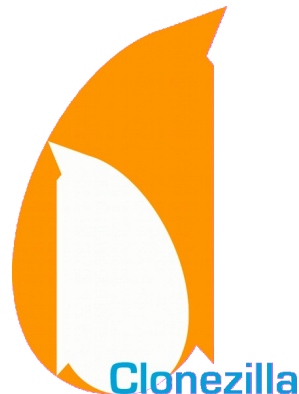# Free software is like air

Steven Shiau

NCHC, Taiwan

Q3, 2015

About myself

- Free Software Lab, NCHC, Taiwan
- Developers of the free software DRBL, Clonezilla Partclone, DRBL-Winroll,and more...
- Maintainer of GParted live CD

Clonezilla

Taiwan image source: wikipedia.org

Something analog to software?

Software is like sex: it's better when it's free.

(Linus Torvalds)

izquotes.com

Just for Fun
The Story of an Accidental Revolutionary

LINUS TORVALDS
Creator of LINUX
and DAVID DIAMOND

Image source: (1) http://izquotes.com (2) http://amazon.com

Something analog to free software?

- Existing article in real life

Air

Image source: (1) http://www.pinterest.com (2) http://irregularnews.com

Something analog to free software?

Once GNU is written, everyone will be able to obtain good system software free, just like air.

(Richard Stallman)

izquotes.com

Image source: http://izquotes.com

Air is not important unless

You are not getting any...

DANGEROUS GASES

Image source: (1) UDN daily news 鄭清元 (2) http://www.babble.com

Air is not important unless
You are not getting any...

Image source: http://fijione.tv/drowning-claims-another-life/

Air is not important unless

You are not getting any...

Image source: http://www.cw.com.tw
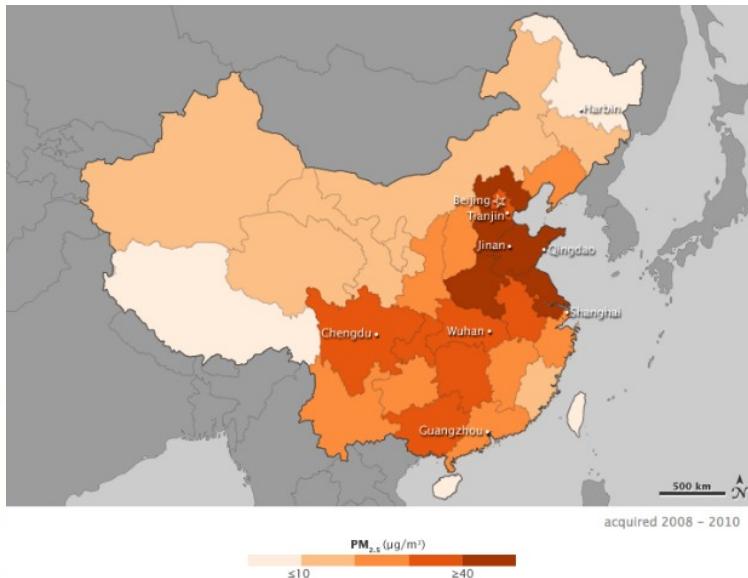
Image source: http://www.usatoday.com
By: Ng Han Guan, AP

