BY-SYSTEMS

ECAM
BRUSSELS ENGINEERING SCHOOL

Présentation WEEK 1

Van Olffen Victor
Maillard Corentin
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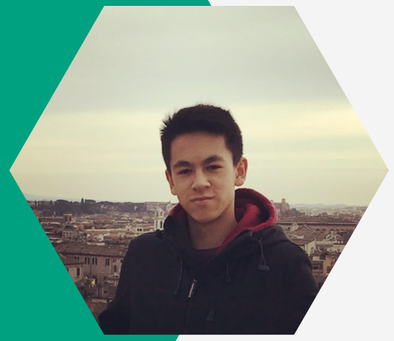
Notre équipe

N'hésitez pas à nous contacter !



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Programme

- IDE
- Extensions
- GitHub
- SSH
- GPG
- Sphinx-doc
- HTML
- LaTeX PDF
- Confluence

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IDE

Visual Studio Code

Système d'exploitation : Windows 10/11

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Extensions

GitLens

reStructuredText

Live Server

Rainbow CSV

Draw.io Integration

Commitizen

Python

Excel Viewer

Programme

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GitHub

Création du dépôt

https://github.com/

Configuration

git config --global --edit

Commit

git commit -S -m "Message"

- Commitizen
- Semantic Versioning

Création d'un dépôt

Sur GitHub :

```
echo "# By-Systems" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:VictorVanO/By-Systems.git
git push -u origin main
```

Configuration

```
$ git config --global --edit
```

Commitizen

```
git commit -S -m "type(Scope): Short" -m "Long" -m "Breaking Point " -m "Issues Close"
```

Exemple :

Semantic Versioning

	Major, minor, Patch
	1 . 0 . 0
Patch	1 . 0 . 1
minor	1 . 1 . 0
Major	2 . 0 . 0

Exemple :

- Major : Changer l'API (casse l'API précédente => pas de retour possible)
- minor : Ajout de fonction sans changer la structure (retour ok)
- Patch : correction de bug

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SSH-Keygen

- **Ouvrir un git bash**

```
ssh-keygen -t ed25519 -C -b 4096 "your_email@example.com"
```

```
> Enter passphrase (empty for no passphrase): [Type a passphrase]
> Enter same passphrase again: [Type passphrase again]
```

Source : https://docs.github.com/fr/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent

SSH-Keygen

- Ajout de la clé à ssh-agent

```
# start the ssh-agent in the background
$ eval "$(ssh-agent -s)"
> Agent pid 59566
```

```
$ ssh-add ~/.ssh/id_ed25519
```

```
ssh-add -l
```

```
$ clip < ~/.ssh/id_ed25519.pub
```

