France Université Numérique

Life in the Avant-garde

Régis Behmo (@regisb)

Open edX Conference, October 12 2015 | Wellesley, MA

France Université Numérique: Life in the Avant-garde

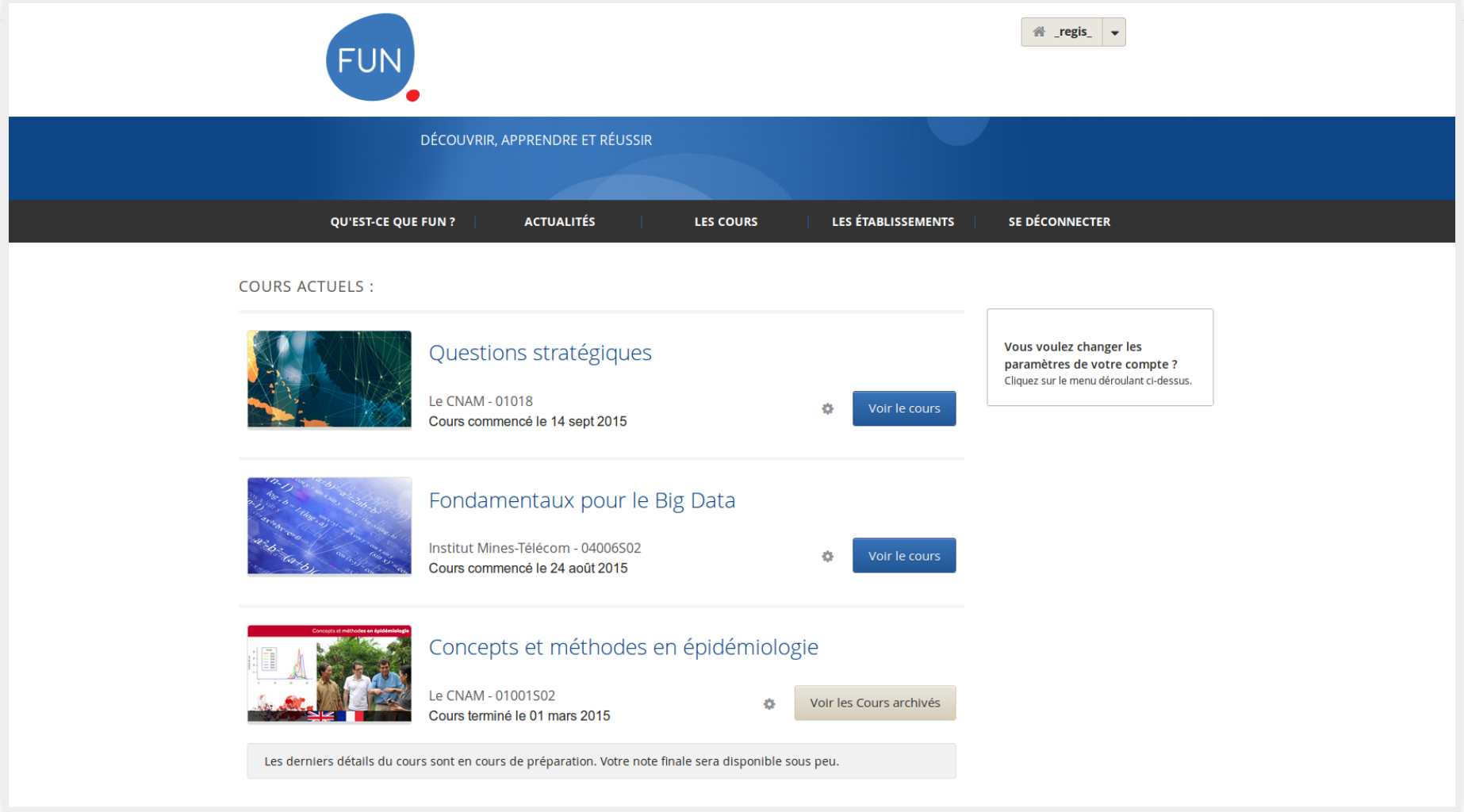
- Integration with Open edX
- Dashboards
- XBlocks
- Issues

France Université Numérique (FUN)

- 193 courses
- 61 universities
- 1M course enrollments
- 420k users from 213 countries

France Université Numérique (FUN)

