




Class Infrastructure

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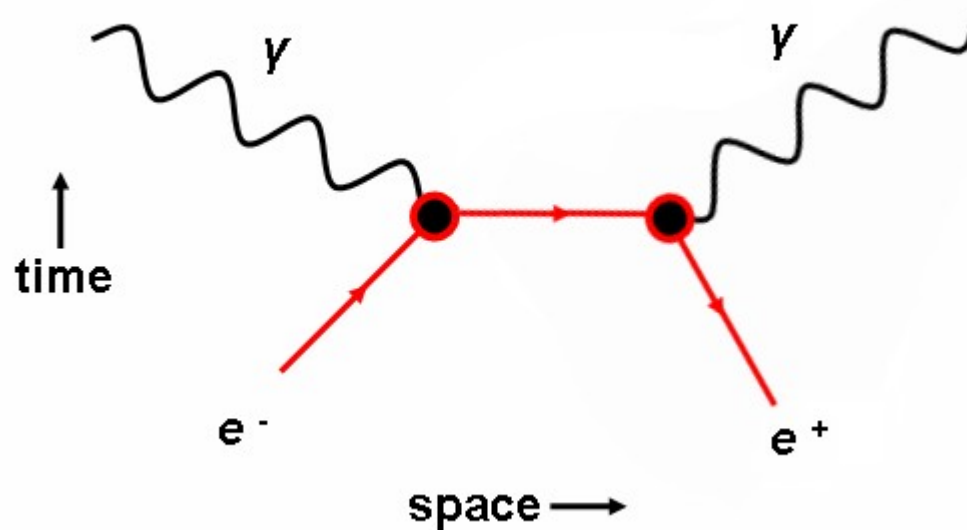


The best way
to learn
to play
the drums

is

to play
the drums.

Feynman Diagrams



Graphical representation of a term in the Wick's expansion of the time product in the n -th order term $S^{(n)}$ of the S-matrix

$$S = \sum_{n=0}^{\infty} \frac{i^n}{n!} \int \prod_{j=1}^n d^4x_j T \prod_{j=1}^n L_v(x_j) \equiv \sum_{n=0}^{\infty} S^{(n)},$$

S-matrix is represented within the [interaction picture](#) by the perturbation series in the powers of the interaction Lagrangian,

Tools

- Brain
 - with switch in the **ON** position.
- Laptop
 - With network connection enabled
- iClicker
 - Registered, and set to Frequency **CA**
- Bootable USB stick
 - 4GB or larger
 - with **Ubuntu 9.04** installed

Class Motto

There is no Shame
in not knowing...

The shame lies

in not **Finding Out !**

Capabilities Database

- Axioms
 - Everybody knows something
 - There is always somebody else who knows more
 - By teaching we learn
- Conclusion
 - 30 Brains with laptops and Internet connections are smarter than one brain without Internet connection.

Capabilities List

Rate your skill level by using your iClicker and the following scale table

- E: I think it is a brand of toothpaste
- D: I have written a “Hello World” example
- C: I have written a working demo
- B: I have used it for several months
- A: I can write a full application without looking at a manual

Capabilities List

- UNIX Shell commands
- Shell Scripting
- C-Language
- Make – makefiles
- C++
- Java
- Python
- Perl
- PHP
- SQL
- MySQL
- PostgreSQL
- Apache
- Wiki
- Mailman
- MANTIS

Capabilities List

- Trac
- CVS
- SVN
- Git
- Mercurial
- Perforce
- CMake
- CDash
- Ctest
- Cpack
- Sourceforge
- Audio Tools
- Video Tools
- ffmpeg
- Blender
- ROSS

Capabilities List

- Twitter
- Facebook (apps)
- Firewalls
- Embedded Linux
- Linux Kernel
- GCC
- Second Life viewer
- OpenSimulator
- Creating Bootable USB Ubuntu
- Cloud Computing
- VMWare
- Apple / Mac
- Android
- Symbian
- iPhone

Capabilities List

- Wii-Remote
- Bluetooth
- GIMP (image editor)
- Music Mixing
- Musicians
- Movie making
- Cryptography
- Paraview
- VTK
- Bittorrent
- MPI
- PThreads
- OGG

Capabilities List

- Javascript
- Jason
- System Administration
- Backups
- Technical Writing
- Sniffing (networks)
- Accounting (Money)
- Loans / Mortgages
- Other

Setup

- **Subscribe to the course mailing list**

<http://www.kitware.com/cgi-bin/mailman/listinfo/opensourcesoftwarepractice>

- **Bookmark the Wiki of this course**

http://public.kitware.com/OpenSourceSoftwarePractice/index.php/Main_Page

and Get your account in this Wiki.

