

LeechCraft

Modular Internet Client

Опыт разработки многофункционального
интернет клиента LeechCraft

Задача: посмотреть видео

Unix-way

- 1) скачиваем файл
- 2) утилитой определяем тип контейнера
- 3) утилитой определяем тип видео кодека
- 4) утилитой определяем тип аудио кодека
- 5) разделяем видеофайл на аудио и видео потоки
- 6) декодируем видео
- 7) декодируем аудио
- 8) Направляем декодированное аудио на звуковое устройство
- 9) Декодированное видео разрезаем на кадры
- 10) пишем скрипт показывающий через фреймбуфер разрезанные битмапы.

Not unix-way

mplayer

Плагины LeechCraft

Основные модули

- Aggregator
- Azoth
- BitTorrent
- LackMan
- Poshuku
- Qrosp
- Summary
- EiskaltDC++

Дополнительные модули

- AnHero
- Auscrie
- CSTP
- DBusManager
- DeadLyrics
- GMail Notifier
- HistoryHolder
- Kinotify
- LCFTP
- LMP
- NetworkMonitor
- New Life
- Popishu
- SecMan
- SeekThru
- ShellOpen
- Tab++
- vGrabber

Aggregator

Aggregator - LeechCraft

Теги: Фиксированная строка

Лента	Непрочита	Последнее обн	Имя	Дата
Яндекс.Новости: Г...	0	04.05.11 15:22	The Qt documentation has made it into DevNet!	15.06.11 16:30
iXBT.com: свежие н...	0	04.05.11 11:05	String collation with locales	14.06.11 12:24
iXBT.com: статьи	0	04.05.11 9:00	Qt Contributors' Summit - Last Minute Updates	13.06.11 23:54
Радио-Т	0	04.05.11 9:18	String concatenation with QStringBuilder	13.06.11 19:16
Slashdot	0	04.05.11 10:40	Type-punning and strict-aliasing	10.06.11 14:32
iXBT.com: свежие н...	0	04.05.11 10:31	Threaded OpenGL in 4.8	03.06.11 14:00
iBash.Org.Ru	0	18.04.11 1:38	QML Scene Graph in Master	31.05.11 18:49
OpenNews.opennet...	0	04.05.11 6:08	Lighthouse has grown up now	31.05.11 12:49
Lenta.ru: Новости	0	04.05.11 10:30		
Membrana.ru	0	04.05.11 10:33		
Linux.org.ru: Новости	0	04.05.11 10:09		
Хабрахабр:	0	04.05.11 11:09		
Хабрахабр:	0	05.05.11 11:32		
Qt Labs Blog	0	03.05.11 16:53		
3DNews - Daily Digit...	0	04.05.11 10:57		
Bash.Org.Ru	0	11.05.11 11:45		
Проекты Weblanc...	0	23.05.11 11:01		
welinux.ru	0	13.06.11 13:04		

не. The import name has been upgraded to QtQuick 2.0, so upgrade your .qml. If you do not upgrade your .qml files, the qmlscene binary will try to load all QtQuick 1.0 files as 2.0. QDeclarativeItem based plugins will not be loaded.

For a quick tour of what the QML Scene Graph is all about, we've compiled this video:

QML Scene Graph Demo



The source code for the video is available [here](#). It uses [the QML presentation system](#).

I'll answer the question of why we are not using an existing system, to preempt the comment: We wanted something small and lightweight to solve the use cases for QML. The scene graph core is less than 10K lines of code (including class documentation) and tailored to our use case. Everything else is integration with QML and Qt. Code we would

Объединять статьи

Azoth: P100Q

The screenshot displays the Azoth IRC client interface. The main window shows a chat log with several messages, including recommendations and discussions. The right-hand side features a contact list with a search bar and a list of users, including 'magog_azoth' and various channel members.