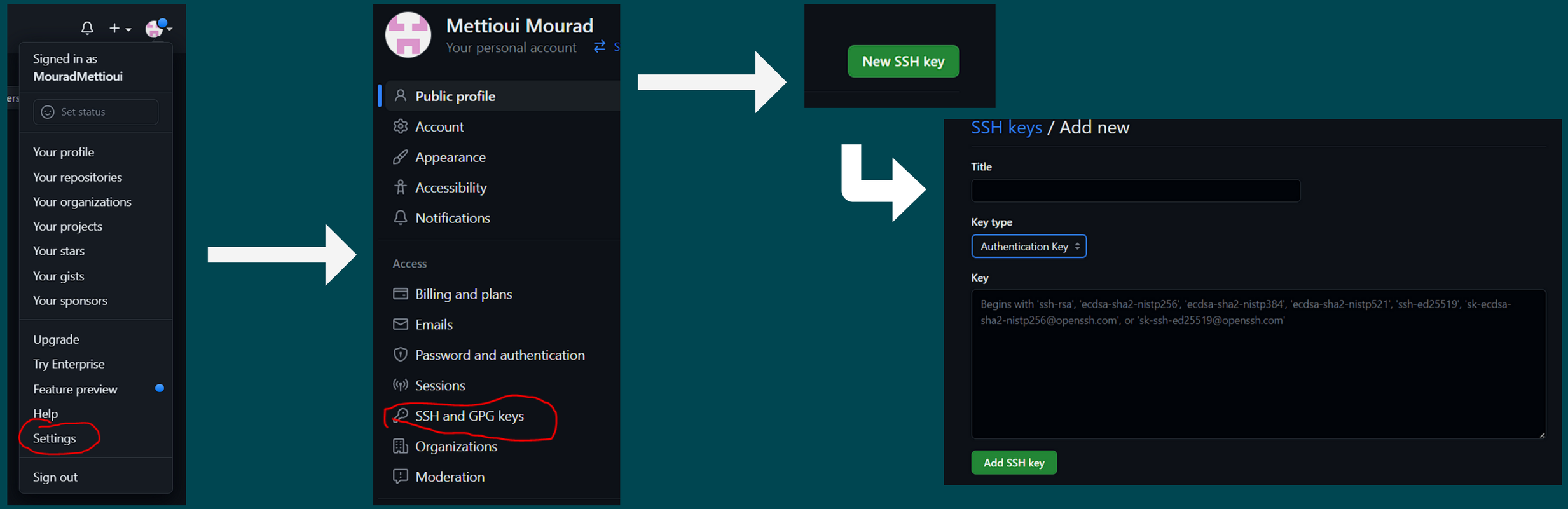
ET

ou `~/.bashrc` dans l'interpréteur de commandes Git :

```
env=~/.ssh/agent.env

agent_load_env () { test -f "$env" && . "$env" >| /dev/null ; }

agent_start () {
    (umask 077; ssh-agent >| "$env")
    . "$env" >| /dev/null ; }

agent_load_env

# agent_run_state: 0=agent running w/ key; 1=agent w/o key; 2=agent not running
agent_run_state=$(ssh-add -l >| /dev/null 2>&1; echo $?)

if [ ! "$SSH_AUTH_SOCK" ] || [ $agent_run_state = 2 ]; then
    agent_start
    ssh-add
elif [ "$SSH_AUTH_SOCK" ] && [ $agent_run_state = 1 ]; then
    ssh-add
fi

unset env
```

SSH-Keygen

- Ajouter la clé à votre compte GitHub



Source : https://docs.github.com/fr/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent

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GPG

- Ouvrir un git bash

```
$ gpg --full-generate-key
gpg (GnuPG) 2.2.29-unknown; Copyright (C) 2021 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Please select what kind of key you want:
   (1) RSA and RSA (default)
   (2) DSA and Elgamal
   (3) DSA (sign only)
   (4) RSA (sign only)
  (14) Existing key from card
Your selection?
```

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG

```
Your selection? 1
RSA keys may be between 1024 and 4096 bits long.
What keysize do you want? (3072) 4096
Requested keysize is 4096 bits
Please specify how long the key should be valid.
         0 = key does not expire
      <n>  = key expires in n days
      <n>w = key expires in n weeks
      <n>m = key expires in n months
      <n>y = key expires in n years
Key is valid for? (0)
```

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG

```
GnuPG needs to construct a user ID to identify your key.

Real name:
Email address:
Comment:
You selected this USER-ID:
```

- Entrer un passphrase

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG

```
$ gpg --list-secret-keys --keyid-format=long
/c/Users/coren/.gnupg/pubring.kbx
------------------------------
sec   rsa4096/6177BE00E84B74D1 2023-04-03 [SC]
      2A02383F3EDDA2A7465C567F6177BE00E84B74D1
uid                 [ultimate] Corentin (GITHUB KEY - Corentin.Maillard@gmail.com) <Corentin.Maillard@gmail.com>
ssb   rsa4096/8801E43DFB808F0C 2023-04-03 [E]
```

