CHAPTER 1

Travis and Bintray for your Pillar projects

We will use bintray to store the latest pdf produced by travis and we will use github to store the released pdf.

1.1 Storing work in progress in bintray

Create an account in bintray

You should have an account on bintray https://bintray.com/ You may link it or not to your github account.

Obtain an encoded API key for BinTray

In your bintray profile get your API key (copy it to your copy paste buffer). This is key is important because without it you will not be able to make travis use bintray. To be used in travis it should be encrypted.

In your machine in the github folder

```
> travis login --auto
> travis encrypt 'Your API Key from Bintray'
```

You will use the resulting key in your .travis.yml configuration file.

Add and edit the .travis.yml file

Here is the .travis.yml of the Learning oo programming project:

```
sudo: required
services:
- docker

before_install:
- docker pull dpollet/texlive:pillar

script:
- docker run --tty --rm --volume $PWD:/work dpollet/texlive:pillar
    make spiralbook

deploy:
- provider: bintray
  file: .bintray.json
  on:
    repo: SquareBracketAssociates/LearningOOPWithPharo
  skip_cleanup: true
  user: ducasse
  key:
    secure:
    DLT5e+3+U3jaooTLVN6JPcavMS+5XzFwNIfsK7QLYefzOZfBR8lt2vHtX2OxcdyKNfuzh0EaIDUR9a6
```

Some explanations

Let us explain some parts:

```
sudo: required
services:
- docker

before_install:
- docker pull dpollet/texlive:pillar

script:
- docker run --tty --rm --volume $PWD:/work dpollet/texlive:pillar
    make spiralbook
```

Our script uses the docker container containing an installed version of texlive and pillar. The script invokes make to build the book. `make spiralbook` builds the book in spiral lulu format.

Then the deploy section indicates to use the file .bintray. as a specification to store the result of the build to the bintray repository for the account ducasse and this is there that you should paste your encrypted key.

```
deploy:
- provider: bintray
  file: .bintray.json
  on:
    repo: SquareBracketAssociates/LearningOOPWithPharo
```

```
  skip_cleanup: true
  user: ducasse
  key:
      secure:
    DLT5e+3+U3jaooTLVN6JPcavMS+5XzFwNIfsK7QLYefzOZfBR8lt2vHtX2OxcdyKNfuzh0EaIDUR9a6
```

Note that the `skyp_cleanup: true` is a way to circumvent some strange behavior.

Add and Edit the .bintray.json file

Now we should a .bintray.json configuration file.

Here is the one of the https://github.com/SquareBracketAssociates/LearningOOPWithPharo

```
more .bintray.json
```

```
{
    "package": {
        "name": "Loop",
        "repo": "wip",
        "subject": "squarebracketassociates",
        "desc": "Learning OOP with Pharo",
        "licenses": ["MIT"],
        "website_url":
    "https://github.com/SquareBracketAssociates/LearningOOPWithPharo",
        "issue_tracker_url":
    "https://github.com/SquareBracketAssociates/LearningOOPWithPharo/issues",
        "vcs_url":
    "https://github.com/SquareBracketAssociates/LearningOOPWithPharo.git",
        "labels": ["work-in-progress"]
    },

    "version": {
        "name": "latest",
        "desc": "Latest successful build"
    },

    "files": [
        {
            "includePattern": "build/(learningoop).pdf",
            "uploadPattern": "$1-wip.pdf",
            "matrixParams": { "override": 1 }
        }
    ],
    "publish": true
}
```

The most important is probably the files part. It lets you specify the files that you select in the build and how the files can be renamed when uploaded to

bintray. $1 denotes the part in ( ).

1.2 For Github integration

For a given checkout you should generate the associated token. In your github repository you should mention to travis that you will be interested by sotring releases files in the github release tab.

```
> travis setup releases
```

Here is the full .travis.yml with the github integration

```
sudo: required
services:
- docker

before_install:
- docker pull dpollet/texlive:pillar

script:
- docker run --tty --rm --volume $PWD:/work dpollet/texlive:pillar
    make spiralbook

deploy:
- provider: bintray
  file: .bintray.json
  on:
    repo: SquareBracketAssociates/LearningOOPWithPharo
  skip_cleanup: true
  user: ducasse
  key:
    secure:
    ThnjhD8OMRlL5NmsK8dGQR4mpzXG2Kj2NeWHA5oHCO4YTaK0fKLPHF8YcjlyQorESX6+Z/Q0ihtTq1/
- provider: releases
  file: build/learningoop.spiral.pdf
  on:
    tags: true
  skip_cleanup: true
  api_key:
    secure:
    pRfu3fr35BzqQDi1ul0SubPSwO8zcyIidqLRZPz3XIrH4qoy1Zgnq785dmB7ziNQqH+VJyh7askSFY3
```

The expression file: `build/learningoop.pdf` identifies the file produced by `make`. Pay attention because spiralbook produces learningoop.spiral.pdf

The expression

```
  on:
    tags: true
```

expresses the fact that the script will only trigger for

Note: We should add how we generated the key. It is not your bintray key. Probably travis encrypt your github token key.

1.3 How to add a new released file in your git hub account

To release a pdf that will be stored on github in the booklet repository, we should create an annotated tag.

```
git tag -a v1.0-Pharo50
git push --tags
```