Chat Log:

- то привык.
- #eisi (S U + !) <http://psto.net/eisi>
[13:42:04] psto:
- Рекомендовано @ulidtko @Velvet-Bird * прислал смеаа
[16:38] abiogenesis> игнорят и не дают права на коммит в цвс
[16:38] abiogenesis> что такое
[16:38] смеа> коммитни в мой рарболл
[16:39] смеа> жоско так, чтобы я потом неделю мержил над сортиром
- #eiss (S U + !) (1 комментарий) <http://psto.net/eiiss>
[13:50:16] psto:
- Рекомендовано @eurekafaq @Kaktus * minecraft WOK epic
он меня покорила :3
<http://www.youtube.com/watch?v=2c83y8ubU0M>
- #eiin (S U + !) <http://psto.net/eiin>
[13:50:36] psto:
@gisty * animu
посмотрел пару серий Garuham. это ахуенно ящитаю
- #eies (S U + !) <http://psto.net/eies>
[14:05:52] psto:
- Рекомендовано @arts
@uruuru
<http://alt-tab.org/data/images/2011/06/browser-2bwar-2bcopy.jpg>
- #eieq (S U + !) (1 комментарий) <http://psto.net/eieq>
[14:14:50] psto:
@Nico-oo * ИГЫ Games
http://www.theboredninja.com/flash_games/solarmax/
Чят, игра настольно офигенная, что я играю уже 3й день и не могу оторваться.
- #eiqf (S U + !) <http://psto.net/eiqf>
[14:32:58] psto:
@partizano * впрыск флешмоб
У кого нет мотоцикла, тот не человек
- #eiqq (S U + !) <http://psto.net/eiqq>
[14:33:40] psto:
@Nico-oo * впрыск флешмоб
У кого нет спарков - тот не человек.

Contact List (Right Panel):

- magog_azoth
- QOrg (1/1)
 - Zetoke
- Work (2/6)
 - NickNik
 - Nikolay Nikiforchuk (Кодю)
- XMPP Blogs (1/2)
 - Juick
- development (6/7)
 - Alex Ermolov (I'm online)
 - cutwater
 - jtootf
 - qnikst
 - Stiletto (Заткнись и смотр...
 - Misha_juffed
- leechcraft (4/6)
 - 0xd34df00d
 - nobodyzzz666
 - lik3a11
 - trans (вперед и только впе...
- Конференции (4/4)
 - c_plus_plus@conference.jab...
 - qorg@conference.jabber.ru ...
 - qt@conference.jabber.ru (И...
 - qt-for-beginner@conference...
- Курс (1/19)
 - Asmadeus
- Курсанты (1/4)

Весь CL

0.0 Б/с 0.0 Б/с

Azoth: EmbedMedia

psto - LeechCraft

Aggr... c_plus_plus@conferen... qt@conferen... psto Juick qorg@conferen... (1) qt-for-beginner@c...

0 magog_azoth

Поиск...

- magog_azoth
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 - qorg@conference.jabber.ru ...
 - qt@conference.jabber.ru (И...
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 - Курсанты (1/4)

