

Overview of the Redis NoSQL solution

Main deck

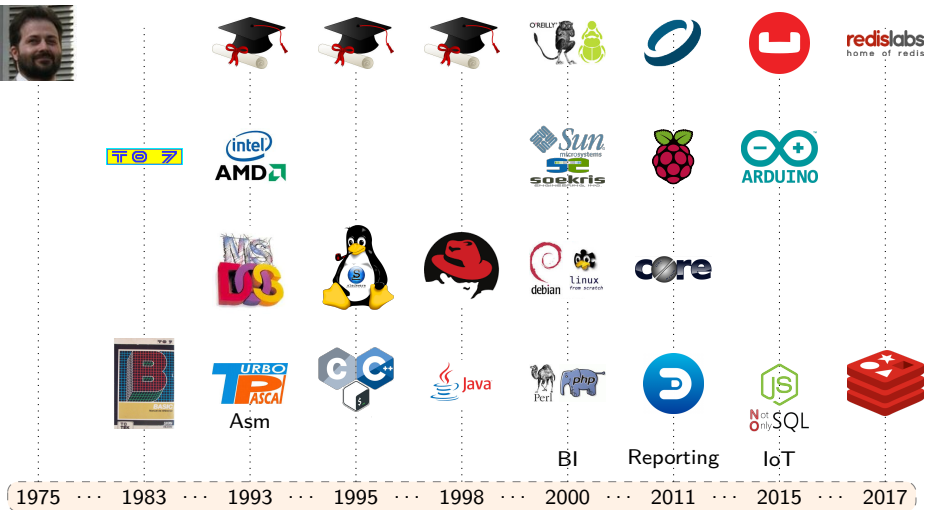
François Cerbelle <francois@redislabs.com>

RedisLabs Inc.

October 23, 2017 à 17:54

Introduction

About me





```
{  
  "type" : "Business card",  
  "name" : "François Cerbelle",  
  "email" : "francois@redislabs.com",  
  "mobile" : "+33782997266",  
  "twitter" : "@fcerbelle",  
  "blog" : "http://fcerbell.github.io/",  
  "github" : "fcerbell",  
  "linkedin" : "fcerbell",  
  "youtube" : "FrancoisCerbelle",  
  "homepage" : "http://www.cerbelle.net/redmine"  
}
```