- Récupérer l'ID de la key

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG

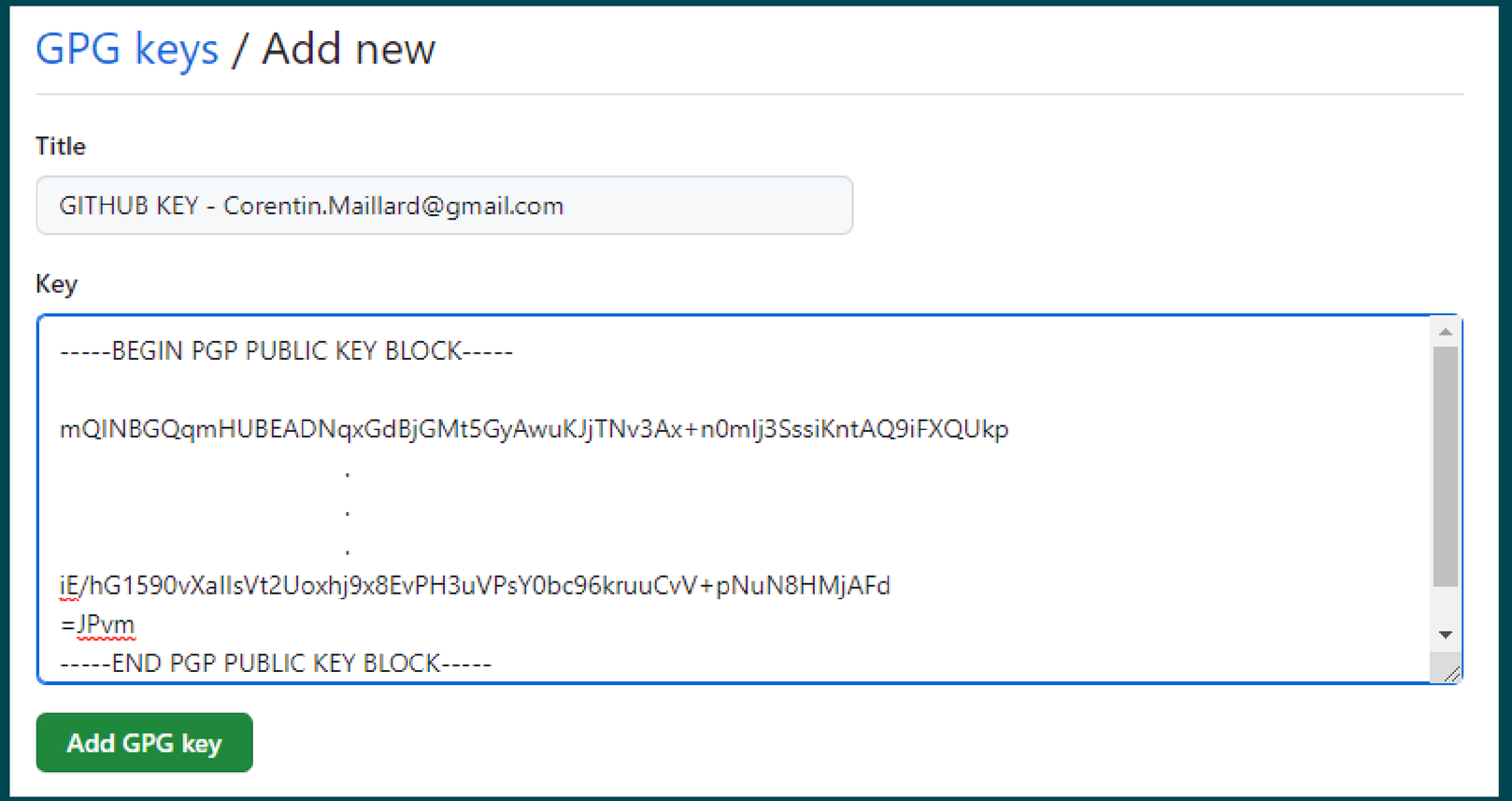
```
$ gpg --armor --export 6177BE00E84B74D1
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQINBGQqmHUBEADNqxGdBjGMt5GyAwuKJjTNv3Ax+n0mlj3SssiKntAQ9iFXQUkp
                                .
                                .
                                .
iE/hG1590vXaIIsVt2Uoxhj9x8EvPH3uVPsY0bc96kruuCvV+pNuN8HMjAFd
=JPvm
-----END PGP PUBLIC KEY BLOCK-----
```

- Récupérer la key

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG



Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

GPG

Utilitée?

- Permet de faire des commits signé avec la commande :

```
$ git commit -S -m "Message"
```

Sur GitHub

Source : https://docs.github.com/fr/authentication/managing-commit-signature-verification/generating-a-new-gpg-key

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Sphinx-doc

Générateur python de documentation

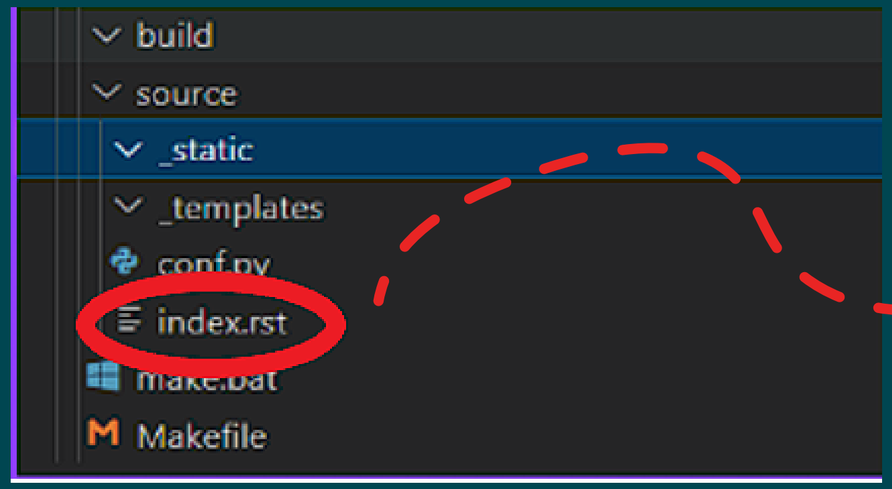
Initialisation

```
$ sphinx-quickstart
```