https://www.france-universite-numerique-mooc.fr/

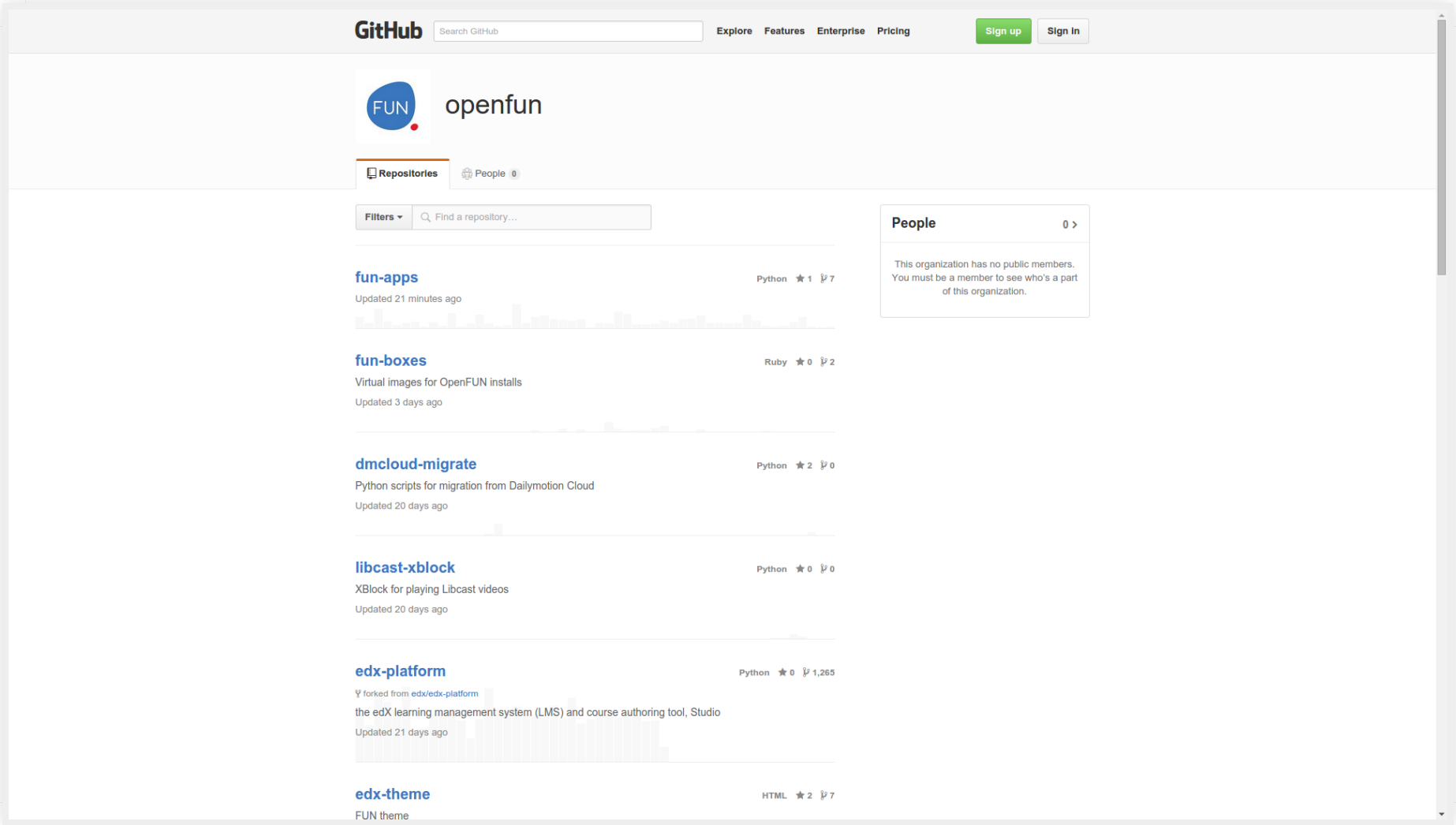


France Université Numérique (FUN)

http://hack.openedx.fr/

France Université Numérique (FUN)

https://github.com/openfun/



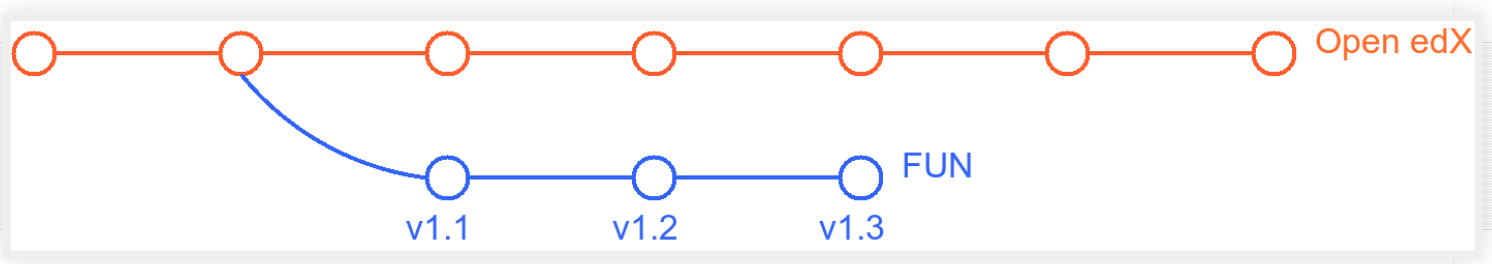
France Université Numérique (FUN)

https://github.com/openfun/

```
$ grep openfun edx-platform/AUTHORS
Régis Behmo <regis.behmo@openfun.fr>       # @regisb
Sylvain Toé <sylvain.toe@openfun.fr>       # @lazybird
Richard Moch <richard.moch@openfun.fr>     # @rmoch
Julien Paillé <julien.paille@openfun.fr>   # @jpaille
```

fork?

