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
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:

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

    // ...

    @GetMapping( path = "/{seriesInstanceUid}/count", produces = "text/plain" )
    public String getInstanceCount(
        @PathVariable( "seriesInstanceUid" ) String seriesInstanceUid
    )
        throws ObjectNotFoundException {
        log.info( String.format( "Counting series for %s", seriesInstanceUid ) );
        Series series = seriesService.get( seriesInstanceUid );
        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

main.c $\rightarrow$ plugin.c

$\rightarrow$ super_secret

$\rightarrow$ init

native

$\rightarrow$ jni.h

$\rightarrow$ Java 1.2
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](https://www.tiobe.com/tiobe-index/).

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The bigger picture
Questions?
Thank you! Merci!

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