- Séparer les répertoires "source" et "build"
- Remplir le nom du projet, de l'auteur et la version du projet
- Indiquer la langue du projet

Initialisation

- Structure d'origine




```
.. try documentation master file, created by
   sphinx-quickstart on Thu Apr  6 22:23:21 2023.
   You can adapt this file completely to your liking, but it should at least
   contain the root `toctree` directive.

Welcome to try's documentation!
===============================

.. toctree::
   :maxdepth: 2
   :caption: Contents:



Indices and tables
==================

* :ref:`genindex`
* :ref:`modindex`
* :ref:`search`
```

Initialisation

- Formats disponibles

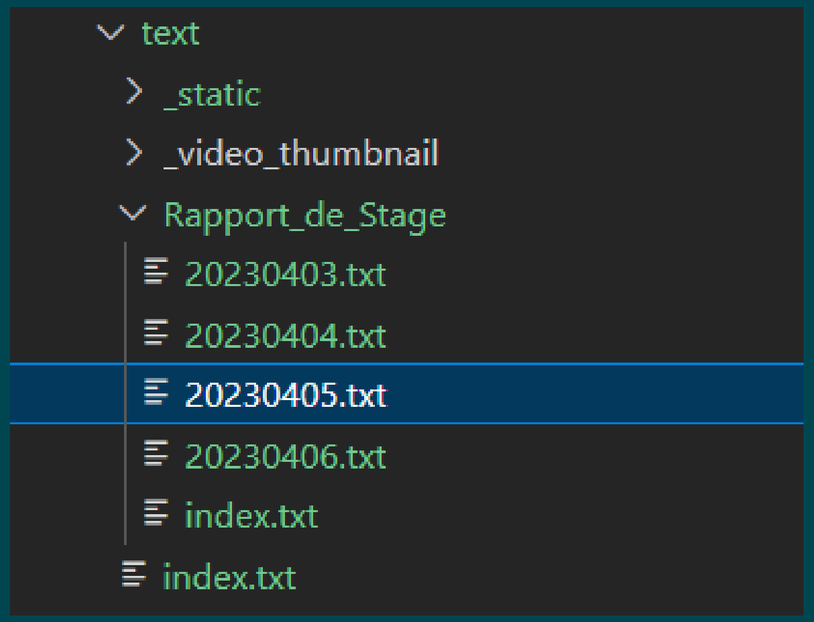
```
.\make.bat
```

```
html        to make standalone HTML files
dirhtml     to make HTML files named index.html in directories
singlehtml  to make a single large HTML file
pickle      to make pickle files
json        to make JSON files
htmlhelp    to make HTML files and an HTML help project
qthelp      to make HTML files and a qthelp project
devhelp     to make HTML files and a Devhelp project
epub        to make an epub
latex       to make LaTeX files, you can set PAPER=a4 or PAPER=letter
text        to make text files
man         to make manual pages
texinfo     to make Texinfo files
gettext     to make PO message catalogs
changes     to make an overview of all changed/added/deprecated items
xml         to make Docutils-native XML files
pseudoxml   to make pseudoxml-XML files for display purposes
linkcheck   to check all external links for integrity
doctest     to run all doctests embedded in the documentation (if enabled)
coverage    to run coverage check of the documentation (if enabled)
clean       to remove everything in the build directory
```

