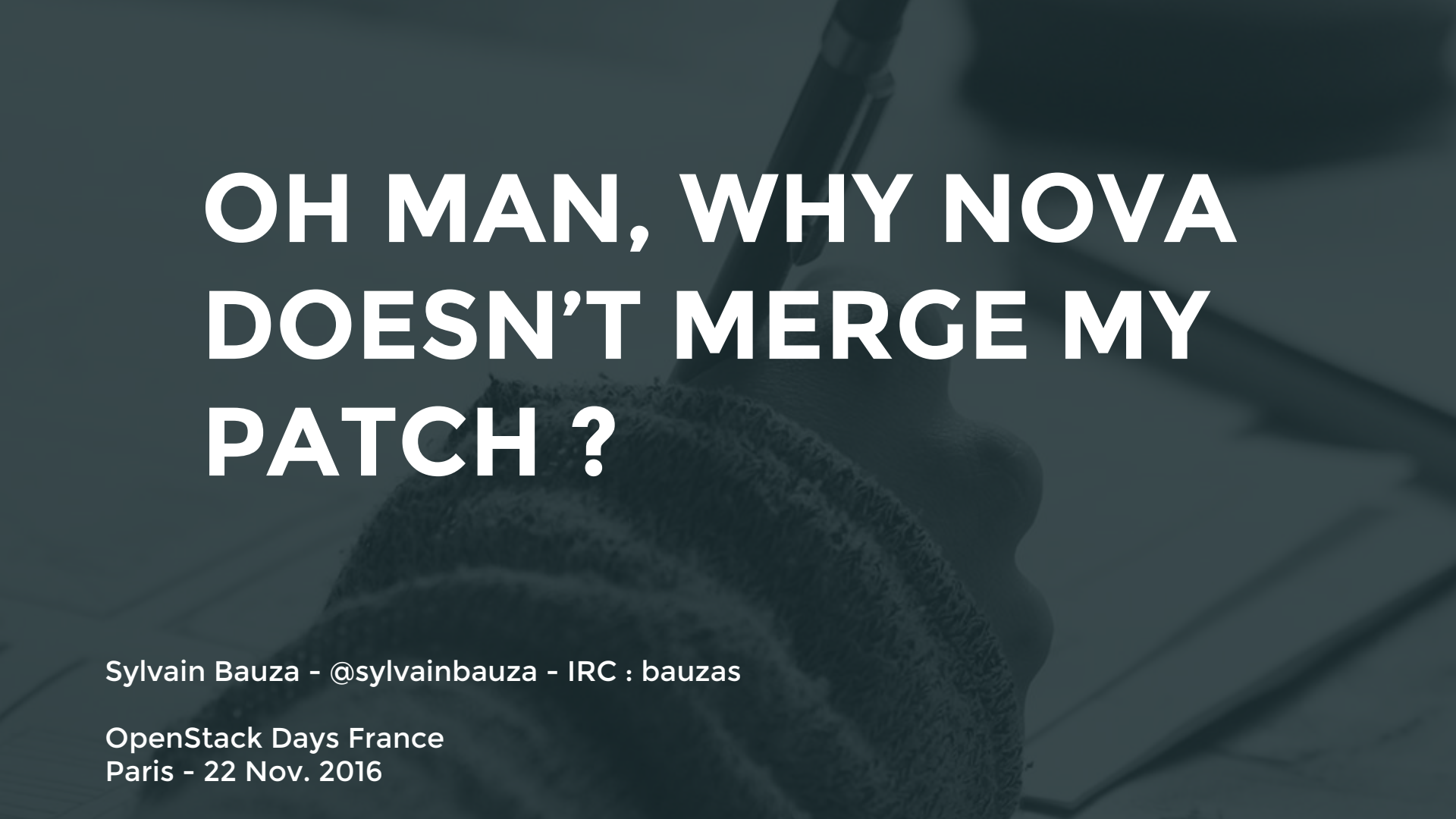


OH MAN, WHY NOVA DOESN'T MERGE MY PATCH ?