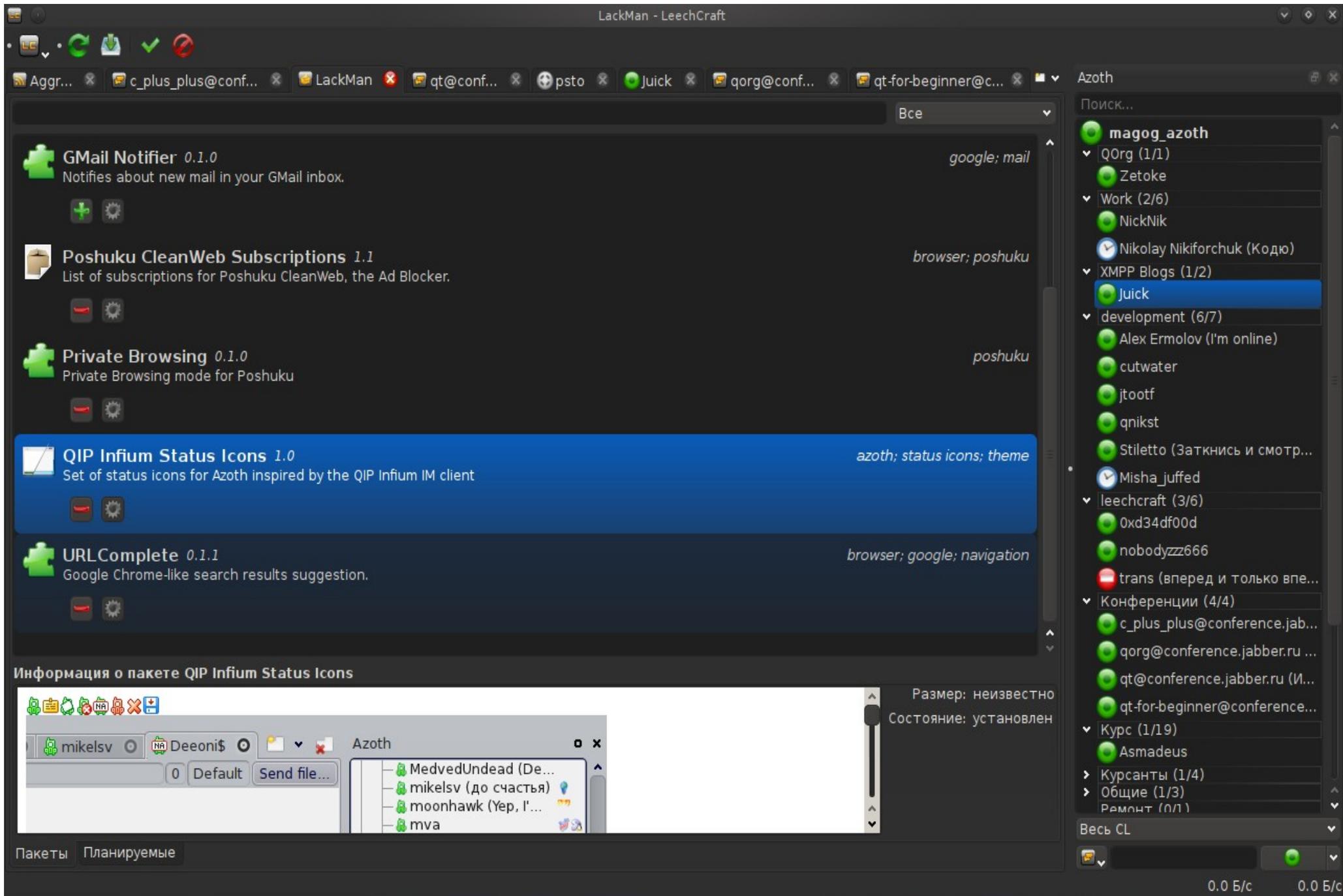
Весь CL

0.0 Б/с 0.0 Б/с



press X to close

LackMan



Poshuku

Central limit theorem - Wikipedia, the free encyclopedia - LeechCraft

http://en.wikipedia.org/wiki/Central_limit_theorem

External links

Central limit theorems for independent sequences [edit]

Classical CLT [edit]

Let $\{X_1, X_2, \dots, X_n\}$ be a **random sample** of size n — that is, a sequence of **independent and identically distributed** random variables with **expected values** μ and **variances** σ^2 . Suppose we are interested in the behavior of the **sample average** of these random variables: $S_n = \frac{1}{n}(X_1 + \dots + X_n)$. Then the central limit theorem asserts that for large n 's, the distribution of S_n is approximately **normal** with mean μ and variance $\frac{1}{n}\sigma^2$. The true strength of the theorem is that S_n approaches normality regardless of the shapes of the distributions of individual X_i 's. Formally, the theorem can be stated as follows:

Lindeberg-Lévy CLT: suppose $\{X_i\}$ is a sequence of **iid** random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2$. Then as n approaches infinity, the random variable $\sqrt{n}(S_n - \mu)$ **converges in distribution** to a **normal** $N(0, \sigma^2)$:^[3]

$$\sqrt{n} \left(\frac{1}{n} \sum_{i=1}^n X_i - \mu \right) \xrightarrow{d} \mathcal{N}(0, \sigma^2).$$

Convergence in distribution means that the **cumulative distribution function** of $\sqrt{n}(S_n - \mu)$ converges pointwise to the cdf of the $N(0, \sigma^2)$ distribution: for any real number z ,

$$\lim_{n \rightarrow \infty} \Pr[\sqrt{n}(S_n - \mu) \leq z] = \Phi(z/\sigma),$$

where $\Phi(x)$ is the standard normal cdf.