Initialisation

- Format texte

```
.\make.bat text
```




```
Mercredi 05/04/2023
*******************


uml
===

extensions: sphinxcontrib.plantuml même action que pour les autres
jour

lien pour savoir comment afficher des diagrammes use case d'activité
https://plantuml.com/

dans le fichier contenant, voici un exmple de ce qui peut s'y trouver:

    ,------.  ,----.  ,------------.  ,-----.  ,------.
  ,--------. |Hello!| |user|  |use PlantUML|  |user1|  |Hello!|
  |use user| |------|--|----|--|------------|  |-----|--|------|
  |--------| `------'  `----'  `------------'  `-----'  `-|----'
  `--------'

ajouter dans conf.py:

    # -- Options for plantuml output ----------------------------------------------
    #
    plantuml = 'java -jar ../_static/librairies/plantuml-1.2023.5.jar'
    plantuml_output_format = 'png'
    plantuml_latex_output_format = 'png'


Arborescence
============

tree /f  > arborescence.txt afin de créer un fichier avec
l'arborescence du sphinx doc /f pour montrer les fichiers internes aux
dossiers
```

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Formats d'export

HTML

```
.\make.bat html
```

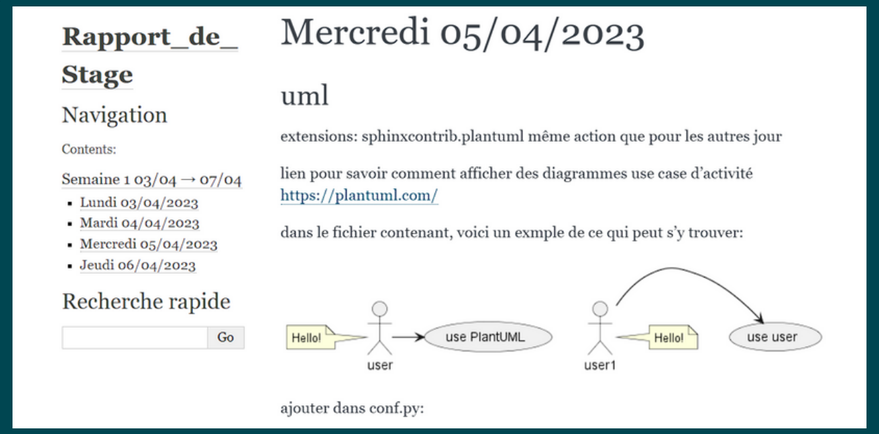
- Télécharger l'extension

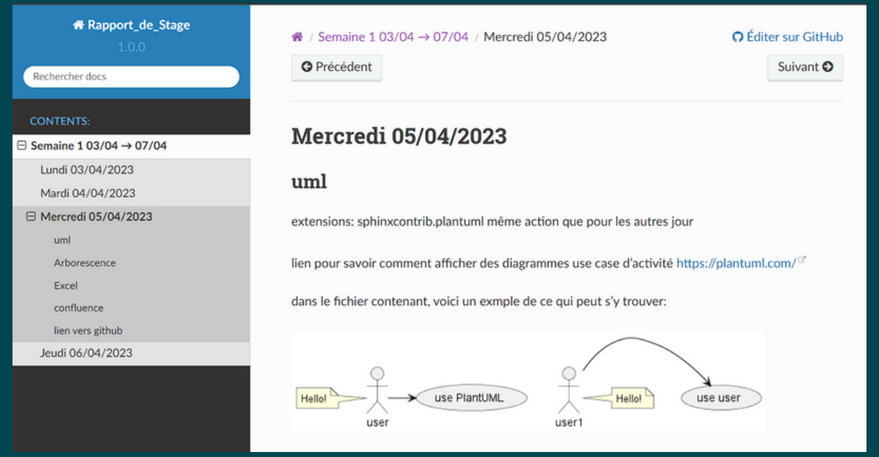
```
pip install sphinx_rtd_theme
```

```
extensions = ['sphinx_rtd_theme',
```

```
html_theme = 'sphinx_rtd_theme'
html_static_path = ['_static']

# CSS customization
def setup(app): app.add_css_file('css/custom.css')
```

