The State of Fedora

(F21, F22, and beyond)

Presented by
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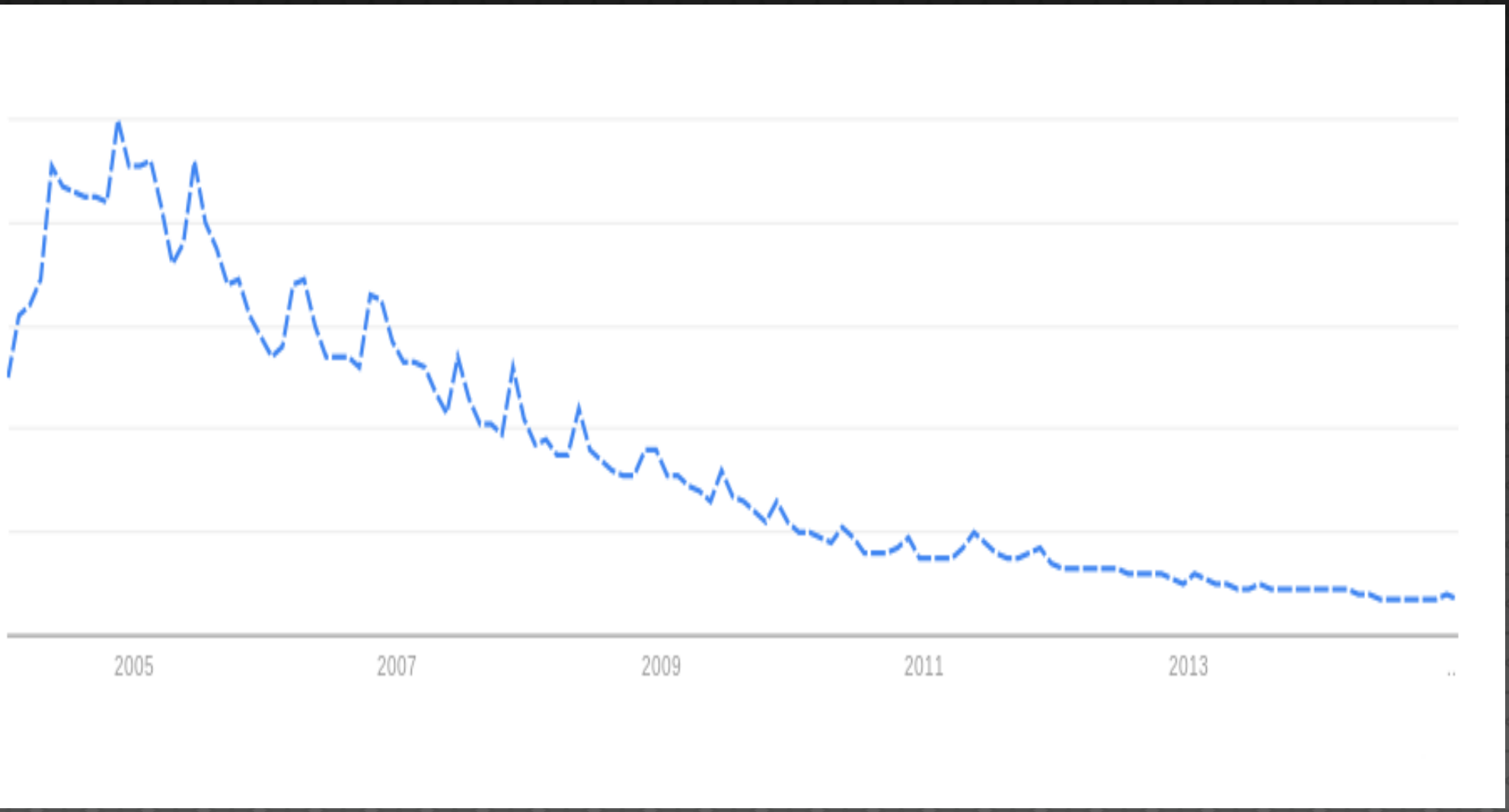
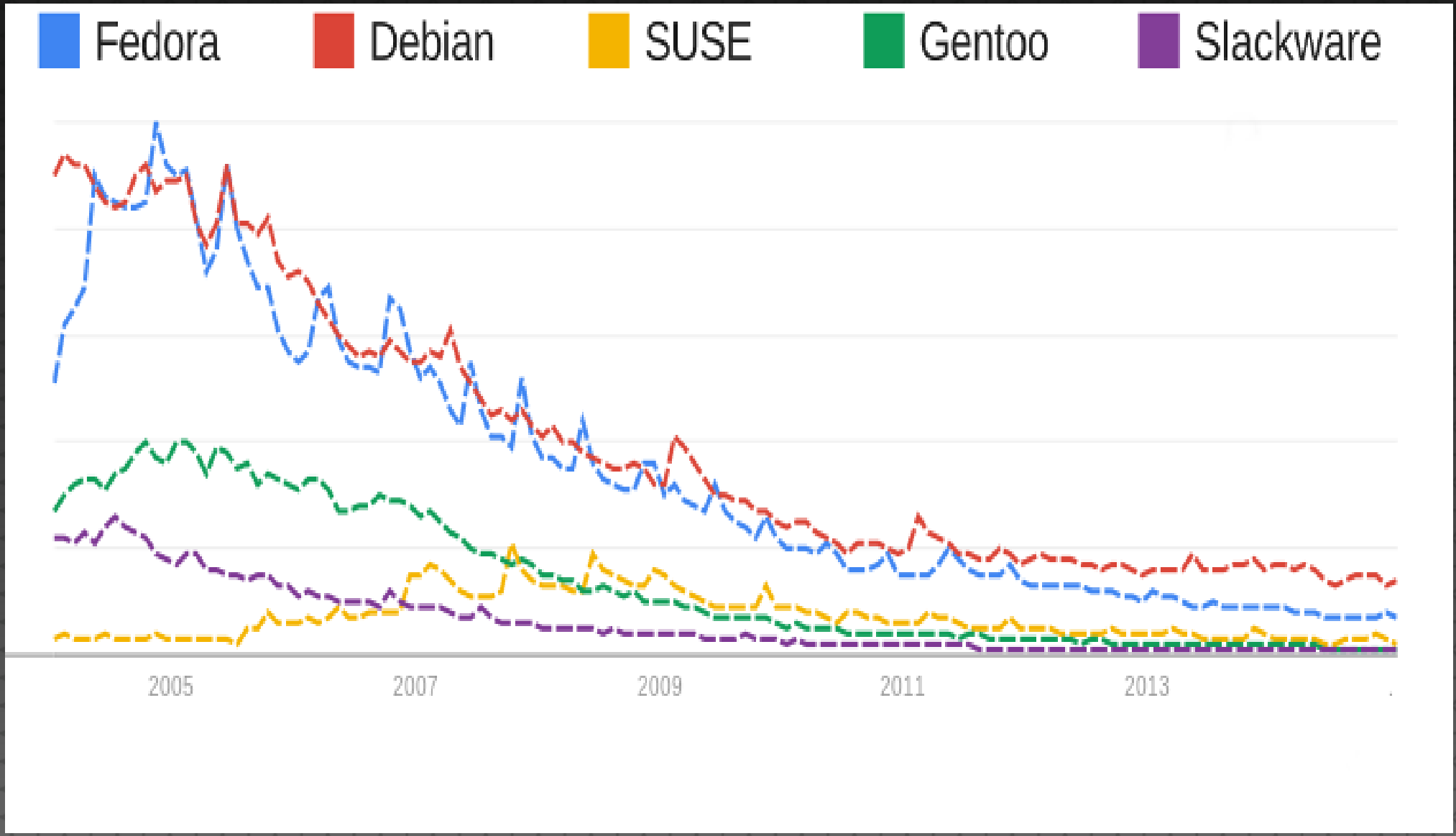