Lyapunov CLT [edit]

The theorem is named after a Russian mathematician **Aleksandr Lyapunov**. In this variant of the central limit theorem the random variables X_i have to be independent, but not necessarily identically distributed. The theorem also requires that random variables $|X_i|$ had **moments** of some order $(2 + \delta)$, and that the rate of growth of these moments was limited by the Lyapunov condition given below.

Lyapunov CLT:^[4] let $\{X_i\}$ be a sequence of **independent** random variables, each having a finite expected value μ_i and variance σ_i^2 . Define $s_n^2 = \sum_{i=1}^n \sigma_i^2$. If for some $\delta > 0$, the **Lyapunov's condition**

$$\lim_{n \rightarrow \infty} \frac{1}{s_n^{2+\delta}} \sum_{i=1}^n E[|X_i - \mu_i|^{2+\delta}] = 0$$

is satisfied, then a sum of $(X_i - \mu_i)/s_n$ converges in distribution to a standard normal random variable, as n goes to infinity:

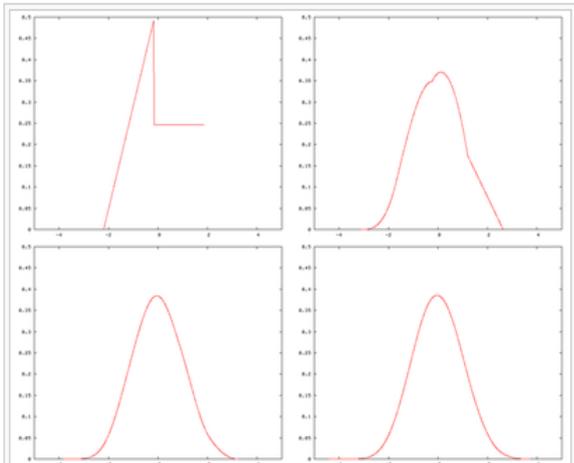
$$\frac{1}{s_n} \sum_{i=1}^n (X_i - \mu_i) \xrightarrow{d} \mathcal{N}(0, 1).$$

In practice it is usually easiest to check the Lyapunov's condition for $\delta = 1$. If a sequence of random variables satisfies Lyapunov's condition, then it also satisfies Lindeberg's condition. The converse implication, however, does not hold.

Lindeberg CLT [edit]