Setup

- In your USB bootable Ubuntu,
You will install:
 - Development tools
 - CVS / SVN / GCC / G++ / CMake
 - Second Life viewer (with source code)
 - OpenSimulator (with source code)
 - GCC source code
 - Linux Kernel source code package
- Setup your wireless

Setup

- Sign up for your Ekiga account

<http://ekiga.org/>

- Sign up for your Sourceforge account

<https://sourceforge.net/account/registration/>

- Sign up for your Twitter account

<https://twitter.com/signup>

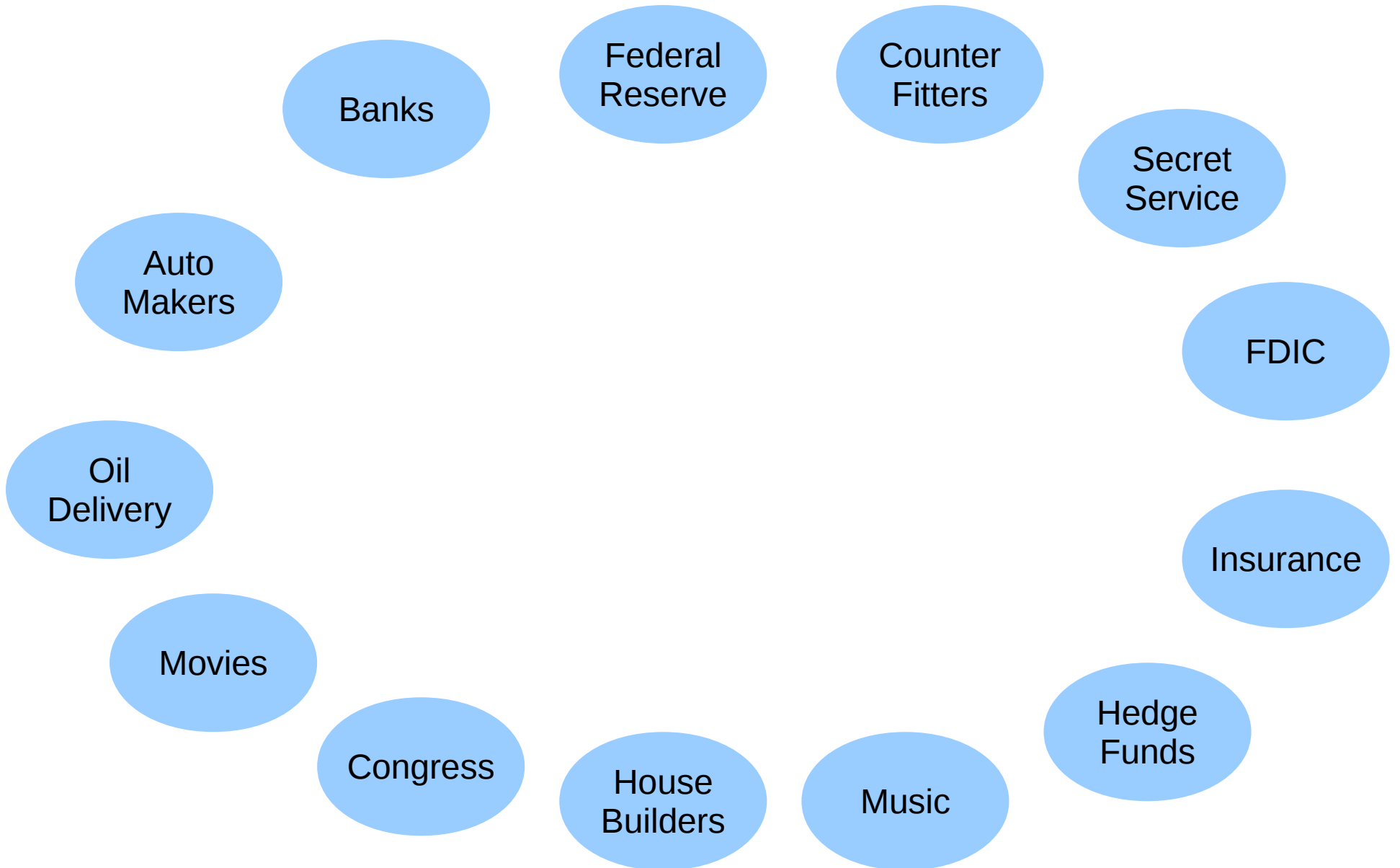
and start following:

<http://twitter.com/OpenSourceCours>

Class Project

Economy Modeler

Economy Actors



End