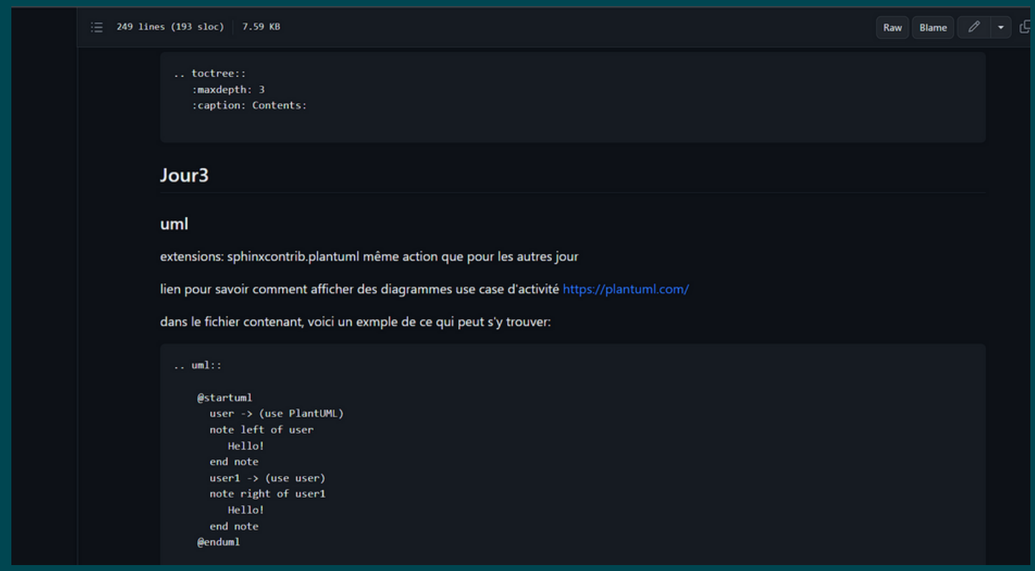




HTML

- Lien vers Git Hub

```
html_context = {
    "display_github": True, # Integrate Gitlab
    'github_host': 'github.com',
    "github_user": "MouradMettioui", # Username
    "github_repo": "sphinx-doc", # Repo name
    "github_version": "main/", # Version
    "conf_py_path": "source/", # Path in the ch
    "current_version": release, # tell the them
    "version": release,
}
```



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LaTeX

- Générer des pdf
- Nécessite :
  - latexmk, téléchargeable sur MiKTeX
  - Strawberry Perl

```
.\make.bat latexpdf
```

LaTeX

- Dans conf.py :

```
# -- Options for Latex output -------------------------------------------

latex_elements = {
    # remove empty pages
    'extraclassoptions': 'openany,oneside',
    # custom title
    'maketitle': r'''
\begin{titlepage}
    \vspace*{\stretch{1.2}}
    \sphinxlogo
    \vspace*{\stretch{1.0}}
    \begin{center}
        \large Provided by Sphinx Confluence Builder Contributors
        \par
        \DTMsetdatestyle{iso}
        \DTMtoday
        \par
        ''' + release + r'''
    \end{center}
    \vspace*{\stretch{1.0}}
\end{titlepage}
    ''',
    # iso datetime support
    # disable hyphenatation
    'preamble': r'''
        \usepackage{datetime2}
        \usepackage[none]{hyphenat}
    ''',
}
```

Source : https://github.com/sphinx-contrib/confluencebuilder/blob/main/doc/conf.py

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Confluence

But ?

- Mettre à jour la page confluence grâce à Sphinx-doc
- Choisir la page dans l'espace confluence

Confluence

- Requirements

```
sphinxcontrib-confluencebuilder
```

- Extensions

```
'sphinxcontrib.confluencebuilder',
```

Confluence

Option dans conf.py

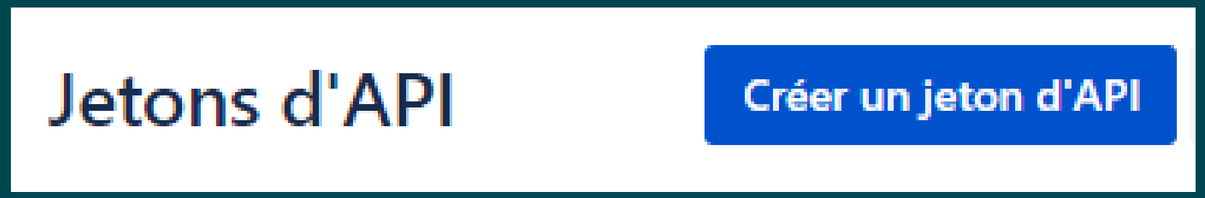
- Space key
- Parent page and id
- URL
- User
- pass (= API token)