Permanent fork

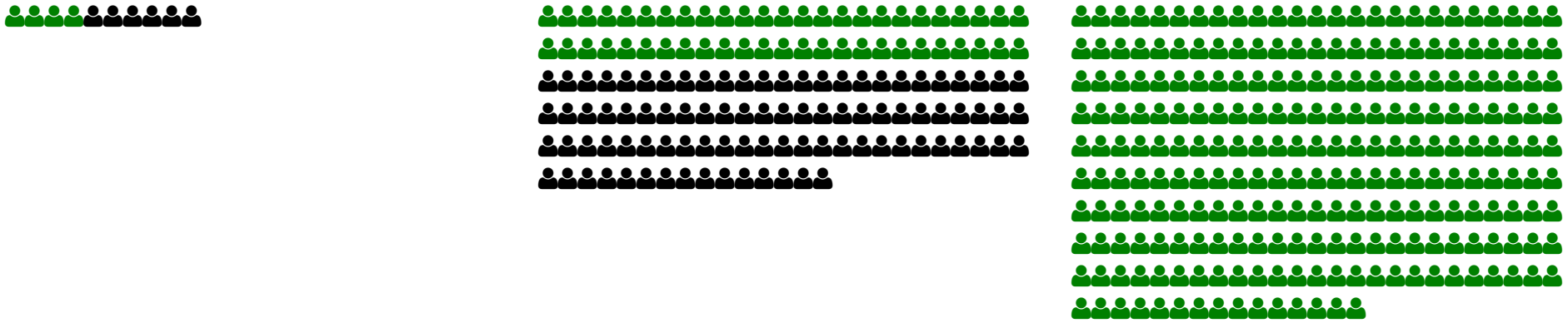


FUN

edX

Open edX contributors

`wc -l edx-platform/AUTHORS`

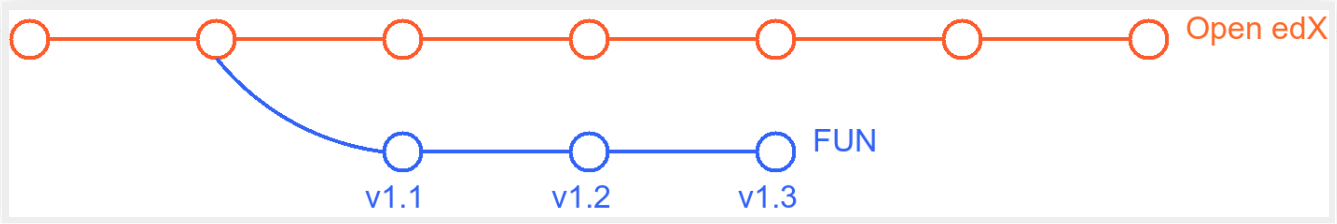


developer

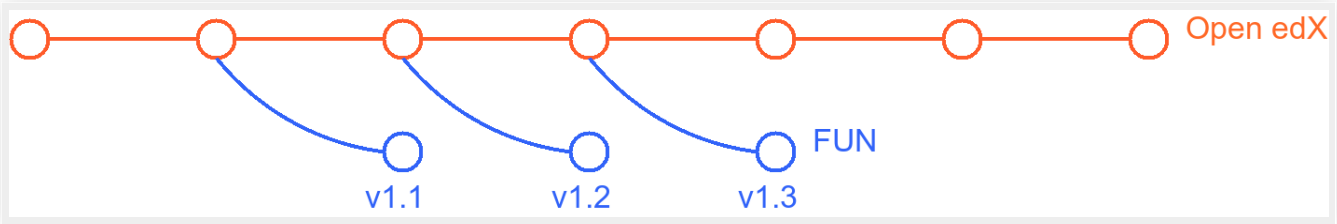
non-developer

fork?

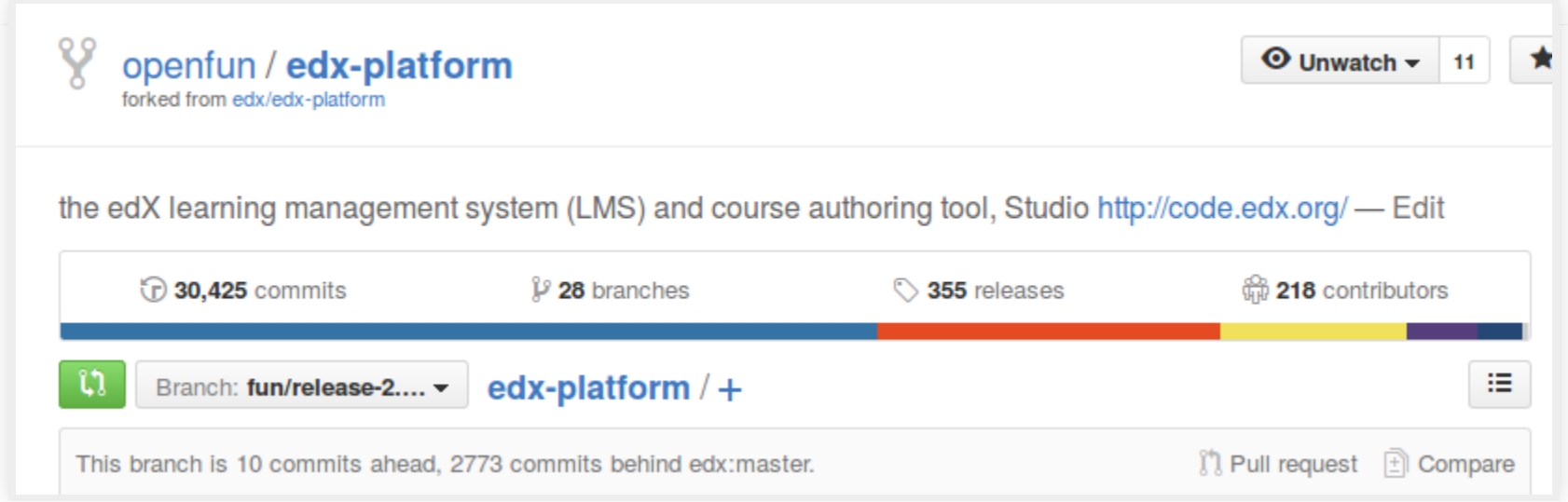
Permanent fork

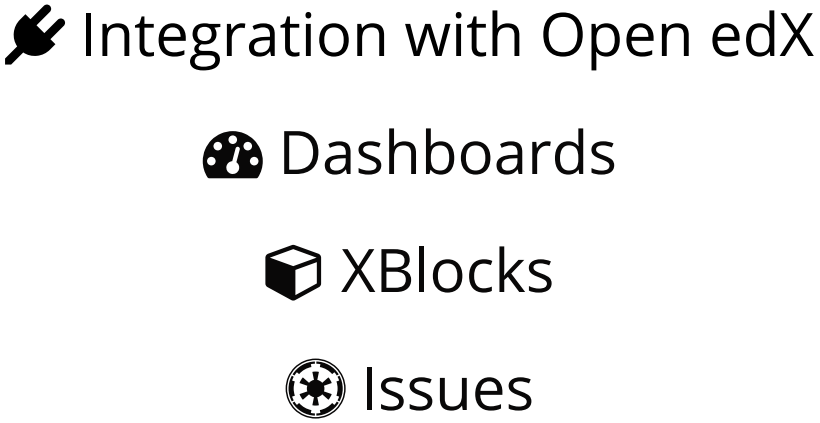


Regularly-updated fork



fork?


