

Creating a real world view of Cloud....

Introduction

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Language



Meaningful Language

- Why we need a new way to define
- Ask for more information to start using the notation
- Collaborate on further developing the notation

 Use cases, symbols, framework
- Aim to evolve to a standard

Takeaways

- Understand the notation with examples
- Idea of the "*spheres"* the new meta language
- Awareness of the Integrated Cloud Framework

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Quotations



Noam Chomsky (father of modern linguistics, MIT): "The structure of language determines not only thought but reality itself".





Quotations



Albert Einstein (Physicist): "Imagination is more important than knowledge".

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Current Methods

hase Builder

User Task

rice/Ag Task

Associtated Data Object

Start O End





The Myth of the Value Chain



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http://animoto.com/intro/1?gclid=COPA7s22iaMCFRJNagod7W_5bA

Animoto uses Rightscale as their cloud infrastructure partner. Brad discusses their infamous week where Animoto went from 25k users to 700k users in 5 days and they had to scale from 50 to 5k servers.



New York Times case

New York Times http://www.nytimes.com/

The New York Times also used S3 for a data-intensive project: converting 11 million articles published from the newspaper's founding in 1851 through 1989, to make them available through its Web site search engine. The Times scanned in the stories, cut up into columns to fit in the scanners (as TIFF files), then uploaded those to S3



using Amazon.com's EC2 computing platform, the Times ran a PDF conversion app that converted that 4TB of TIFF data into 1.5TB of PDF files. Using 100 Linux computers, the job took about 24 hours.

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Today & Tomorrow



Today & Tomorrow – The Connection



The Ecosystem of four "Spheres" New Language Notation



Cloude Spacestem



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Metadata Models of Today



Multiple space relationships on different planes / dimensions

Problem: Today we have different notations but nothing that brings this all together. Difficulties: Governance, Integration, Transformation, Complex Our Solution: Metadata oriented Abstractions represented by symbols

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Metadata Models of Tomorrow

A single unified notation to facilitate governance and integration



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Open Metadata and Data Sets

The content of the cloud is diverse in nature, comprising variety of **Data Sets** as linked hubs, connected together and describing Internet of Things in metadata form.

Open data is a philosophy and practice requiring that certain data be freely available to everyone, without restrictions.

The **RDF** is based on making associations. It describes data by breaking each data element into three nodes: a subject, predicate and object.



The British Broadcasting Corporation has tested RDF to augment searches of its huge program guide. Best Buy and eBay have encoded their commercial listings in RDF.

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Future Languages Eco Literacy enabled





The Cloud Language Foundation (CLF) represents holistic approach into ecosystem of Cloud Languages, targeted to variable audience and has intent to cover design lifecycle from first vision to service execution with proposed alternative name CIEL (Cloud Interactive Ecosystem language).

The power of CIEL is in unified symbolic language, abstraction and minimization of complex interactions, and preservation of translational capabilities into next stages of service design and execution.



CLF – Phases, Actions and Logic



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CLF -> CURN + CCNL + CSEL







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CLF – Metadata / Information Map Work in Progress = Vision



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CLF – Metadata Repository & Symbol Flow







The Cloud "symbol" pattern and structure



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CLF – Table of Symbols v.1



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CLF – Table of Symbols #1/4



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CLF – Table of Symbols #2/4



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CLF – Table of Symbols #3/4



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CLF – Table of Symbols #4/4



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CURN Example

CASE STUDY : Example of Competitive Advantage transforming the Pharmaceutical Industry enabled by Cloud Computing

This example illustrates Industry Services in Cloud that a SME can access and compete in areas that larger Companies once had incumbent control due to own assets and services. This means that there are lower switching costs via Self Service Portals and 3rd party Cloud service providers. Because people can choose Self Service over other General Traditional Services



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CCNL – Cloud Environment Encapsulation Deployment & Orchestration Example



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CSEL Example #1



GUI Examples





CURN – GUI #1



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CURN – GUI #2









- Would like to establish a new Project in The Open group
- Develop Roadmaps for CIEL to other Methodologies
- Connect and integrate CIEL to other metadata models













Thank you!



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