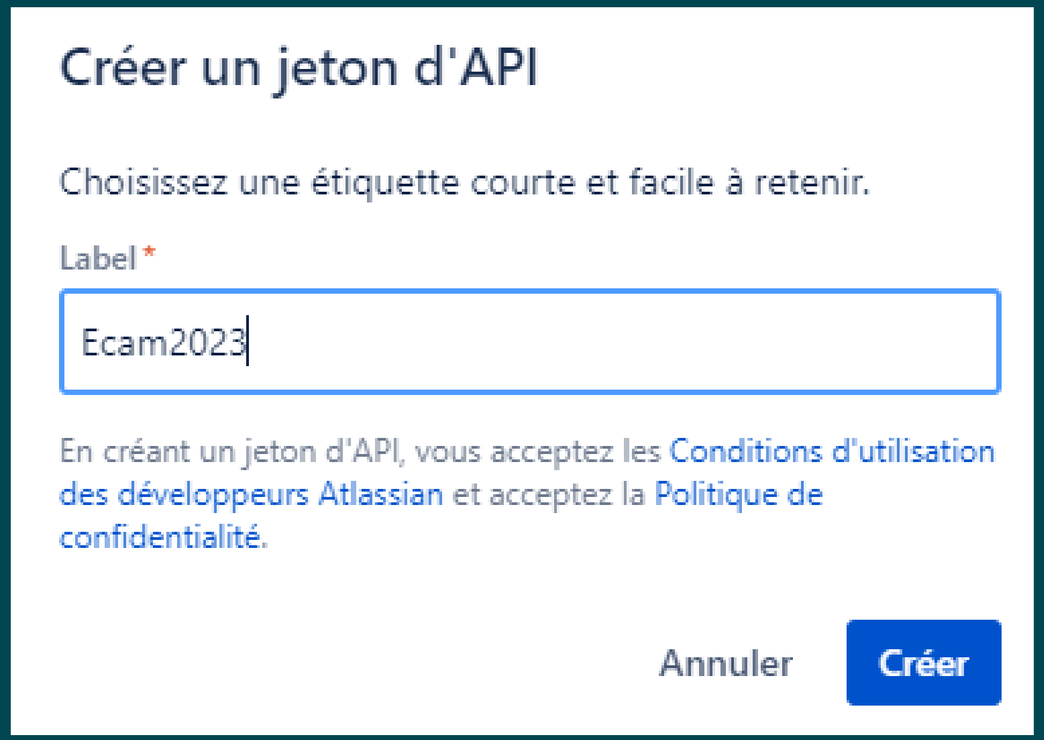
```
confluence_watch = True
confluence_publish_onlynew = False
confluence_page_generation_notice = True
confluence_cleanup_from_root = False
```

```
# --- Options for CONFLUENCE output ------------------------------------------------
# https://sphinxcontrib-confluencebuilder.readthedocs.io/en/stable/configuration/
confluence_publish = True
confluence_space_key = 'GITHUB'
confluence_parent_page = 'Projet1'
confluence_parent_page_id_check = '524437'
# (for Confluence Cloud)
confluence_server_url = 'https://corentinmaillard.atlassian.net/wiki/'
confluence_server_user = 'Corentin.Maillard@gmail.com'
confluence_server_pass = 'ATATT3xFfGF0MPbVpMzsbLx4NIMJfW-eka6cYykg-cH6eWCJkDmr4bWzgoYoHe2U
confluence_ask_password = False
confluence_page_hierarchy = True
confluence_use_index = True
confluence_add_secnumbers = True      You, yesterday • add shpinx doc
confluence_include_search = True
confluence_prev_next_buttons_location = 'top'
confluence_global_labels = [
    'GITHUB',
    'DOCKER',
    'RESTRUCTUREDTEXT'
    'SPHINX-DOC',
    'RUNNER',
    'CI/CD'
]
confluence_root_homepage = False
```

Confluence

- Créer un API token





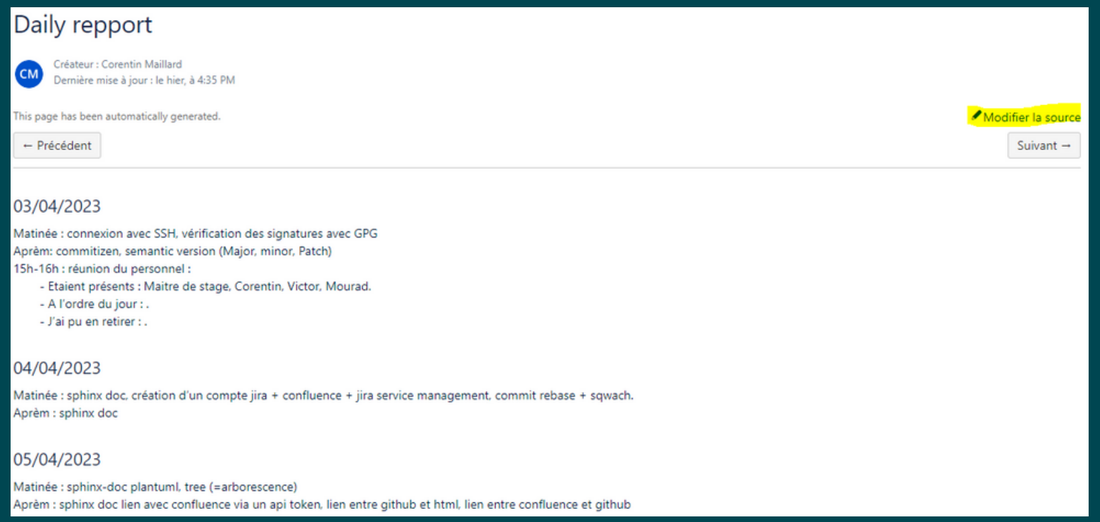
Source : https://id.atlassian.com/manage-profile/security/api-tokens

