **Processor:** The component of a computer system that performs the basic operations (as processing data) of the system, that exchanges data with the system's memory or peripherals, and that manages the system's other components**.**
* **RAM:** Random Access Memory is a form of computer data storage that stores data and machine code currently being used.

**From Hardware to Software**

**How Does Code Become Software?', '2016-01-01');**

**What Is an Algorithm?**

**The Sprint**

**Functional Specification:** is a set of at least a thousand statements about users clicking buttons. What you want to program to do.

**Wireframe Mockups:** are pictures or rough sketch of what the program will look like to the user.

**Slack:** is essentially a google chat, a place where programmers can talk to one another.

**Commit:** is the making of a set of tentative changes permanent. A commit is an act of committing.

**Standup:** meeting every morning is used to communicate problems, solutions, and promote team focus.

**Sprint:** (type of Agile framework) instead of doing a project in waterfall steps, you look at it in chunks. One part of the project in the first two weeks, next part in one week, ect.

**User Story:** (use case) what the program will look like to the users.

**What's With All These Conferences, Anyway?**

**Why Are Programmers So Intense About Languages?**

**The Beauty of the Standard Library**

* **Module**: Preexisting code for a language with the intention of expanding its capabilities. They can either be included with a language or come from a 3rd party.
* **Standard Library**: The set of prewritten modules that are included in a programming language. It provides functionality beyond what is built into the compiler.
* **Package Manager**:A software tool that downloads and manages the installation of 3rd party modules automatically.
* **Pip**: A package manager for downloading and installing 3rd party modules for python.
* **Pillow**: A commonly used 3rd party library for python that has several modules for image processing.
* **NumPy:** A commonly used 3rd party library for python that has several modules for scientific computing

**What Do Different Languages Do?**

**The Importance of C**

**The Corporate Object Revolution**

* **C:** A programming language that was very popular in the 80’s and 90’s (still used by many today) that lacked OOP designs
* **C++:** An improvement from C that added object oriented features to the language
* **Class:** Is a type used to create objects. In a class, you can give objects state and behaviors. Think of it like a blueprint for an object.
* **Object Oriented Programming:** Is a way of designing and modeling code based on real state and behavior. Objects are bundled with state and behavior, and give a way to design code only exposing stuff to the user without showing all the little details.
* **Simula:** One of the oldest OOP languages
* **Smalltalk:** A very intensive OOP language

**Look How Big and Weird Things Get With Just Python**

**Python**: Object oriented language that is built on many abstractions to work with different languages, such as C, C++ and Fortran77

**Abstraction**: Hiding all but the relevant data about an object in order to reduce complexity and increase efficiency.

**Jython**: Version of Python designed to run inside of Java

**IronPython**: Version of Python that works with Microsoft’s .NET

**Why Are Coders Angry?**

**Bikeshedding:** arguing over things that do not matter(what color is the bike shed going to be? Who cares?)

**Cloud microservices:** type of architecture that allows for continuous delivery/ deployment of complex applications in the cloud

**Silicon Valley:** southern portion of the bay area California that is known for its technological advancements and start up companies.

**The Legend of the 10x Programmer**

**The Thing About Real Artists Is That They...**

**We Still Need to Choose...**

**Why Are There So Many Languages?**

**The Time You Attended the Email Address Validation Meeting**

What Is the Relationship Between Code and Data?

Where Does Data Live?

The Language of White Collars

Briefly on the Huge Subject of Microsoft

Liquid Infrastructure

Off the Shelf

What About JavaScript?

What's the Absolute Minimum I Must Know About PHP?

How Are Apps Made?

The Framework: Wilder, Younger Cousin of the Software Development Kit

What Is Debugging?

Nothing Is Built

How Does Testing Work?

And Now for Something Beautiful

The Triumph of Middle Management

How Do You Pick a Programming Language?

Welcome to the Scrum

Managing Programmers

We Are Going to Ship

Should You Learn to Code?