Video: 柴静霧霾調查 - 穹頂之下
Chai Jing's review: Under the Dome
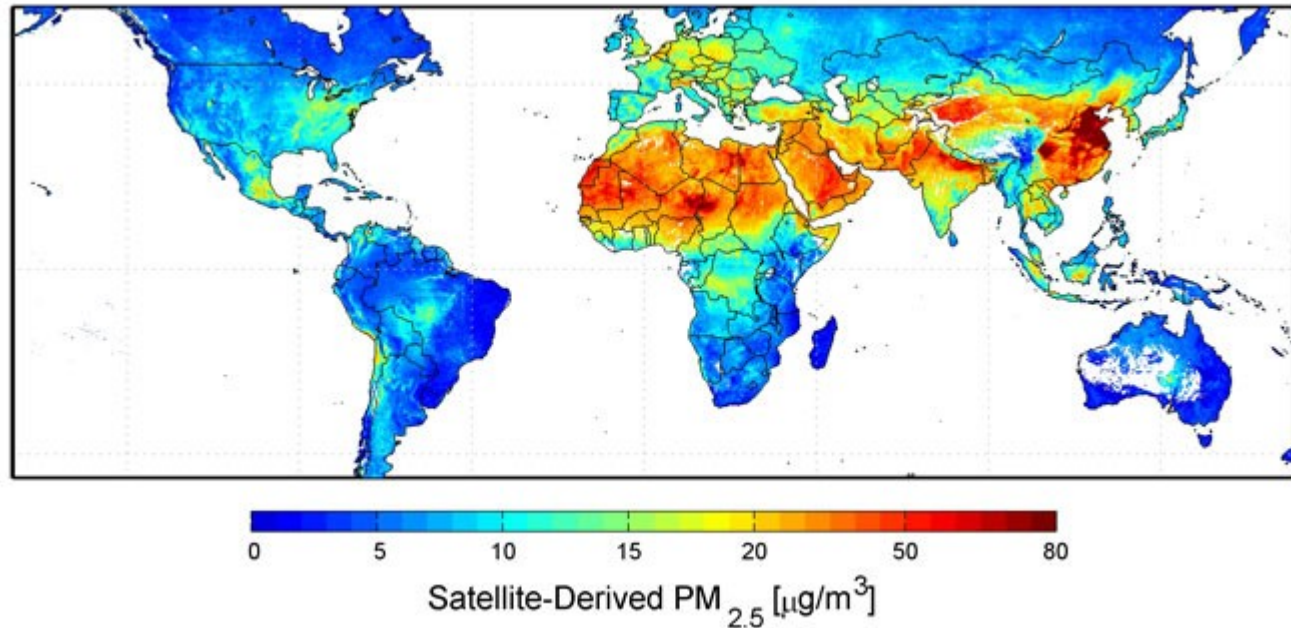 – Investigating China's Smog
https://www.youtube.com/watch?v=T6X2uwlQGQM
48 hours, > 200M views
Within 1 week, it was removed from major websites
 in China

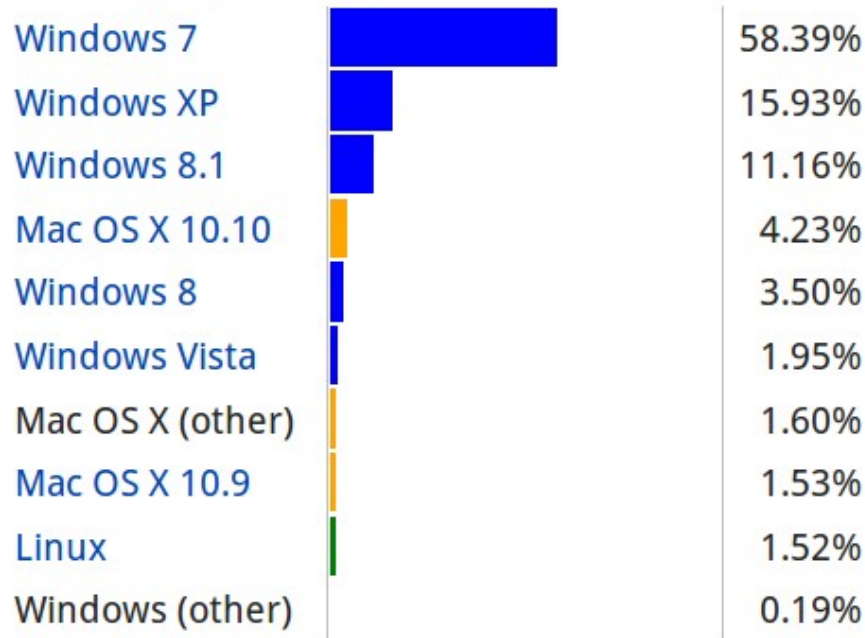# Air is not important unless

You are not getting any...

Satellite-Derived PM$_{2.5}$ [μg/m^3]

Feel sorry for those suffering most!