Redis community

About Antirez



1977 ··· 1997 ··· 2009 2010 2011 2012 2013 2014 2015 2016



sysadmin

1977 ··· 1997 ··· 2009 2010 2011 2012 2013 2014 2015 2016



sysadmin



Redis

1977 ··· 1997 ··· 2009 2010 2011 2012 2013 2014 2015 2016

redis



sysadmin



Redis

vmware

1977 ··· 1997 ··· 2009 2010 2011 2012 2013 2014 2015 2016



sysadmin



Redis

vmware



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sysadmin



Redis

vmware



redislabs
home of redis

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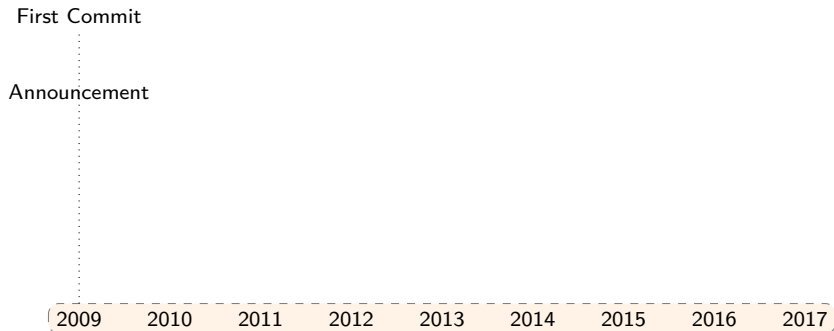
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{  
  "type" : "Business card",  
  "name" : "Salvatore 'Antirez' Sanfilippo",  
  "email" : "antirez@gmail.com",  
  "twitter" : "@antirez",  
  "blog" : "http://antirez.com",  
  "oldblog" : "http://oldblog.antirez.com",  
  "github" : "antirez",  
  "homepage" : "http://www.invece.org/"  
}
```

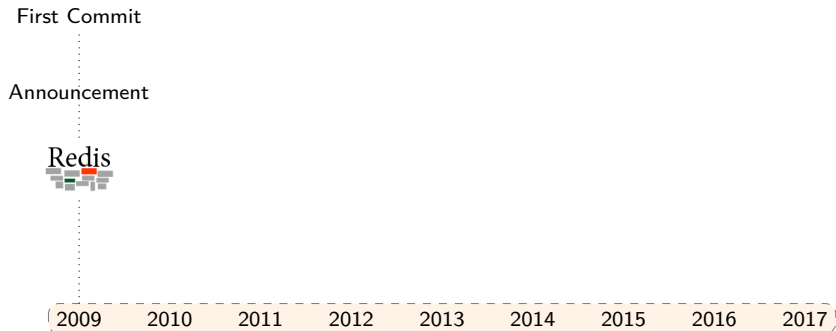
Redis community

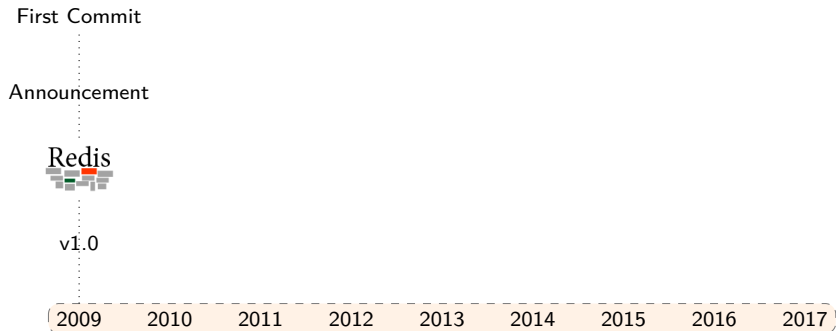
About Redis

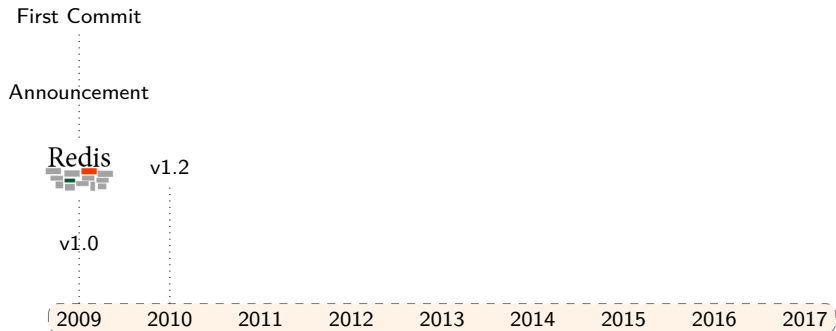
First Commit

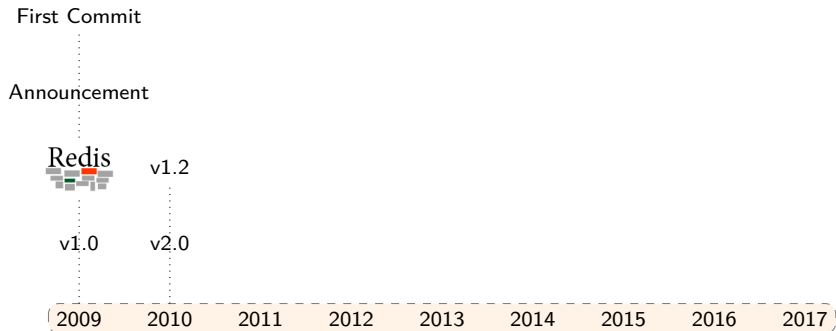
2009 2010 2011 2012 2013 2014 2015 2016 2017

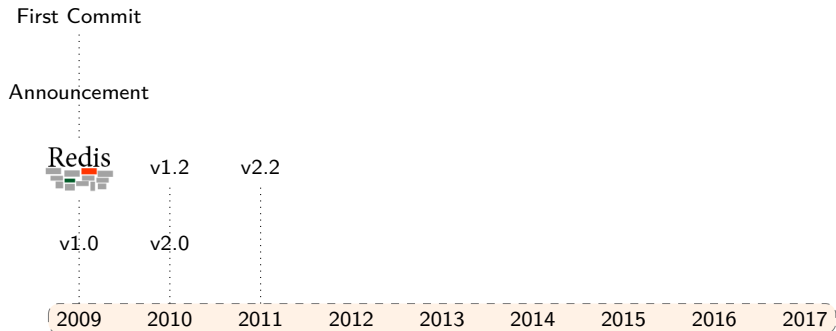


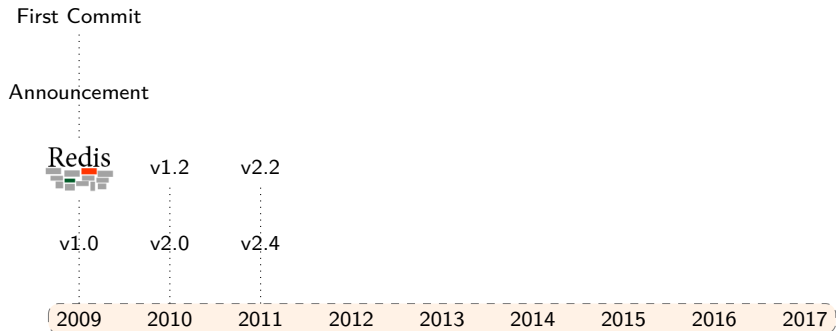


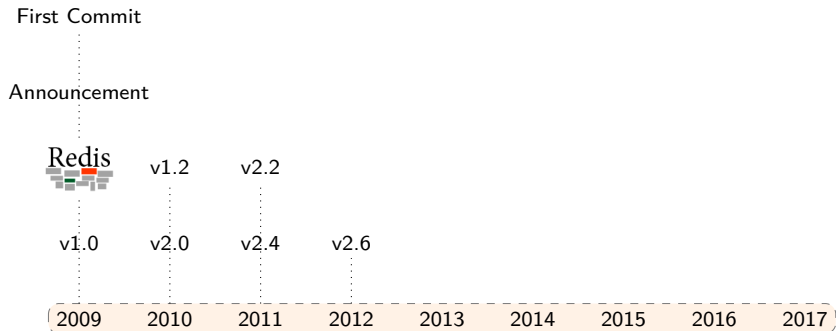


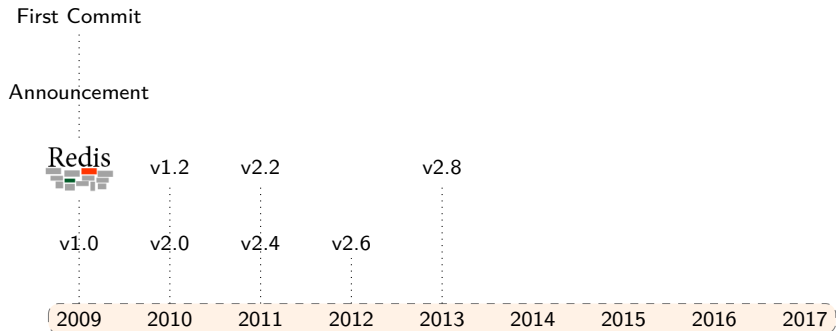


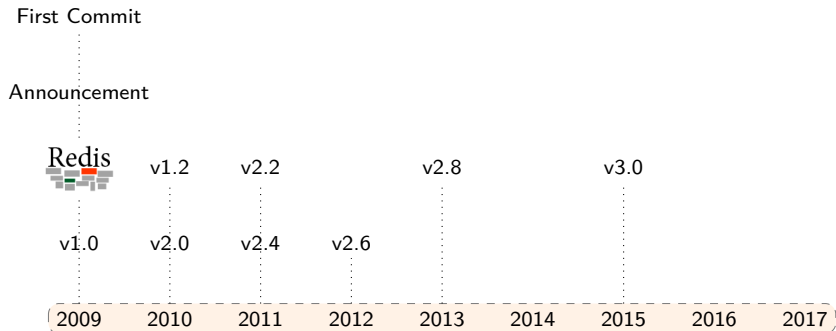


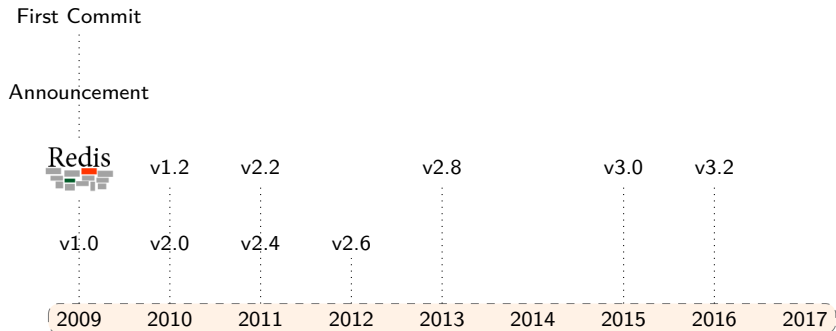


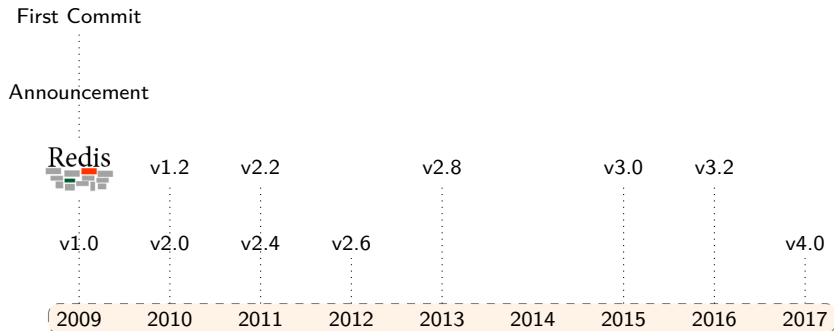












Remote dictionary server (Redis) version numbers are following the semantic versioning, with *major.minor.patchlevel*.