Sylvain Bauza - @sylvainbauza - IRC : bauzas

OpenStack Days France
Paris - 22 Nov. 2016

BONJOUR

You can find me at **@sylvainbauza** or on Freenode **bauzas**

THIS IS AN OPINIONATED TALK

Wait, what?

HOW DO YOU FOLKS KNOW THE OPENSTACK COMMUNITY?

Let's (re-)introduce a bit of concepts here.

Open SOURCE
Open COMMUNITY
Open DEVELOPMENT
Open DESIGN

Most decisions are made using a lazy consensus model

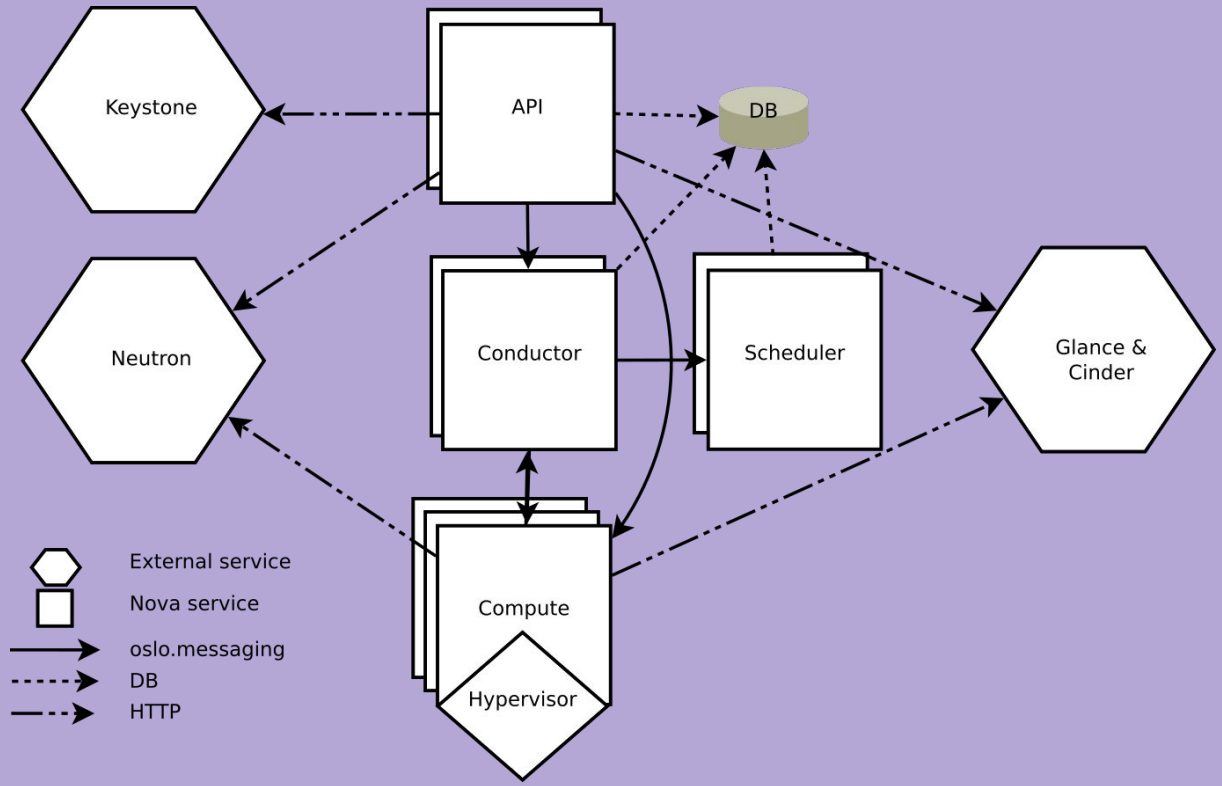
Design Summits

OKAY, BUT WHAT ABOUT NOVA ?

Er... “Compute service” rather.

To implement services and associated libraries to provide massively scalable, on demand, self service access to compute resources, including bare metal, virtual machines, and containers.