Image source: http://www.nasa.gov/topics/earth/features/health-sapping.html

TAIWAN www.nchc.org.tw

Free Software Market Share
GNU/Linux - Desktop

Desktop operating system browsing statistics

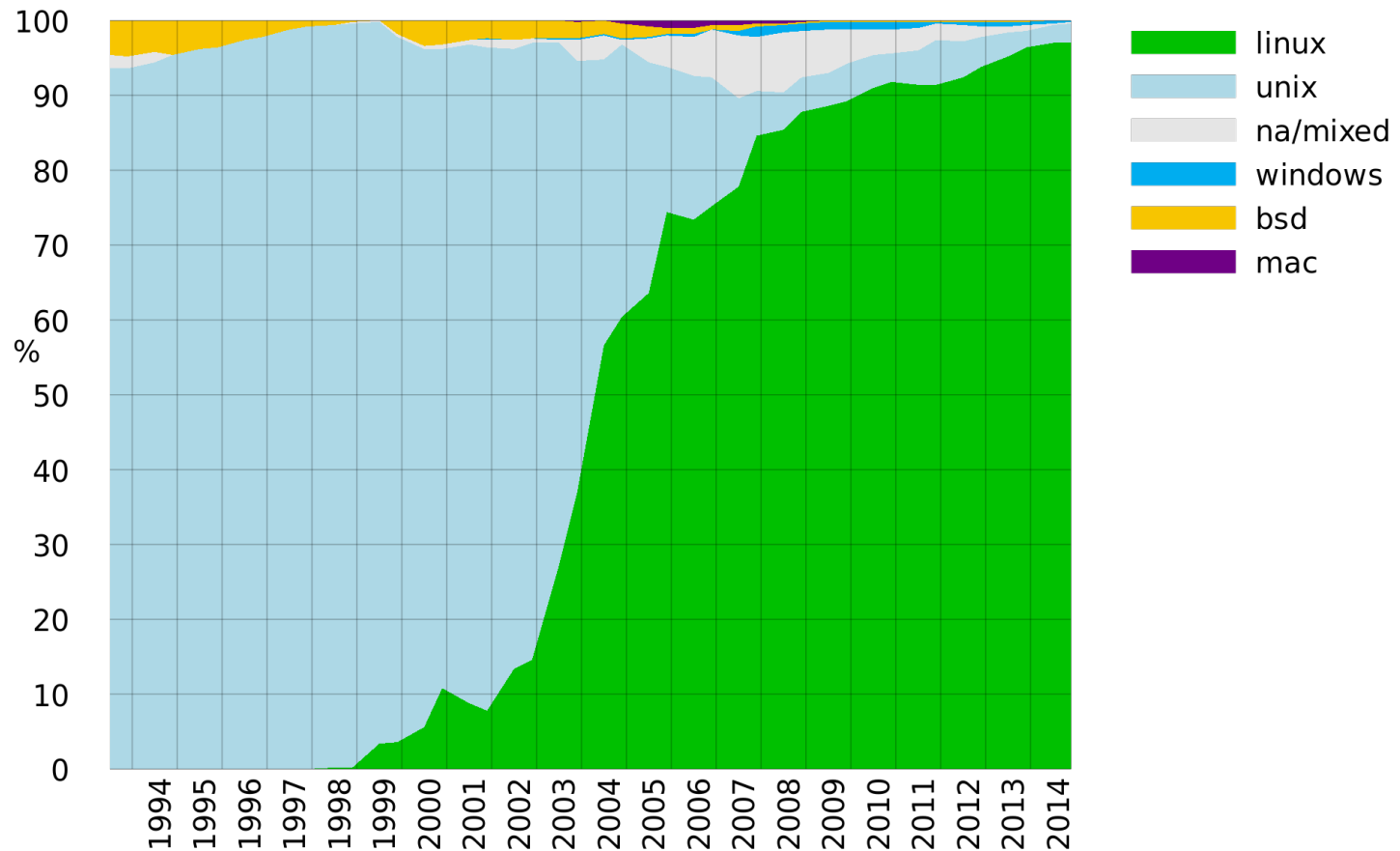|	
Windows 7	58.39%
Windows XP	15.93%
Windows 8.1	11.16%
Mac OS X 10.10	4.23%
Windows 8	3.50%
Windows Vista	1.95%
Mac OS X (other)	1.60%
Mac OS X 10.9	1.53%
Linux	1.52%
Windows (other)	0.19%

Desktop OS market share as of April 2015 according to Net Applications[5]