Semantic Versioning is a formal convention for specifying compatibility using a three-part version number: major version; minor version; and patch. The patch number is incremented for minor changes and bug fixes which do not change the software's Application Programming Interface (API). The minor version is incremented for releases which add new, but backward-compatible, API features, and the major version is incremented for API changes which are not backward-compatible. For example, software which relies on version 2.1.5 of an API is compatible with version 2.2.3, but not necessarily with 3.2.4.

— Wikipedia

https://en.wikipedia.org/wiki/Software_versioning#Degree_of_compatibility

Given a version number MAJOR.MINOR.PATCH, increment :
the MAJOR version when you make incompatible API changes,
the MINOR version when you add functionality in a backwards-compatible manner, and
the PATCH version when you make backwards-compatible bug fixes.
Additional labels for pre-release and build metadata are available as extensions to the MAJOR.MINOR.PATCH format.

— SemVer.org

<http://semver.org/>

The minor version number also represents the stability :
odd minor versions = development versions,
even minor version number = stable releases.

Redis community

Community

French Redis meetup groups

- France (polls and news) <https://www.meetup.com/Redis-France/>
- Paris (Meetups and Workshops) <https://www.meetup.com/Paris-Redis-Meetup/>
- Brussels (Meetups and Workshops) <https://www.meetup.com/Redis-Bruxelles/>
- Lille (Meetups and Workshops) <https://www.meetup.com/Redis-Lille/>
- Toulouse (Meetups and Workshops) <https://www.meetup.com/Redis-Toulouse/>
- Bordeaux (Meetups and Workshops) <https://www.meetup.com/Redis-Bordeaux/>
- Lyon (Meetups and Workshops) <https://www.meetup.com/Redis-Lyon/>

UK Redis meetup groups

- London (Meetups) <https://www.meetup.com/Redis-London/>

Redis community

Recognition

Redis

The RESP protocol