THE VIEW


Keystone
API
DB
Neutron
Conductor
Scheduler
Glance &
Cinder
Compute
Hypervisor
External service
Nova service
oslo.messaging
DB
HTTP

Project Overview / SCM overview / Activity by repositories / Repository

nova.git

</> Source Code Management

Lines added	2,732,986
Authors	1,194
Branches	12
Commits	27,262
Committers	1,194
Files	13,341
Start	2010-05-27
End	2016-11-08
New Authors	1,194
Lines removed	3,172,220
Repositories	1

THE SIZE

2,732,986

... and 1194 authors !

SO, HOW THE PROJECT IS ORGANIZED, THEN?

Cores* against non-cores, right?

** Cores = Maintainers*

DIFFERENT GROUPS ?

OPERATORS

*a person who manages a **working** ~~or industrial establishment, enterprise, or~~ **system**.*

They know.

CONTRIBUTORS

*a person who contributes something, ~~especially money,~~ in order to **provide** or **achieve** something together **with other people.***

They help.

MY OWN TAXONOMY

ON-OFF CONTRIBUTORS

Very small amount of time dedicated to the project but can provide very important bugfixes.

DOMAIN GURUS

Experts in their own area of code, very good at writing specific related features.

WHITE KNIGHTS

Willing to help the project by any case and not afraid of trying to understand unknown code.

Roles

Or ~~Recognition~~ ?

Subteam leaders

Nova-core

Czars

Cross-Project Liaisons

Nova-specs-core

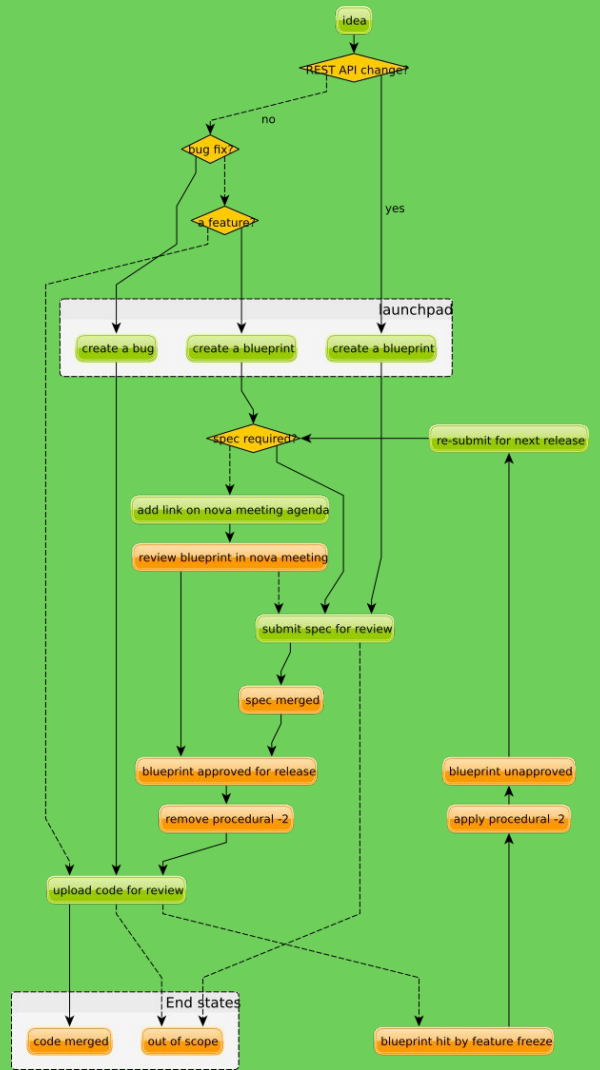
Subsystem maintainers

Project Team Lead

WITH GREAT POWER COMES
GREAT RESPONSIBILITIES
youtube.com/321Action123Cut

OUR PROCESS IS EASY

(Just kidding...)



TIMING IS IMPORTANT

BUT WHY ?