Source: https://en.wikipedia.org/wiki/Usage_share_of_operating_systems

Free Software Market Share

GNU/Linux – Super Computing

Source: https://en.wikipedia.org/wiki/Usage_share_of_operating_systems
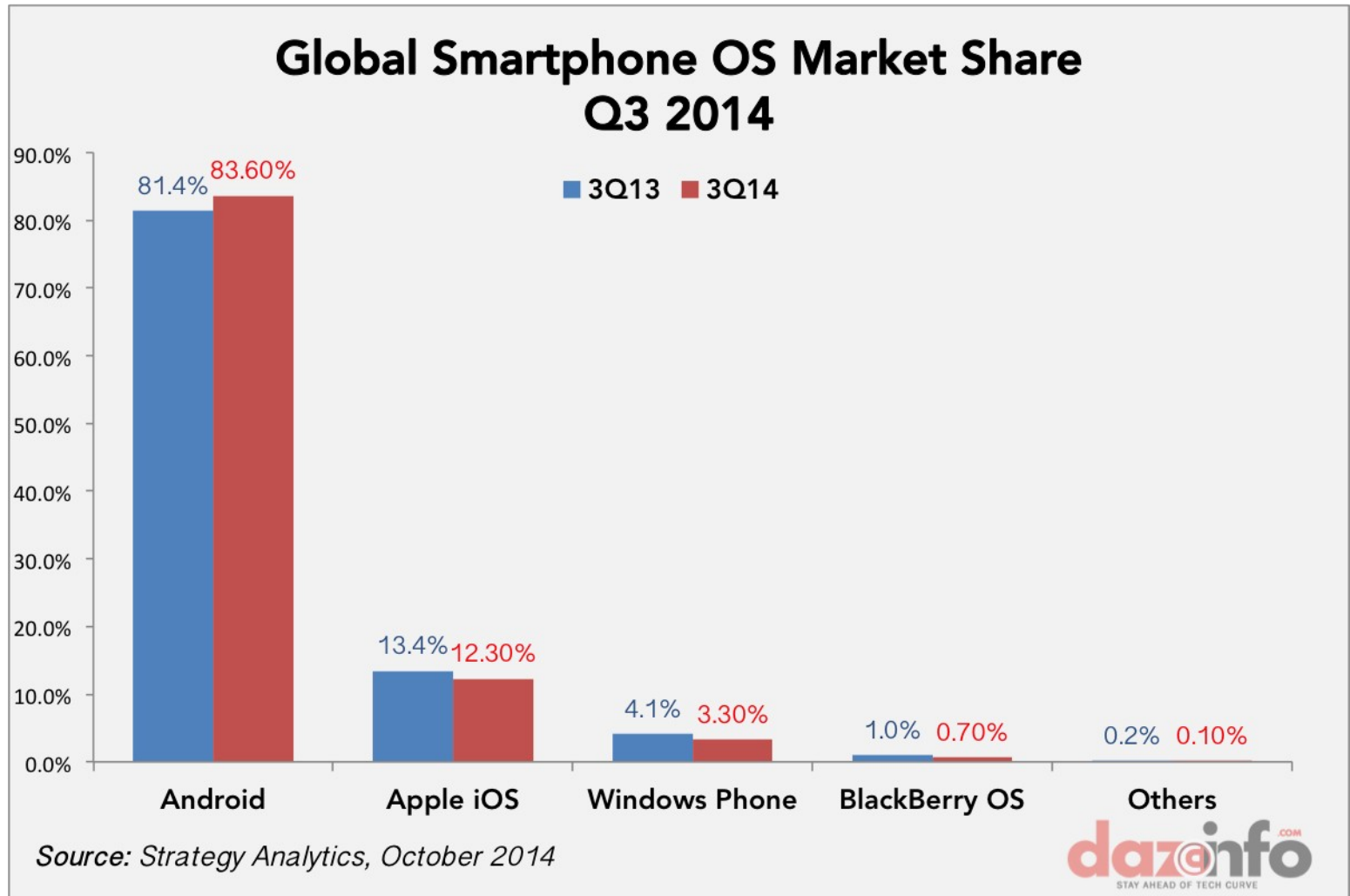
Free Software Market Share

