

jOrthanc

Widening Orthanc's adoption

The TL;DR
jOrthanc in a nutshell

Recap
What is Orthanc?

Adopting Orthanc

Big-bang, Parallel or Phased?

Integration

The need for plugins

Things to consider

A man in a suit and tie is seated at a table, holding a glass of beer. He is looking towards the camera with a slight smile. The background shows other people at a social gathering, possibly a restaurant or bar, with shelves of bottles visible in the distance. The entire image is in grayscale and has a dark overlay.

Here's to a true story
The one where we modernise PACS services

Example

DICOM Sync

Choose your destiny
Lua vs C++



“I have a dream”

That anybody can write Orthanc plugins.
That no matter teams' expertises,
projects will not be hindered.

Enter jOrthanc
aka Orthanc Java Framework

So now we're able to code this:

```
@RestController
@RequestMapping( path = "/series" )
public class SeriesController {

    // ...

    @GetMapping( path =("/{seriesInstanceId}/count", produces = "text/plain" )
    public String getInstanceCount(
        @PathVariable( "seriesInstanceId" ) String seriesInstanceId
    )
        throws
            ObjectNotFoundException
    {
        log.info( String.format( "Counting series for %s", seriesInstanceId ) );
        Series series = seriesService.get( seriesInstanceId );
        Collection< String > instanceIds = series.getInstanceIds();
        String instanceCount = Integer.toString( instanceIds.size() );
        return instanceCount;
    }

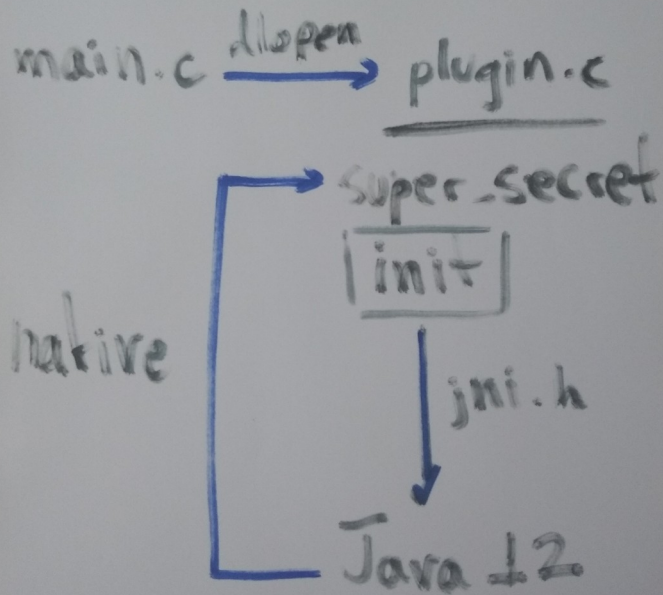
    // ...

}
```

Can we ALT-TAB for a moment?

What just happened?
The nitty-gritty details

jOrthanc: FASE 3



Possibilities

Storage plugins

Index plugins

Use of ORM's frameworks like JPA
etc

Let's not forget the TIOBE index!

The index can be used to check whether your programming skills are still up to date or to make a strategic decision about what programming language should be adopted when starting to build a new software system. The definition of the TIOBE index can be found [here](#).

Dec 2019	Dec 2018	Change	Programming Language	Ratings	Change
1	1		Java	17.253%	+1.32%
2	2		C	16.086%	+1.80%
3	3		Python	10.308%	+1.93%
4	4		C++	6.196%	-1.37%
5	6	▲	C#	4.801%	+1.35%
6	5	▼	Visual Basic .NET	4.743%	-2.38%
7	7		JavaScript	2.090%	-0.97%
8	8		PHP	2.048%	-0.39%
9	9		SQL	1.843%	-0.34%
10	14	▲▲	Swift	1.490%	+0.27%

A dark, atmospheric scene of a coastal town. In the foreground, a stone wall or balcony runs across the bottom. To the right, a tall, ornate stone tower with a domed top stands prominently. In the middle ground, a body of water is visible with a small boat. Two figures are standing on a platform near the water. The background features jagged, rocky mountains under a dark sky. The overall tone is somber and mysterious.

The bigger picture



Freedom
Community

Questions?

Thank you! Merci!

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