Over Newton

942 Filed Bugs
482 Resolved Bugs

175 draft Blueprints
66 completed Blueprints

3184 Change Requests
751 of them abandoned
17168 Patch Sets (94/day*)

543 reviewers (thanks!)
13 core reviewers

** day = 365 / 2*

Total open reviews: 1082
Waiting on submitter: 632
Waiting on reviewer: 447
Waiting on CI (no votes yet): 3

Waiting for reviewers :

Average wait time between revisions : 40 days

Average wait time since the creation : 100 days

Waiting for submitters :

Average wait time between revisions : 49 days

Average wait time since the creation : 125 days

Nova priorities and subteams

Scheduler and Resource Providers

Cells v2

Notifications

REST API

SR-IOV & PCI

Live-migration

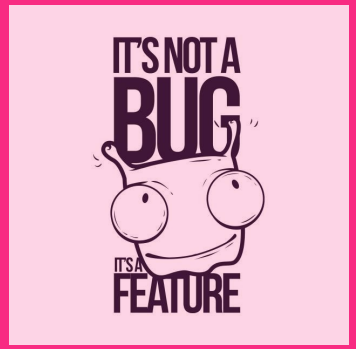
... and others !

A scheduler story...

COOL, BUT HOW CAN NEW IDEAS BE ACCEPTED ?

You have a solution and you want to merge it, right?

YOUR IDEA



First, engage !

#opentack-nova

IRC channel (Slack ? Meh.)

Think of an IRC bouncer
(ZNC, irssi, others...)

Mailing-lists

openstack-dev@

openstack-ops@

Weekly IRC meetings

(incl. subteams)

Eavesdrop logs

Face-to-face

Project Team Gathering

Forum (at Summit)

You really need pictures, mmm ?

Trust is the key

Consider the problem, not the solution

Be resilient

(Try to) Get the tribal knowledge (and document it)

Keep in mind the cultural diversity

Let's gently agree to disagree

Get credit

Bug triage : we need you !

CI jobs : yes, you can (fix'em) !

Stable branches : back to the future

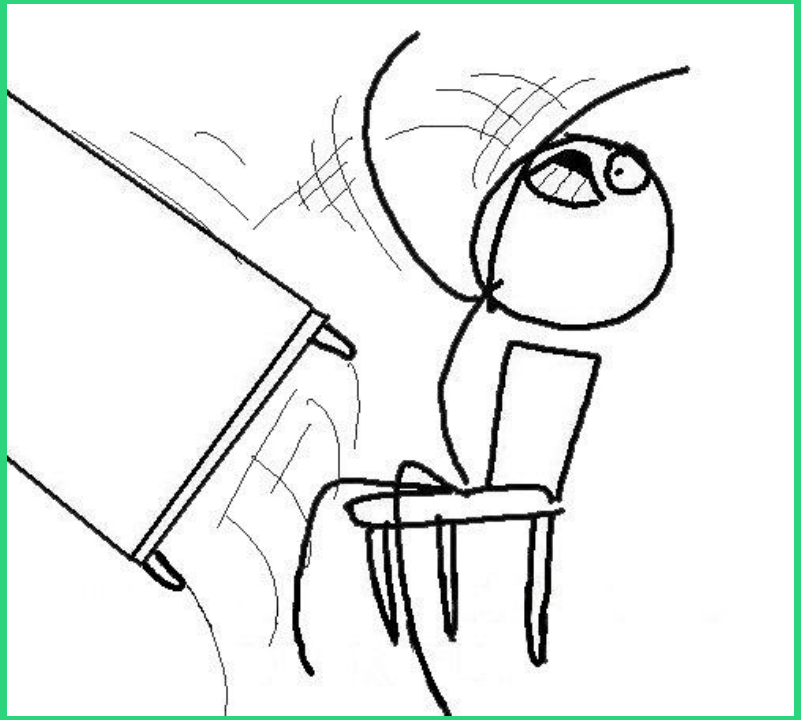
Savvy reviews

Quantity doesn't count, quality does.

Stability is far more important than velocity

Spot the untraceable

Be honest and vote wisely



Be core, a final goal ?

Not the end, just the beginning...

It's a duty, not a merit.

Recognition is the key

Your call.

Resources and more

http://docs.openstack.org/developer/nova/how_to_get_involved.html

https://wiki.openstack.org/wiki/Nova

Upstream Training

Next talk with Kendall and Patrick @1330

THANKS!
Any questions ?
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IRC : bauzas
sylvain AT bauza.org