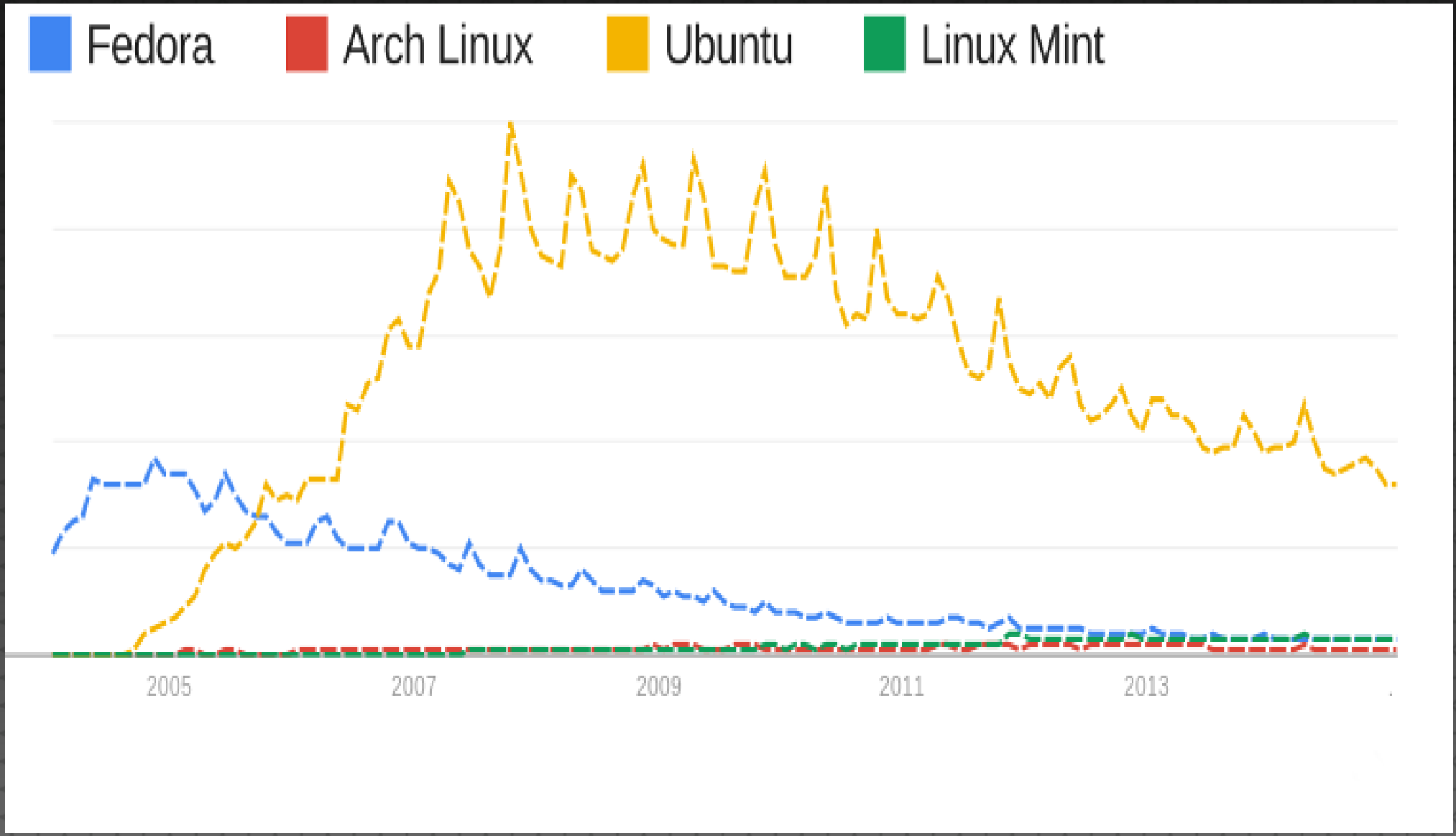
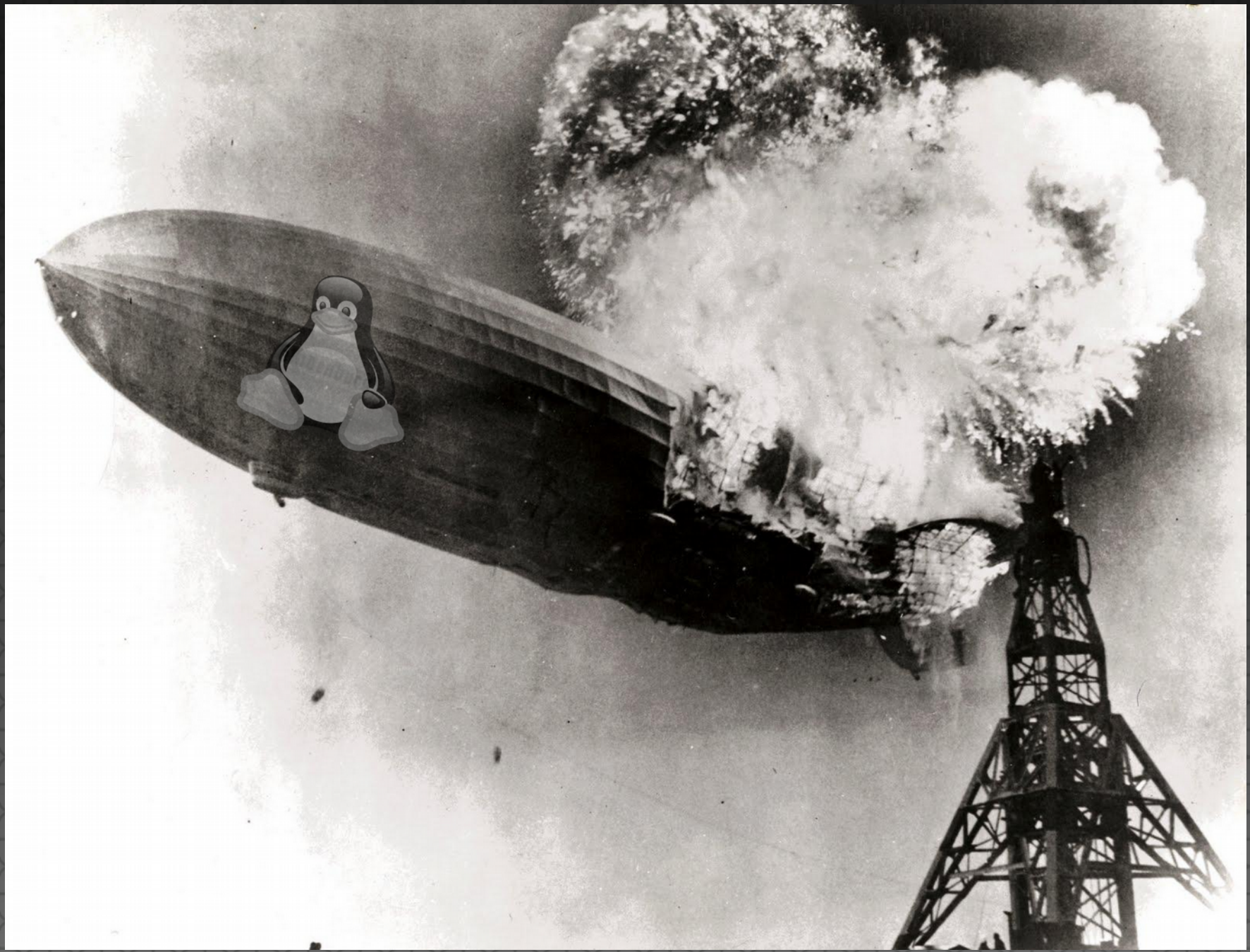
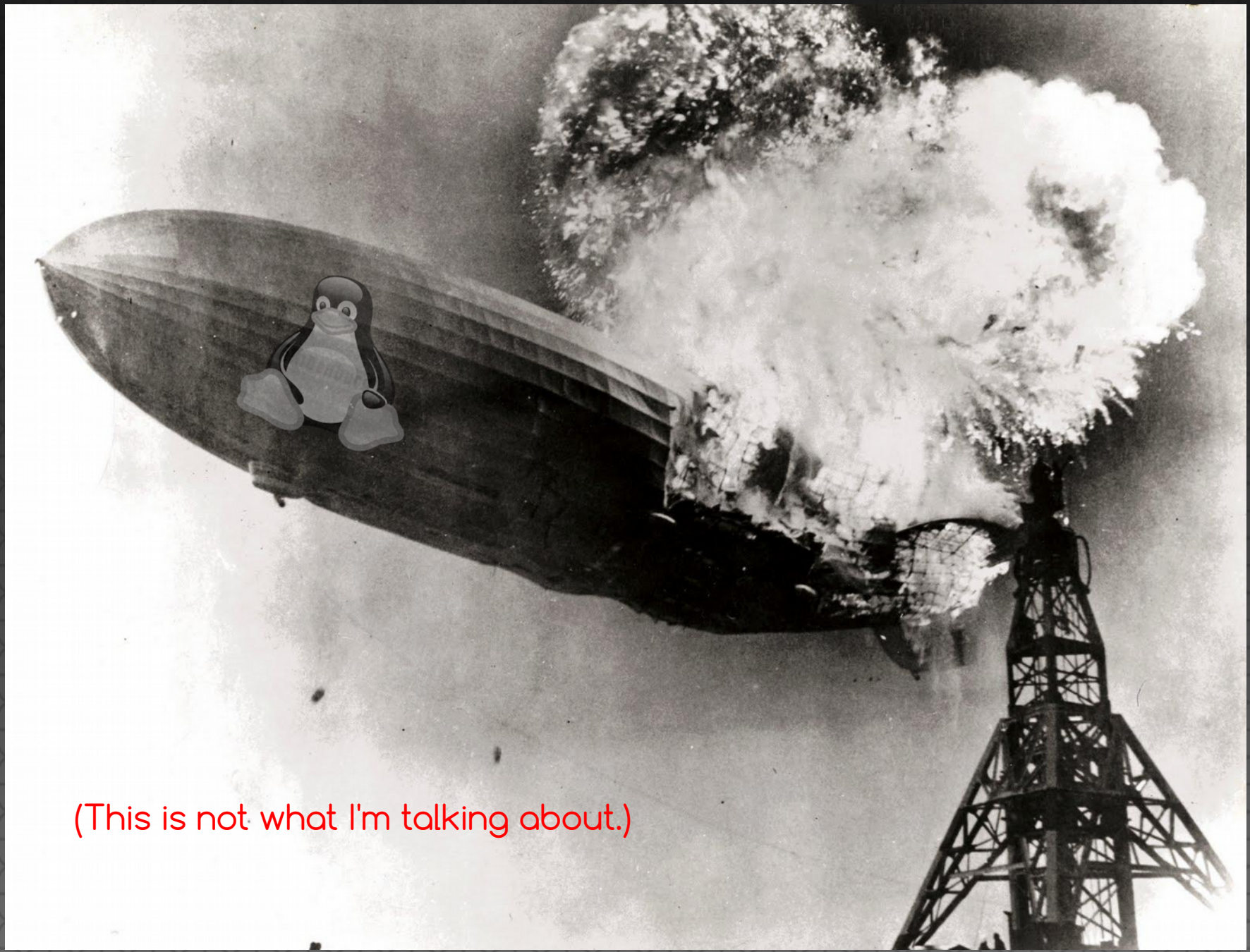
Wow
very Fedora
much sysadmin
lol mattdm
so hpc
such university
many red hat