openfun / edx-platform
forked from edx/edx-platform
Unwatch
11
the edX learning management system (LMS) and course authoring tool, Studio http://code.edx.org/ — Edit
30,425 commits
28 branches
355 releases
218 contributors
Branch: fun/release-2....
edx-platform / +
This branch is 10 commits ahead, 2773 commits behind edx:master.
Pull request
Compare


Integration with Open edX
Dashboards
XBlocks
Issues

🔌 Upstream integration

```
$ cd edx-platform && git log | grep openfun
    Merge pull request #9590 from openfun/openfun/fix-dropdown-problem-template
    Merge pull request #8725 from openfun/regisb/fix_xblock_class_loading
    Merge pull request #7474 from openfun/rmoch/fix_forum_action_button_issue
    Merge pull request #7997 from openfun/rmoch/i18n_problem_explanation_title
    Merge pull request #7101 from openfun/fun/xblock-authoring-fix-settings-import
    Merge pull request #6560 from openfun/openfun/studio-csrf-error
    Merge pull request #6082 from openfun/edx/translate-enrollment-emails
```

```
$ cd edx-ora2 && git log | grep openfun
    Merge pull request #640 from openfun/edx/multiple-fileupload-backends
    Merge pull request #681 from openfun/openfun/fix-vagrantfile
```

🔌 Plugging FUN → edx-platform

1. `pip install fun-cmd`
2. `fun lms.dev run`
   - `sys.path.append("/edx/app/edxapp/fun-apps/")`
   - `/edx/app/edxapp/fun-apps/fun/envs/lms/dev.py`

🔌 Patching Open edX

Easy	Medium	Hard
Modify settings	Patch code	Patch dependency code
• Patch FUN settings	• Patch edx-platform • Maintain patch	• Patch dependency • Patch edx-platform requirements • Maintain 2 patches

🔌 The FUN devstack

- https://github.com/openfun/fun-boxes
- http://files.alt.openfun.fr/vagrant-images

Integration with Open edX	Backoffice
Dashboards	Course dashboard
XBlocks	Video upload manager
Issues	Kibana dashboard

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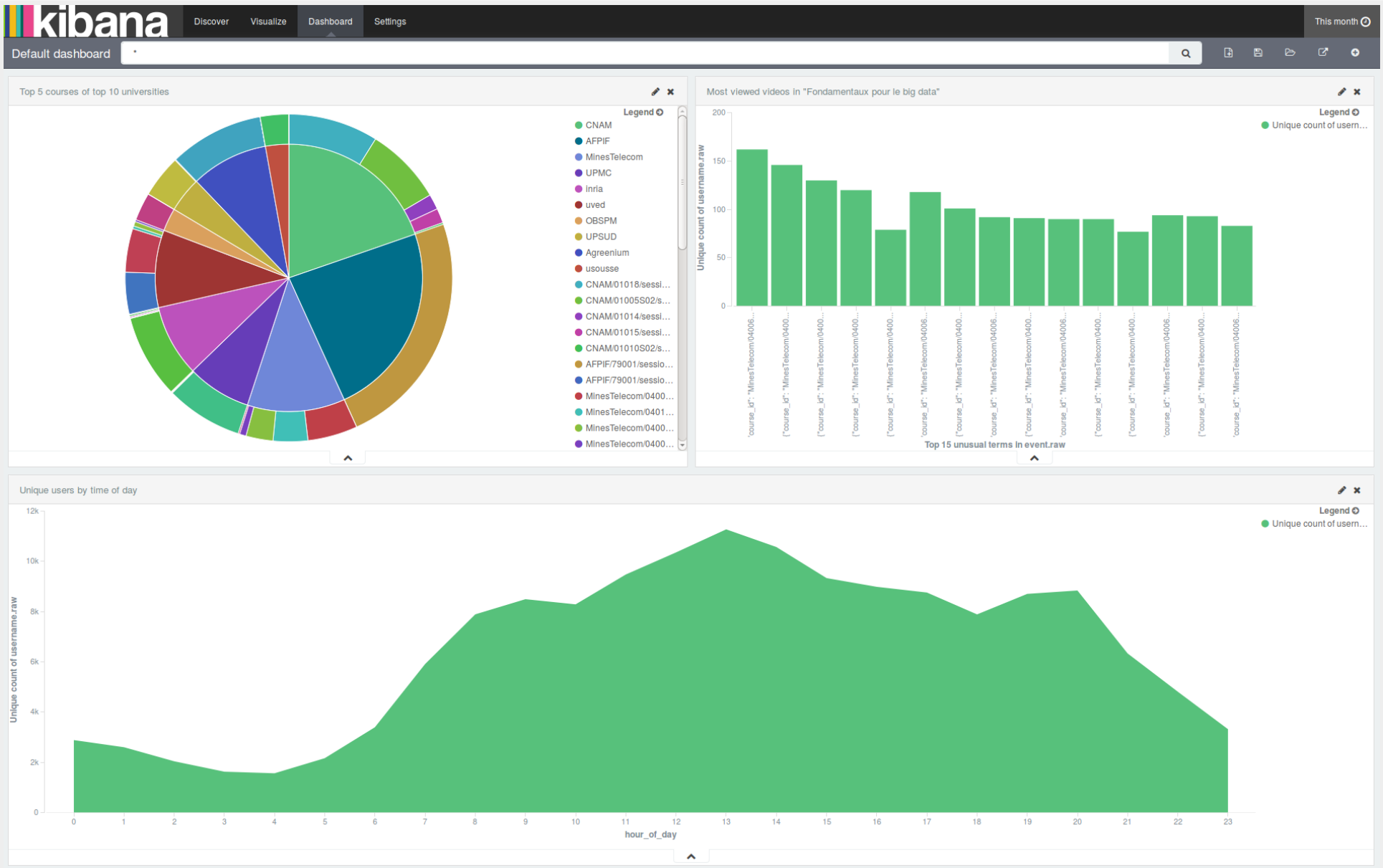