Android
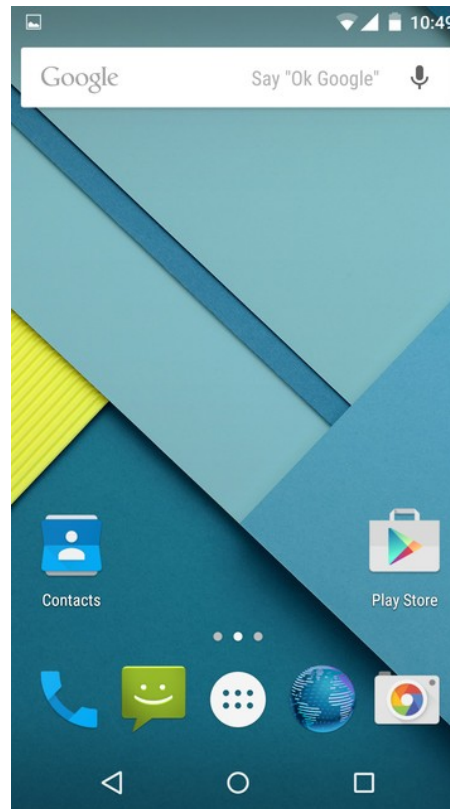
License:
- Apache License 2.0
- GNU GPL v2 for the Linux kernel modifications

Image source: https://en.wikipedia.org/wiki/Android_%28operating_system%29
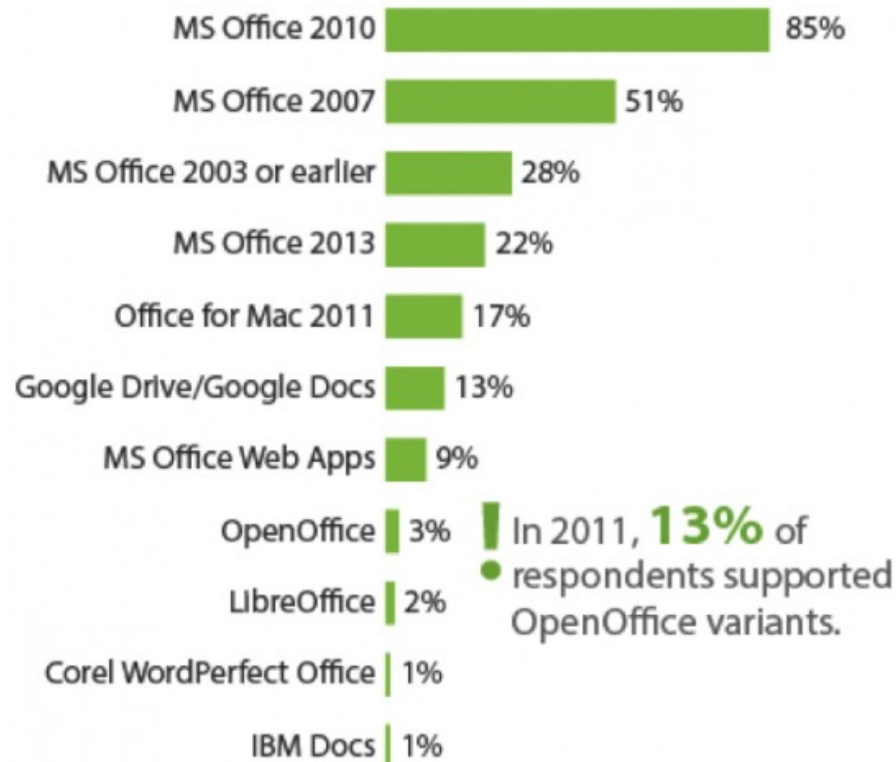
Free Software Market Share