2005
2007
2009
2011
2013

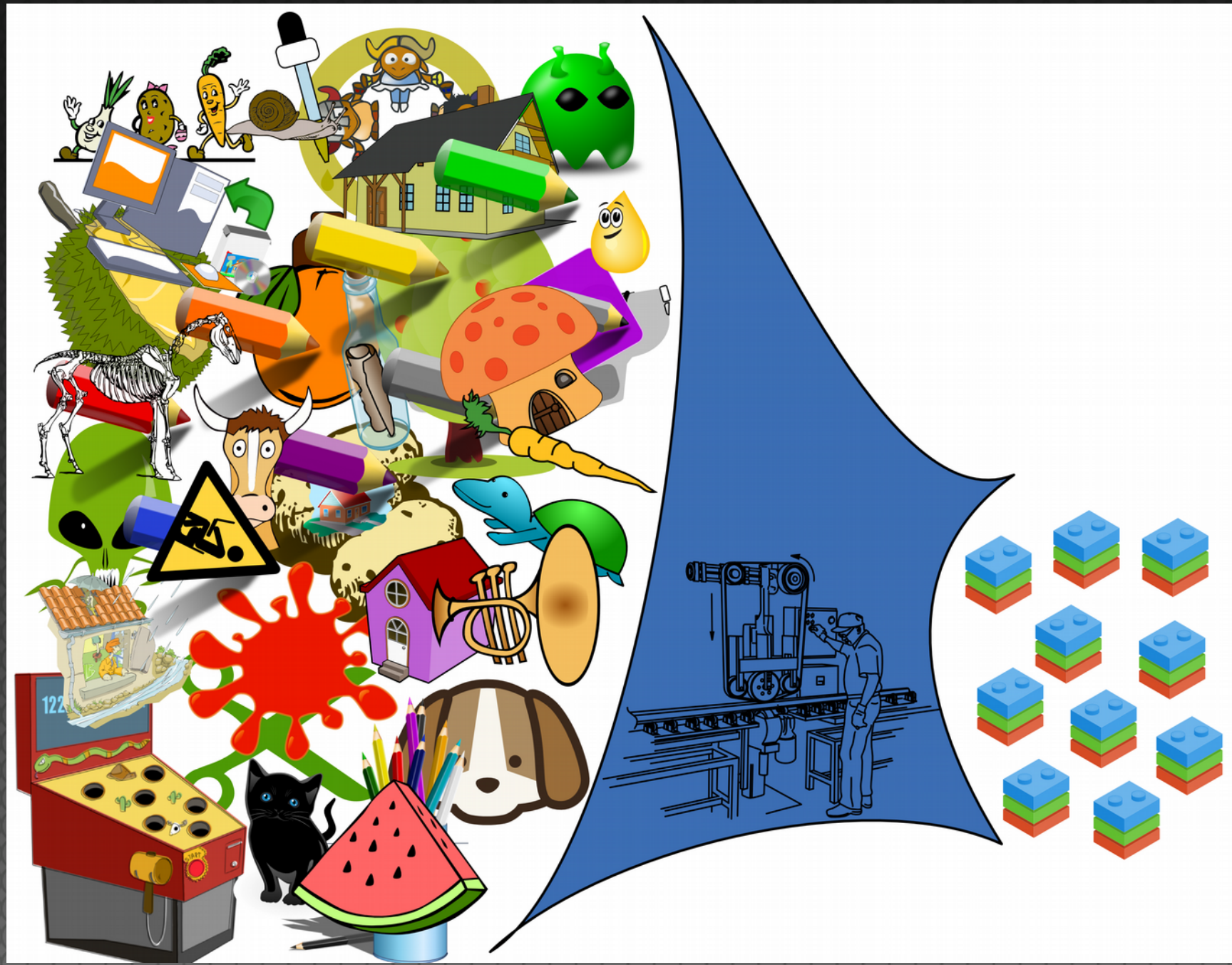

Fedora
Debian
SUSE
Gentoo
Slackware
2005
2007
2009
2011
2013

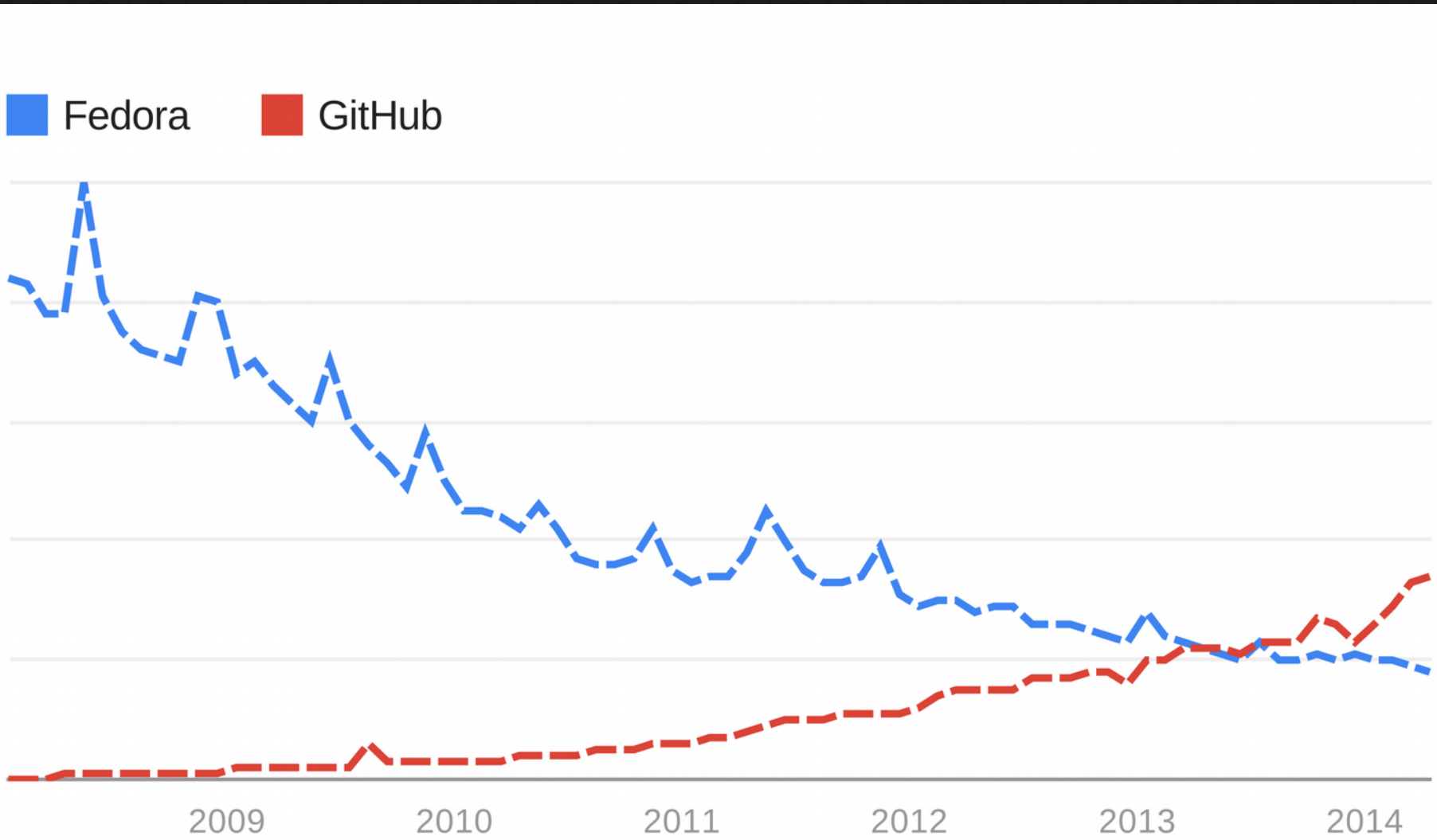

Fedora
Arch Linux
Ubuntu
Linux Mint
2005
2007
2009
2011
2013




(This is not what I'm talking about.)