https://github.com/openfun/fun-logstash

Integration with Open edX

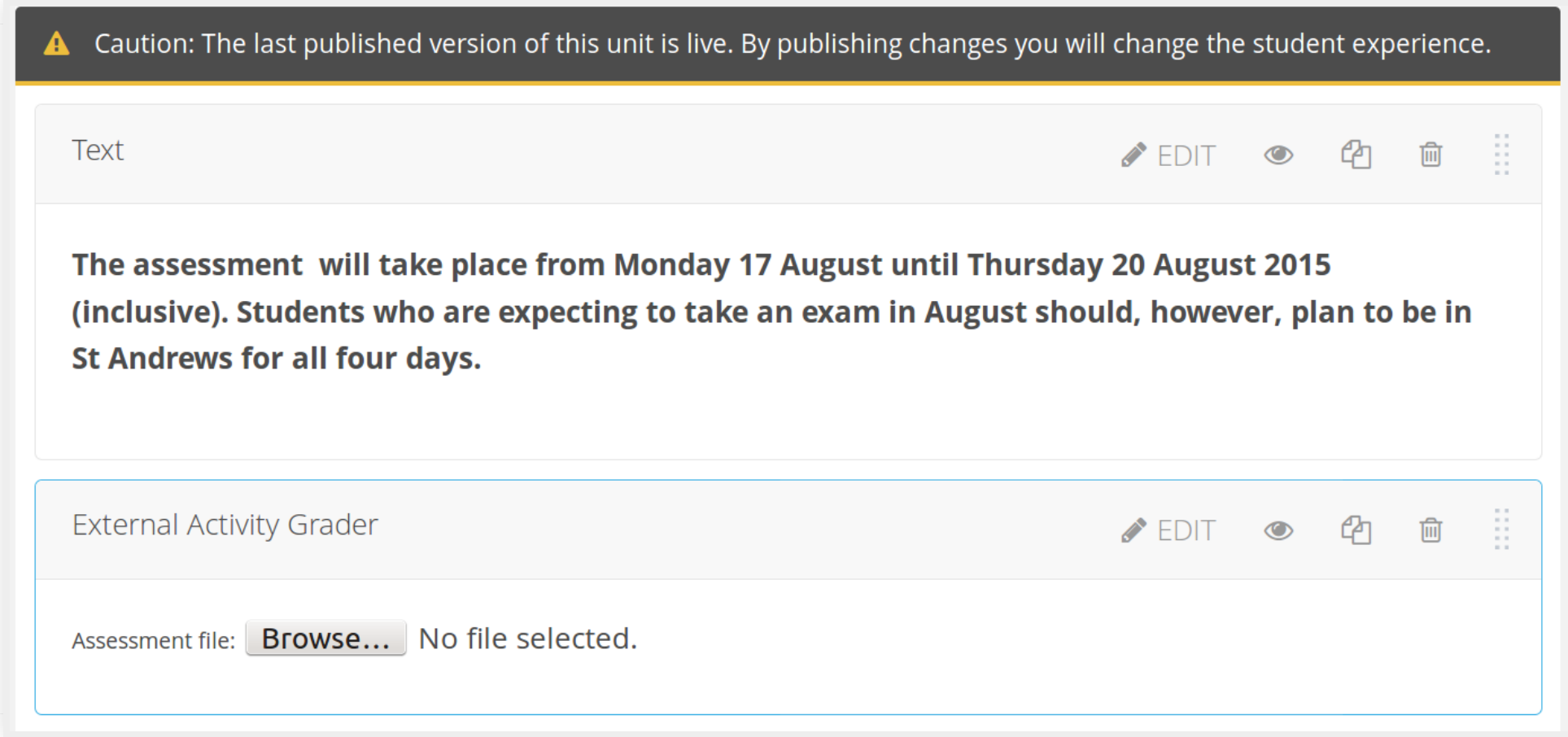
Dashboards

XBlocks

Issues

XBlocks: Graded external assignment

https://github.com/openfun/edx-gea/



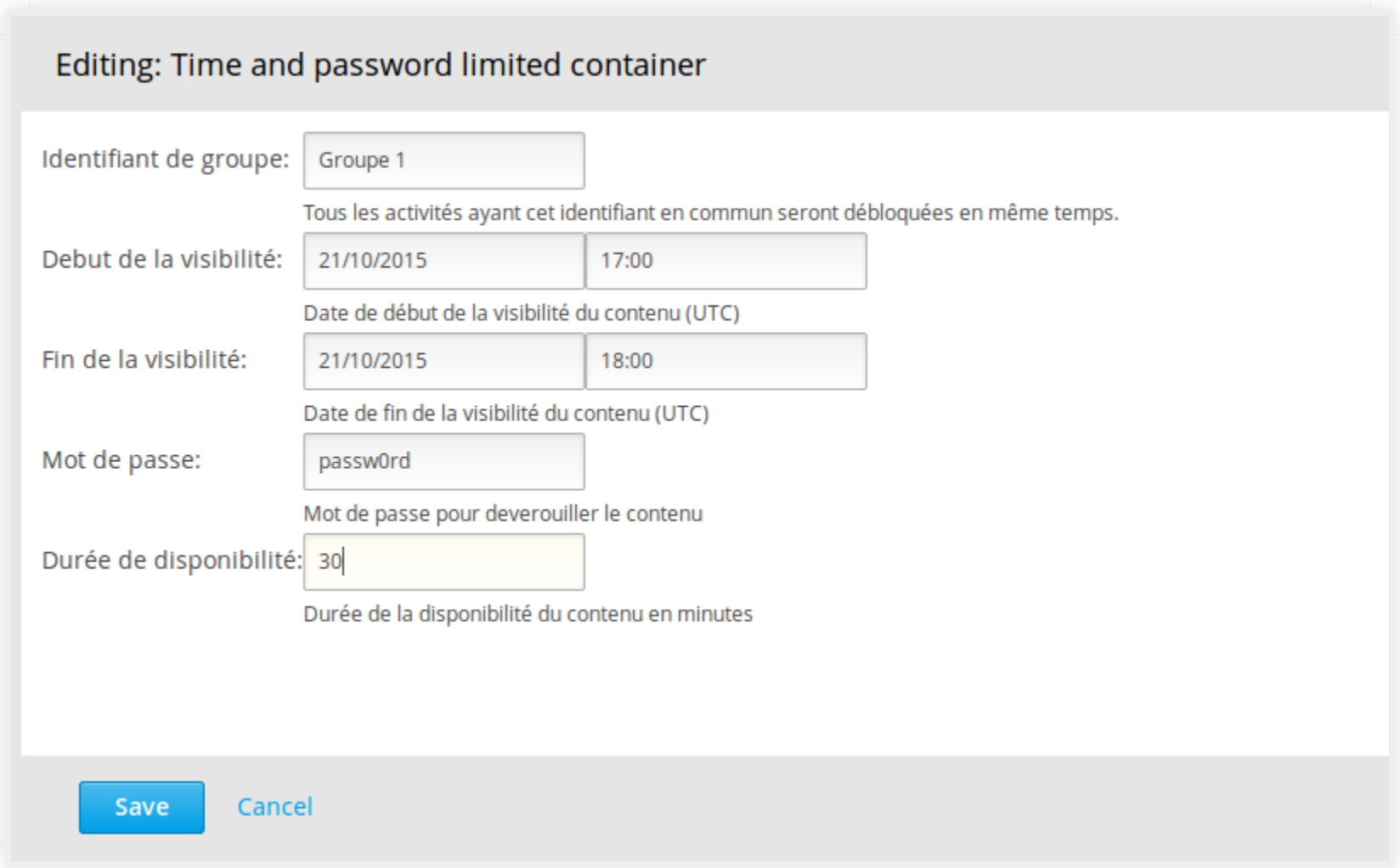