Main article: Lindeberg's condition

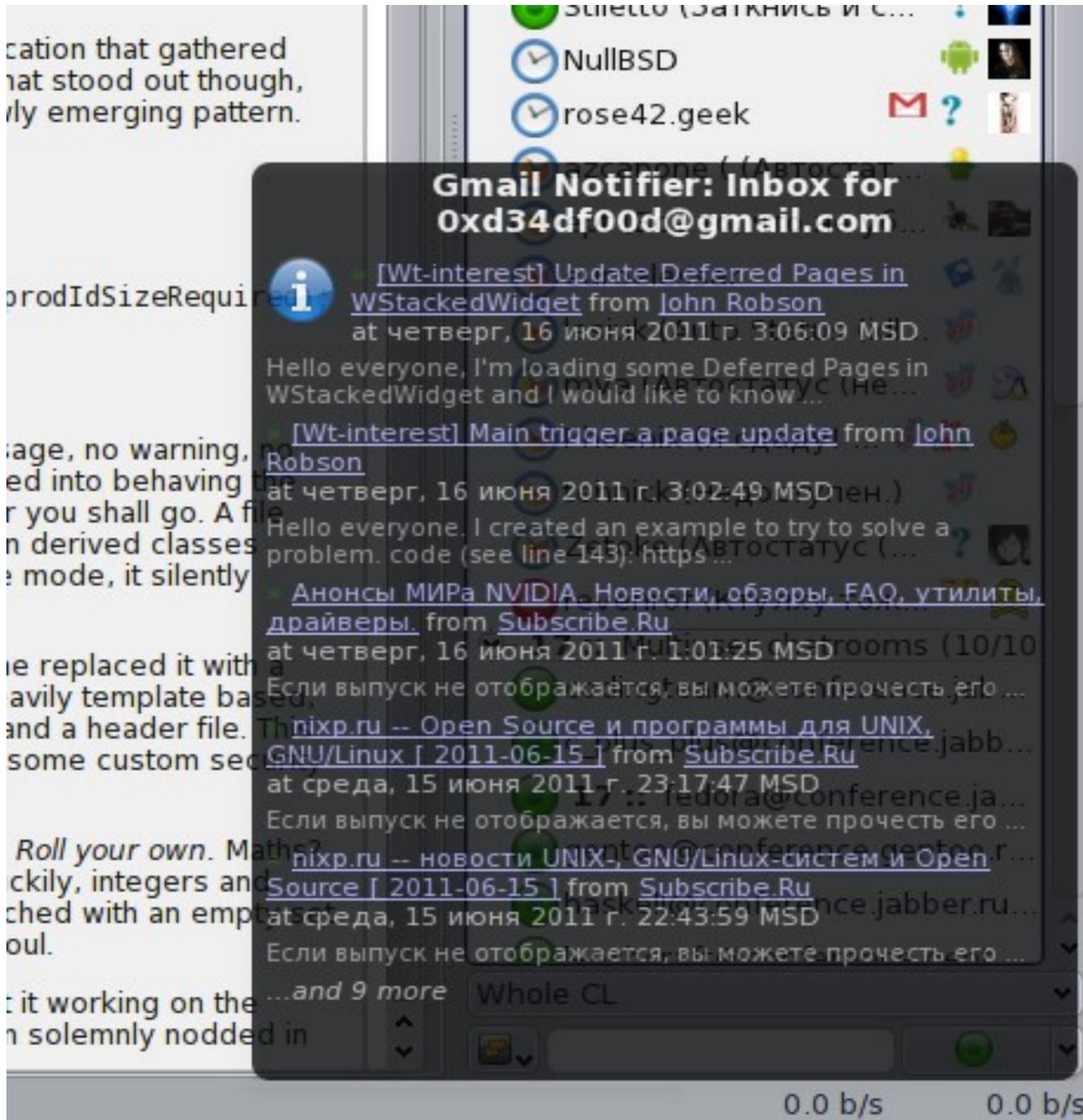
In the same setting and with the same notation as above, we can replace the Lyapunov condition with the following weaker one (from **Lindeberg** in 1920). For every $\epsilon > 0$

$$\lim_{n \rightarrow \infty} \frac{1}{s_n^2} \sum_{i=1}^n E[(X_i - \mu_i)^2 \cdot \mathbf{1}_{\{|X_i - \mu_i| > \epsilon s_n\}}] = 0$$


A distribution being "smoothed out" by summation, showing original density of distribution and three subsequent summations; see [Illustration of the central limit theorem](#) for further details.

0.0 b/s 0.0 b/s

Kinotify



Виды сообщений

```
graph TD; A[Виды сообщений] --> B[Сообщение-уведомление]; A --> C[Запрос на делегацию];
```

Сообщение-уведомление

Запрос на делегацию

Типы обработчиков

```
graph TD; A[Типы обработчиков] --- B[Entity downloader]; A --- C[Entity Handler];
```

Entity
downloader

Entity
Handler

Phases of an engineers life

1. Oh cool a computer! Woops i think I broke it. How do i fix this?
2. Omg computers are so cool. Look what I can do with it. And this, and that!
3. Why is studying computer science so boring?
4. This software sucks, i can do it better!
5. All software sucks. I can't possibly fix everything.
6. Maybe i chose the wrong job.
7. What do you mean senior engineer? Already 8 years passed? oh hell..
8. ..?

Благодарю за внимание!

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Mail: MaledictusDeMagog@gmail.com
Skype: lord_baskervil

Наши контакты:

Jabber: leechcraft@conference.jabber.ru
IRC: irc.freenode.net:6667#leechcraft