CC BY-NC-ND eBoy
.com/eboy/2013/04/17/eby-bazaux-133k/




Fedora
GitHub
2009
2010
2011
2012
2013
2014

Fedora

GitHub

Meanwhile, in the world

- Phones! Tablets! Android! ChromeOS!
- IT budgets shrinking, automation everywhere
- Cloud! EC2! OpenStack! GCE! (And, PaaS)
- Containers! Docker! CoreOS!
- Language-stack package centers

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And so...

- Base OS considered boring
- Distro effort / reward balance changed
- Distro-level package management obsolete?

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Shout outs!

- Everyone is awesome.
- openSUSE
  - Community release engineering
  - Rings model for Factory
  - Continuous integration
- Arch Linux documentation rules
- CoreOS

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FREEDOM.
FRIENDS.
TM
FEATURES.
FIRST.

Fedora.next

- A word for planning and direction-setting — instead of marching ahead without looking around
- No secret agenda (except Fedora success, which isn't too secret)
- Open to your contributions
- Going to take a few years, with incremental improvement

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Additive, not Restrictive

- We do a pretty good job of making the base distro
- Collection of packages is mostly high quality

So:

- What do we need to do outside of that?
- How can we make what we already have even better?

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More... things!

- Positive voice for server and cloud
- RHEL and CentOS stakeholders
- Strategy for desktop success
- Combat or work with “base = boring” trend
- Difficulty building on top of Fedora
- Barriers to entry in the wrong place
- Balance of innovation vs. change management

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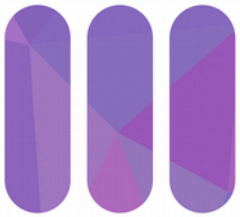

CLOUD

SERVER

WORKSTATION

Why?

- Voice for Server
- User focus for Workstation
- Flexibility for Cloud

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More why!

- Grow the user base in strategic areas
- Easier development target
- Connect server to future RHEL

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VS

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We can ship sets without taking away the basic blocks!

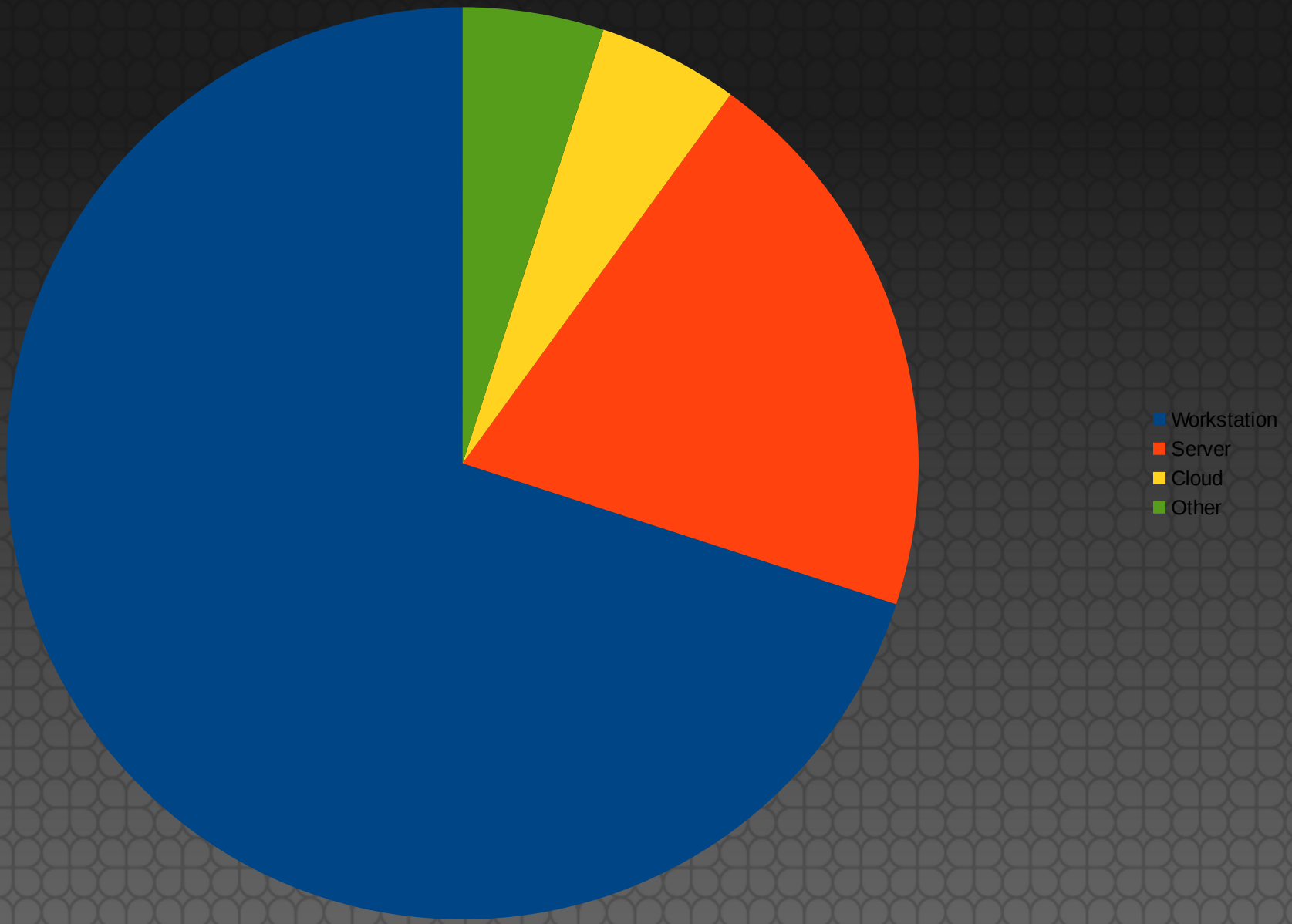
Docker! Docker! Docker! (Kubernetes!)