XBlocks: Graded external assignment

https://github.com/openfun/edx-gea/

	A	B	C	D
1	Jean	18	Well done Jean.	
2	Jack	12		
3	Pierre	8	A lot of mistakes, keep studying.	
4				
5				

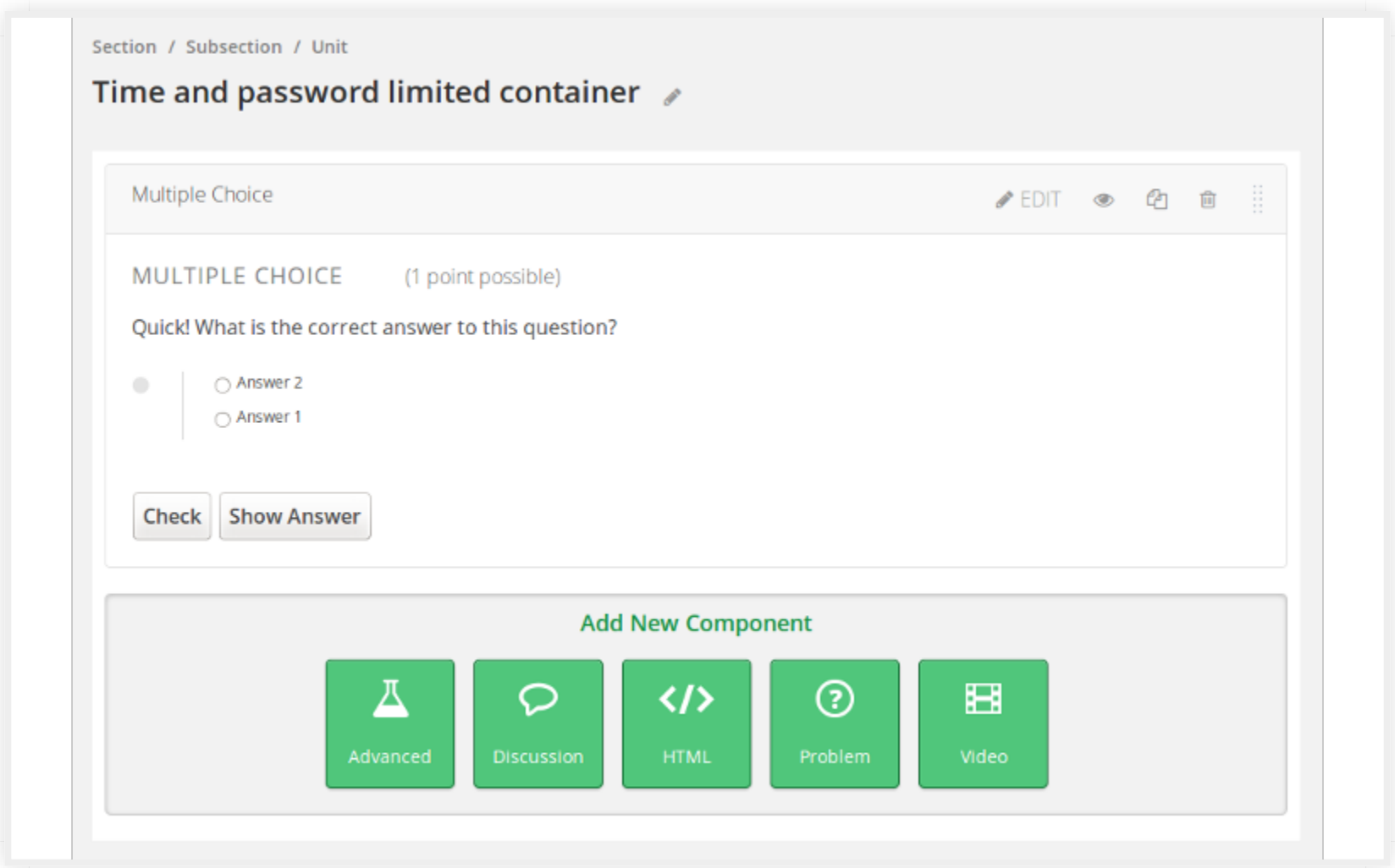
XBlocks: Password-protected, time-limited container