SET A 1

*3\r\n\$3\r\nSET\r\n\$1\r\nA\r\n\$1\r\n1\r\n

*3
\$3
SET
\$1
A
\$1
1

The developers' corner

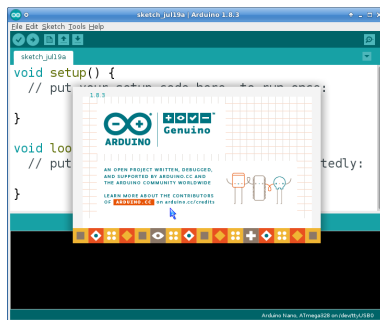
IoT embedded

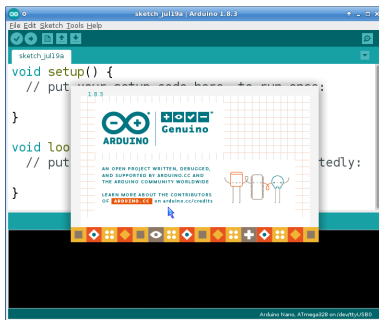
Installation of the Arduino development environment with the relevant libraries.

- 1 Get the bits
- 2 Install the IDE and customizations
- 3 Add the ESP8266 card support

<https://goo.gl/iDoXwL>

NEVER EVER do something that is not explicitly described in the labs document or told by the trainer or you will get into trouble. DO NOT take shortcuts or test any exciting options.





- Create a GitHub project
- Register your device in the Lab cluster
- Create a project from the template,
- Initialize git locally,
- Link local git repository to GitHub repository.

- (Re)Connect to Redis
- Send a simple Redis command to authenticate
- Send a simple Redis command
- Compile, upload, and execute
- Save and commit your code
- DEL, SET, TYPE, INCR and SET (Extra if finished early)

- Add the sensor value to a Redis list
- Notify the listening consumer applications
- Save and commit your code
- Limit the notifications (Extra if finished early)

- Enable Pipelining and show stats

I would like to thank :

- YOU for being here;
- My manager Gabe who trusted me and made this meetup possible;
- Itamar who helped me and asked me to deliver this meetup in Tel Aviv ;
- David who helped me a lot with the AngularJS visualization.

If you liked and if you want more fun meetups, please do the following :

- Twit about it with relevant hashtags,
- Create projects on GitHub and tell us,
- Write a blog post and tell us,
- Spread the word around you.

If you want to know more about *Redis Enterprise (Redis^e)*, you can subscribe to :

- Our webinars,
- Our twitter channel.