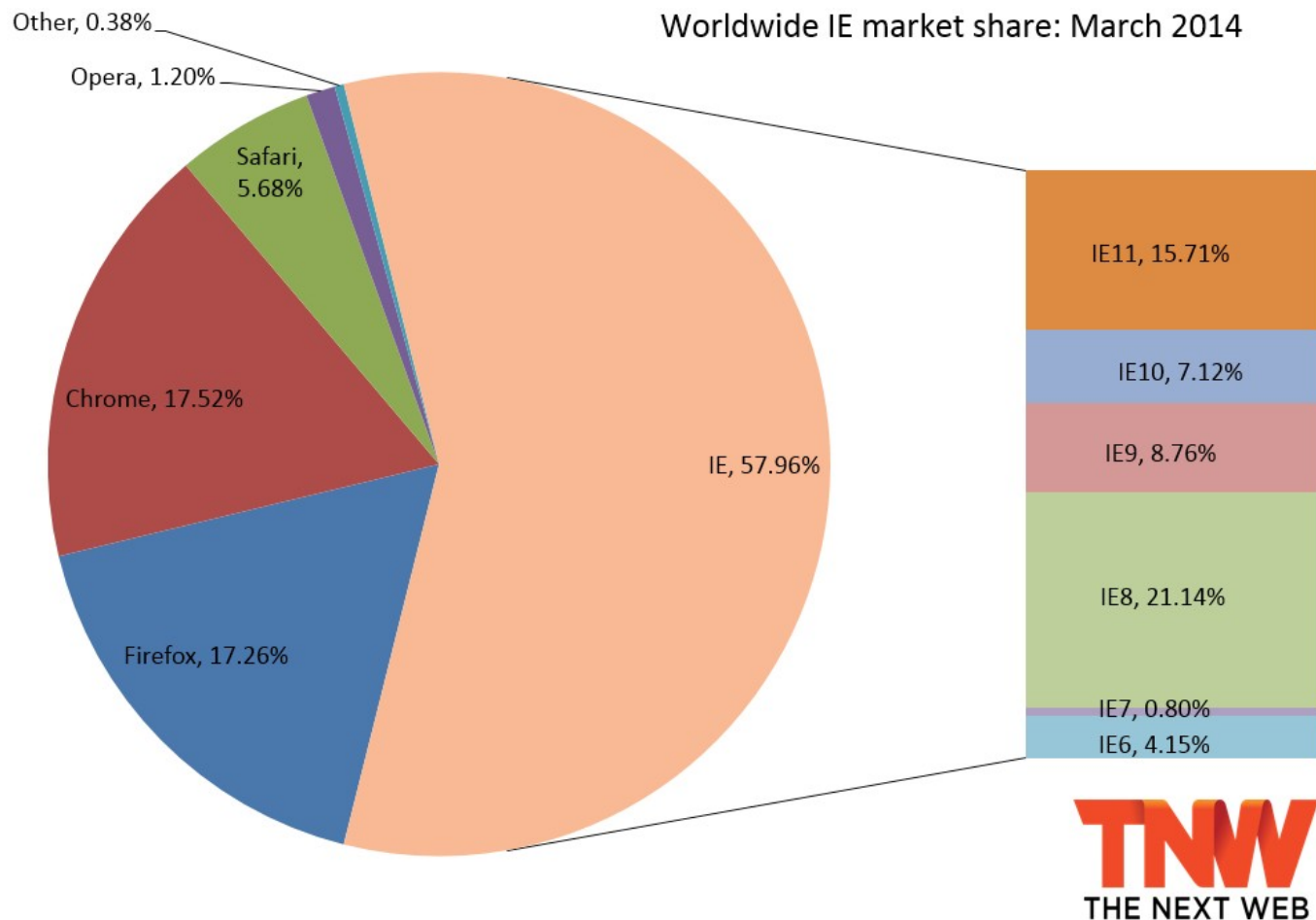

Source: http://dazeinfo.com

Free Software Market Share

"At your organization, which office productivity suites are currently in use?"

MS Office 2010	85%
MS Office 2007	51%
MS Office 2003 or earlier	28%
MS Office 2013	22%
Office for Mac 2011	17%
Google Drive/Google Docs	13%
MS Office Web Apps	9%
OpenOffice	3%
LibreOffice	2%
Corel WordPerfect Office	1%
IBM Docs	1%

In 2011, **13%** of respondents supported OpenOffice variants.

Base: 148 IT decision-makers (multiple responses accepted)

Source: http://www.itnews.com.au/News/371024,libreoffice-steps-up-fight-for-microsoft-users-with-new-version.aspx

Free Software Market Share

Worldwide IE market share: March 2014

Other, 0.38%
Opera, 1.20%
Safari, 5.68%
Chrome, 17.52%
Firefox, 17.26%
IE, 57.96%

IE11, 15.71%
IE10, 7.12%
IE9, 8.76%
IE8, 21.14%
IE7, 0.80%
IE6, 4.15%

TNW THE NEXT WEB

Source:http://thenextweb.com/insider/2014/04/01/ie11-gains-market-share-chrome-finally-passes-firefox/

To me, why?