https://github.com/openfun/password-container-xblock/

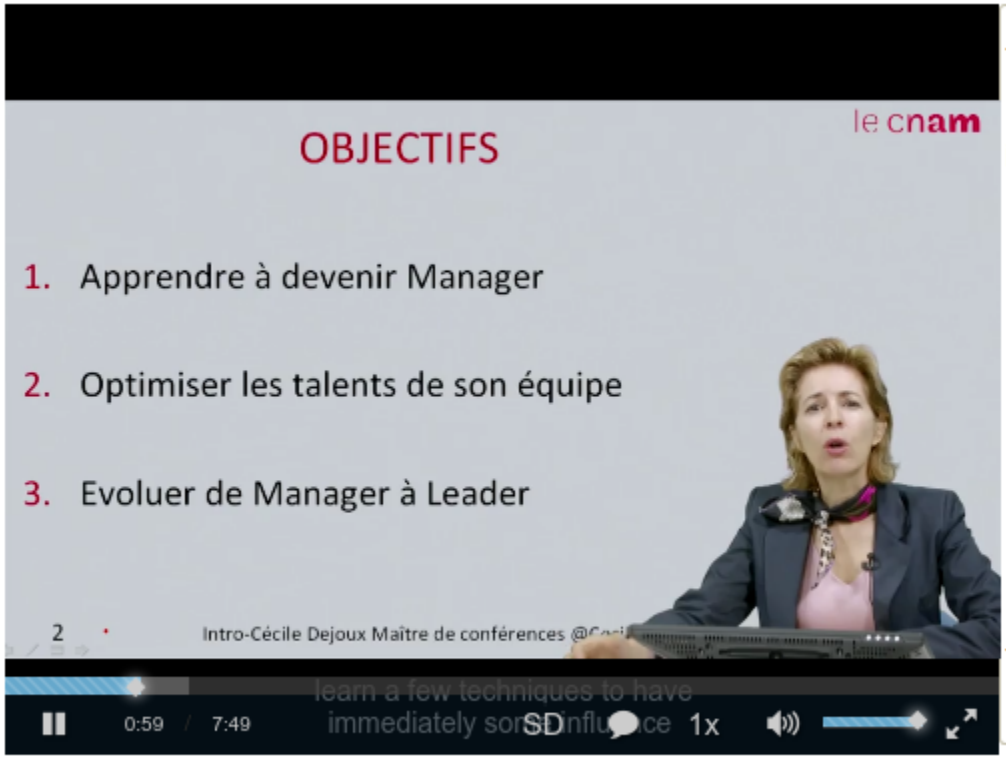


XBlocks: Password-protected, time-limited container

https://github.com/openfun/password-container-xblock/



XBlocks: Videojs player



to avoid,
- learn a few techniques to have immediately some influence
- and leadership on the group.
- This course is also intended for people who already are managers.
- They will be given keys to understand their practice
- in order to understand how they can improve
- their influence on others,
- and understand the motivations of their colleagues.
- Finally, this course is intended for

Télécharger la vidéo : Haute définition (720p) / Standard (512p) / Smartphone (320p)

Integration with Open edX

Dashboards

XBlocks

Issues

Explicit dependencies on Amazon Web Services (AWS)

```
def some_view(request):
    url = get_upload_url()
    return render(request, "some_template.html", {"url": url})
```

Hardcoded

```
def get_upload_url():
    conn = connect_to_s3()
    return conn.generate_url()
```

Setting-dependent

```
def get_upload_url():
    from importlib import import_module
    name = getattr(
        settings, "STORAGE_BACKEND",
        "storage.s3" # default storage
    )
    backend = import_module(name).Backend()
    return backend.generate_url()
```

Extended course properties

```
class CourseFields(object):
    advanced_modules = List(...)
    foo = List(...)
    bar = String(...)
    ...

    # Course-specific properties
    advanced_properties = Dict(...)
```

```
class Course(django.models.Model):
    course_id = django.models.CharField(...)
    custom_property = django.models.CharField(...)
    ...
```