Confluence

- Source link vers GitHub

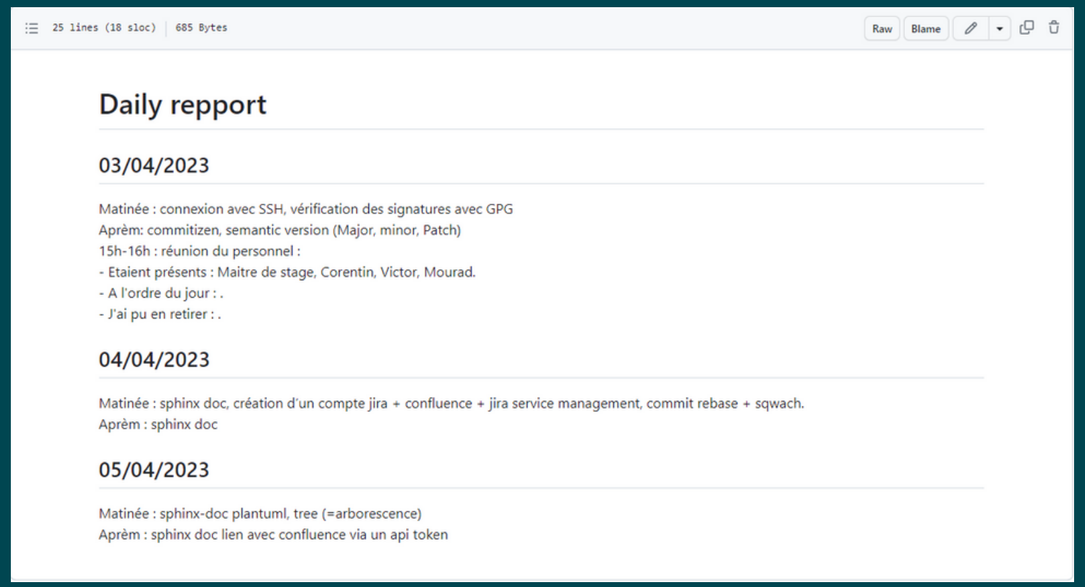
```
confluence_sourcelink = {
#    'type': 'github',
    'base': 'https://github.com',
    'url':'{base}/{owner}/{repo}/{view}/{version}/{page}{suffix}',
    'owner': 'MaillardCorentin',
    'repo': 'sphinx-doc',
    'container': '',
    'version': 'main/source',
    'view': 'blob',
    'protocol': 'https',
}
```

Confluence



- Confluence

- GitHub



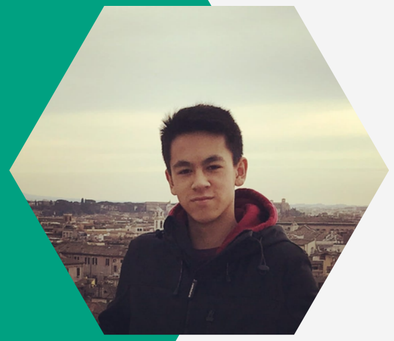
Confluence

- Envoi sur confluence

```
.\make.bat confluence
```

Avez-vous des questions ?

N'hésitez pas à nous contacter !



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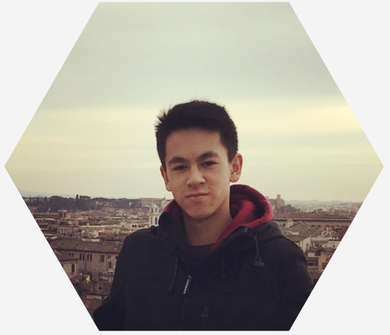

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