Project Atomic: best, most secure way way to run containerized apps in the cloud

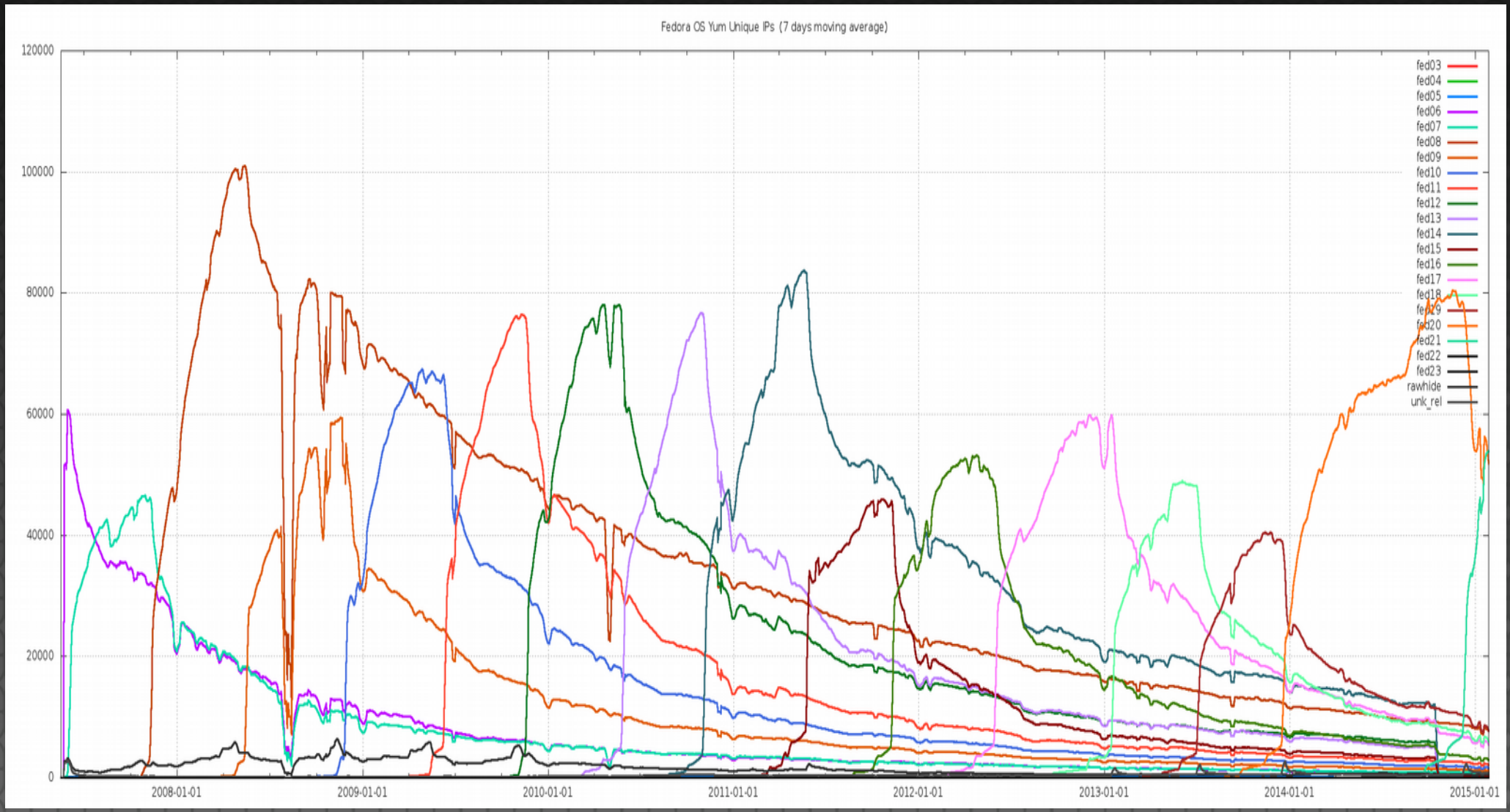
Cloud Base Image: minimal base

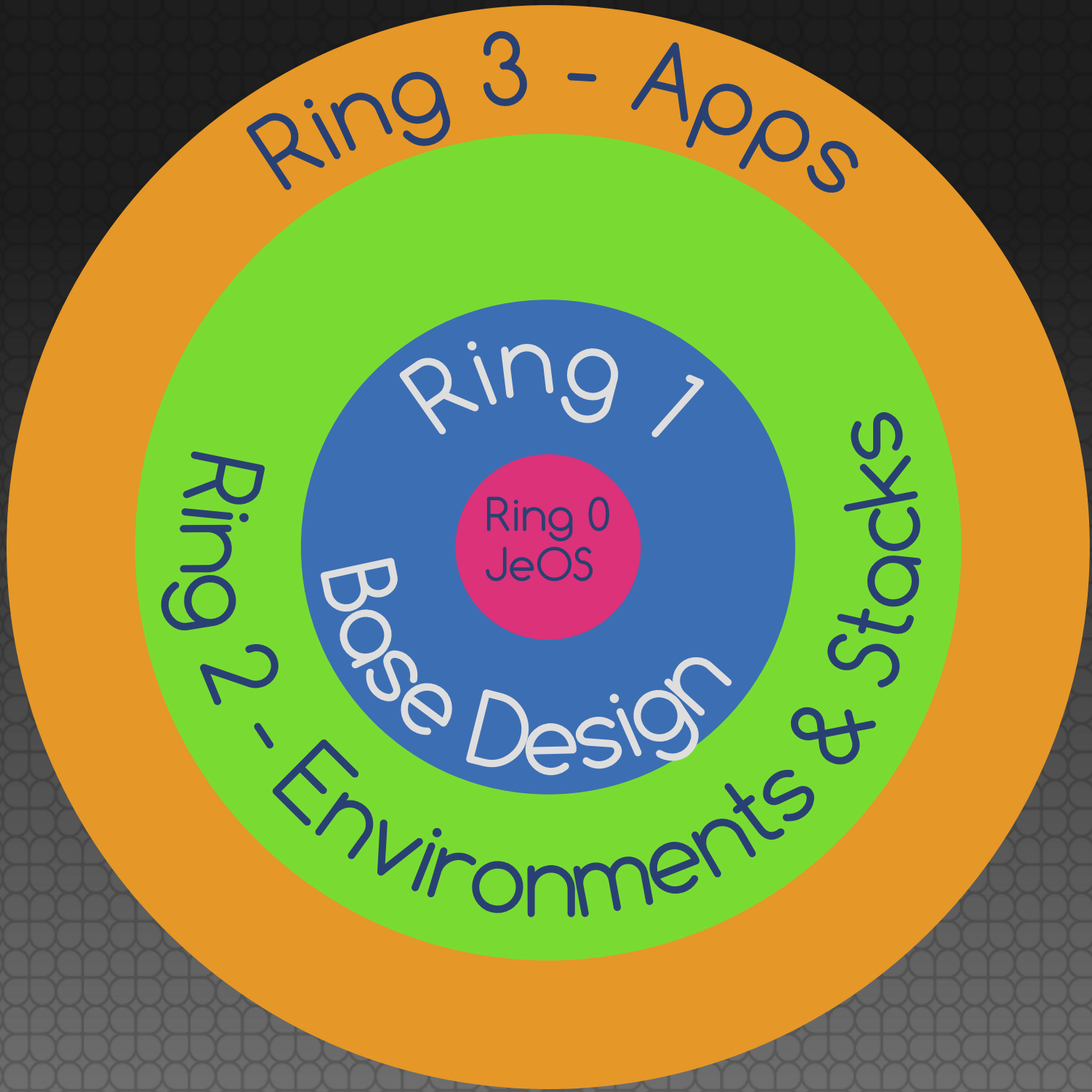
Easy deployment of predefined server roles
Using an API or the Cockpit GUI

Best Linux desktop for developers
(developers are people, too)



Extremely rough numbers with considerable guesswork and not yet enough data


Fedora OS Yum Unique IPs (7 days moving average)
120000
100000
80000
60000
40000
20000
0
2008-01-01
2009-01-01
2010-01-01
2011-01-01
2012-01-01
2013-01-01
2014-01-01
2015-01-01
fed03
fed04
fed05
fed06
fed07
fed08
fed09
fed10
fed11
fed12
fed13
fed14
fed15
fed16
fed17
fed18
fed19
fed20
fed21
fed22
fed23
rawhide
unk_rel


Ring 3 - Apps
Ring 2 - Environments & Stacks
Ring 1
Base Design
Ring 0
JeOS

Base Design

- A self-hosting “center”
- Self-hosting is hard but important
- Common core for everything else
- An API we can (eventually) define
- Focus engineering resources for quality

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Env & Stacks

- Environments are where you run the code *you* care about
  - PaaS
  - Desktop app containers
- Stacks are modular collections of *software which is used by other software*
  - Languages
  - Frameworks
  - Databases
  - Whatever

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Apps?

- This is a future thing. We'll see where it goes!
- Atomic
- LinuxApps?

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Ring Rules

- Policy model, not an OS layer diagram
- Bundled libraries (with documentation?)
- Multiple versions
- Not necessarily RPM everywhere!
- Different lifecycles (not yet!)
- SIGs create “bubbles” of policy
- Traditional RPM packaging has a place too

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Fedora 22

- May Release (Strict schedule. Well, strict*ish*.)
- Python 3 by default
- DNF package manager
- Gnome 3.16
- More Server Roles
- Even more minimal cloud image
- Updated Atomic
- Other stuff: Elasticsearch, local DNS, libinput, Ruby 2.2 + Rails 4.2, Perl 5.20, GCC5

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Questions?

Contact:
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