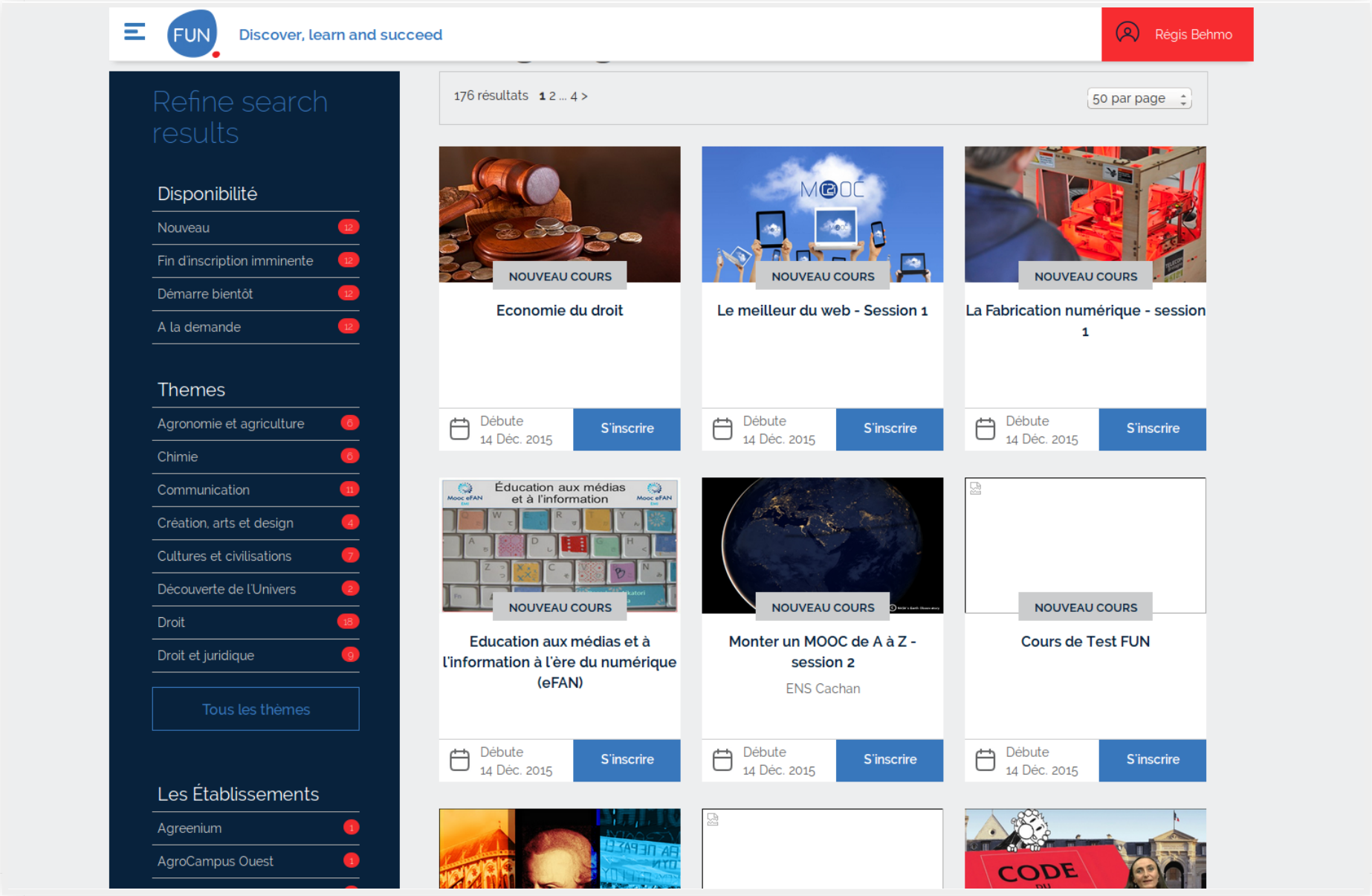
Microsites

- No microsite in studio
- Course creation
- User subscription

Microsites for white label?

What's next?

Themes, course filtering, course search...



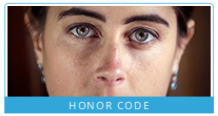
What's next?

Hackathon!

edX

regisb

MY COURSES



The Science of Everyday Thinking

UQx - Think101x
Started - Aug 11, 2015

View Course

Challenge Yourself! Take this course as an ID-verified student.

You can still sign up for an ID verified Certificate of Achievement for this course. If you plan to complete the whole course, it is a great way to recognize your achievement. Learn more about the verified Certificate of Achievement.

Upgrade to Verified Track

Introduction to Computer Science

HarvardX - CS50x3
Started - 2015

View Course

Challenge Yourself! Take this course as an ID-verified student.

You can still sign up for an ID verified Certificate of Achievement for this course. If you plan to complete the whole course, it is a great way to recognize your achievement. Learn more about the verified Certificate of Achievement.

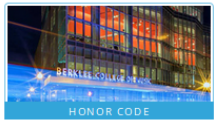
Upgrade to Verified Track

Making Sense of Climate Science Denial

UQx - Denial101x
Ended - Jun 16, 2015

View Archived Course

Your final grade: **0%**. Grade required for a Certificate: **70%**.



Introduction to the Music Business

BerkleeX - MB110x
Ended - Jun 03, 2015

View Archived Course

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Get in touch

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Developer

julien@openfun.fr

Product owner

laurent@openfun.fr

Slides available at
https://github.com/regisb/openedx-conference-2015