- At home, I use Asus RT-N12E Wireless Router,
- It runs
  - Linux kernel 2.6.30
  - Busybox 1.13
  - Iptables 1.4.4

GPL
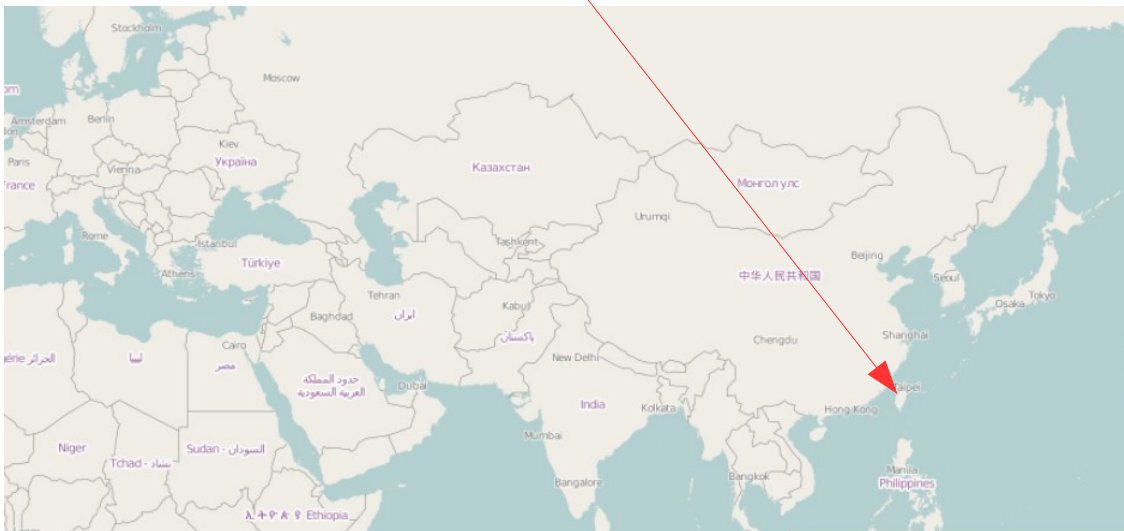
9800 KM away

Image source: (1) http://osm.org, (2) http://www.asus.com

To me, why?

- I use smart phone HTC Butterfly S
- It runs Android 5
  - Linux kernel modifications

Image source: http://www.htc.com

To me, why?

- At office, I have 8 machines
- Six of them run Debian Linux
  - Servers, desktops
- One of them runs Ubuntu Linux
  - The OpenStreetMap cache server in Asia
- One of them runs Windows 7
  - I still have to submit proprietary format doc to boss
- Air pollution! Freedom purity = 87.5% only in my office
  - Need more efforts

Image source: (1)http://www.asus.com (2) http://www.asus.com (3) http://ubuntu.com
(4) http;//debian.org (5) http://microsoft.com

To me, why?

- My salary
  - HPC...
- My coding
  - Scripts, GNU/Linux, git, ...
- My research
  - Clonezilla, DRBL,
  - GParted,
  - OpenStreetMap...
- My daily usage
  - Debian, Ubuntu, Libreoffice, openssh, VLC...
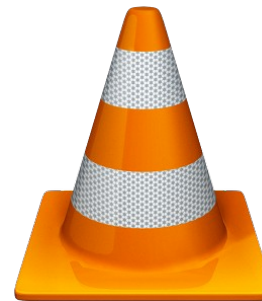 - Firefox, iceweasel

Image source: the original free software projects, respectively

Conclusions

- Air is not important unless you are not getting any...
  - Chinese people definitely knew that
- Free software is not important unless you are not getting any...
  - After being a free software user (from 1993) and developer (from 2002) so many years
  - I can not imagine the days without free software
- For me, I want to be not only the consumer of air, but also the producer of air
  - Free software users and developers

Photo source: http://ithome.com.tw

世界級開源軟體專案舵手

開源是IT世界的空氣

開源技術如Linux早就深植於IT世界，不見得是時髦話題，但卻是如空氣一般，早已是各產業的必需品，現在更是開發者揚名全球跨入世界的最佳舞臺

中華民國軟體自由協會理事長 蕭志榥（stevenshiau）

開源資用 參與開源超過20年，於2003年開始帶領國家高速網路與計算中心的國際發企龍龍與再生龍，透過集中管理系統，以節省大量部署Linux作業系統的時間，目前再生龍在全世界每年的下載量達200萬人次，連NASA都在用。

Questions ?