



# Génération automatique de documentation

# Balises Doxygen `/**` `*/` `///`

- Balises pour les en-têtes de fichiers

```
/**  
  @file alveolibres.h  
  @brief Déclaration de la classe AlveolesLibres  
  @version 1.0  
  @author Philippe CRUCHET  
  @date 19/10/2017  
  */
```

```
/**  
  @file alveolibres.cpp  
  @brief implémentation de la classe AlveolesLibres  
  @version 1.0  
  @author Philippe CRUCHET  
  @date 19/10/2017  
  @details Classe modélisant la gestion des alveoles libres  
  */
```

# Balises

- Balises pour les en-têtes de fonctions dans le fichier cpp

```
/**
 * @brief AlveolesLibres::AlveolesLibres
 * @details A la création le magasin est vide, toutes les alvéoles sont libres.
 * @param _nbRangees nombre de rangées du magasin, par défaut 10
 * @param _nbColonnes nombre de colonnes du magasin, par défaut 20
 * @author Philippe CRUCHET
 */
AlveolesLibres::AlveolesLibres(const int _nbRangees, const int _nbColonnes):
    nbRangees(_nbRangees),
    nbColonnes(_nbColonnes)
{
    int taille = nbRangees * nbColonnes;
    reserve(taille);
    for(int numAlveole = 1 ; numAlveole <= taille ; numAlveole++)
        push_back(numAlveole);
}
```

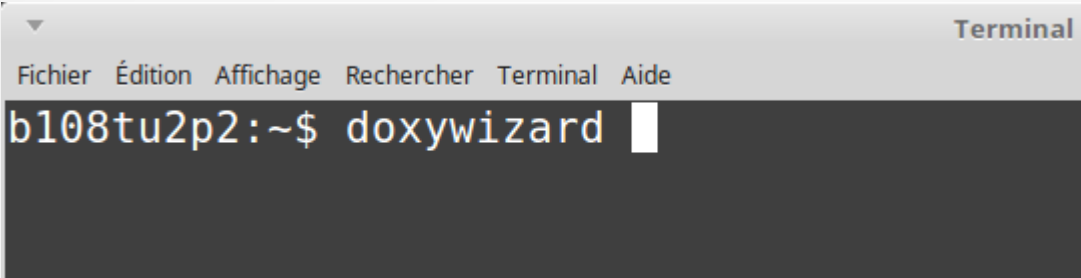
# Balises

- Balises pour les Attributs ou la définition de type

```
/** La classe AlveolesLibres hérite d'un vecteur d'entiers */  
typedef std::vector<int> PILE_ENTIERS;  
  
class AlveolesLibres : public PILE_ENTIERS  
{  
public:  
    AlveolesLibres(const int _nbRangees=10,const int _nbColonnes=20);  
  
private:  
    /** Le nombre de rangées du magasin */  
    int nbRangees;  
    /** Le nombres de colonnes du magasin */  
    int nbColonnes;  
};
```

# Génération de la documentation

- Utilisation de l'utilitaire doxywizard

A screenshot of a terminal window. The title bar at the top is light gray and contains the word "Terminal" on the right. Below the title bar is a menu bar with the items "Fichier", "Édition", "Affichage", "Rechercher", "Terminal", and "Aide". The main area of the terminal is dark gray and shows the command prompt "b108tu2p2:~\$" followed by the command "doxywizard" and a white cursor.

```
b108tu2p2:~$ doxywizard
```

# Configuration du générateur

Doxygen GUI frontend +

File Settings Help

Step 1: Specify the working directory from which doxygen will run

/home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/ Select...

Step 2: Configure doxygen using the Wizard and/or Expert tab, then switch to the Run tab to generate the documentation

Wizard **Expert** Run

Topics


- Project
- Mode
- Output
- Diagrams

Provide some information about the project you are documenting

Project name:

Project synopsis:

Project version or id:

Project logo: Select... 

Specify the directory to scan for source code

Source code directory:  Select...

☐ Scan recursively

Specify the directory where doxygen should put the generated documentation

Destination directory:  Select...

Previous Next

# Configuration du générateur

The screenshot shows the 'Doxygen GUI frontend +' window. It has a menu bar with 'File', 'Settings', and 'Help'. The main area is divided into two steps. Step 1 is 'Specify the working directory from which doxygen will run', with a text field containing '/home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/' and a 'Select...' button. Step 2 is 'Configure doxygen using the Wizard and/or Expert tab, then switch to the Run tab to generate the documentation'. Below this are three tabs: 'Wizard' (selected), 'Expert', and 'Run'. The 'Wizard' tab is active, showing a 'Topics' list on the left with 'Project', 'Mode' (highlighted), 'Output', and 'Diagrams'. The main area of the 'Wizard' tab contains two sections. The first is 'Select the desired extraction mode:' with three radio buttons: 'Documented entities only', 'All Entities' (selected), and 'Include cross-referenced source code in the output'. The second section is 'Select programming language to optimize the results for' with seven radio buttons: 'Optimize for C++ output' (selected), 'Optimize for C++/CLI output', 'Optimize for Java or C# output', 'Optimize for C or PHP output', 'Optimize for Fortran output', and 'Optimize for VHDL output'. At the bottom are 'Previous' and 'Next' buttons.

Doxygen GUI frontend +

File Settings Help

Step 1: Specify the working directory from which doxygen will run

/home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/ Select...

Step 2: Configure doxygen using the Wizard and/or Expert tab, then switch to the Run tab to generate the documentation

Wizard Expert Run

Topics

- Project
- Mode
- Output
- Diagrams

Select the desired extraction mode:

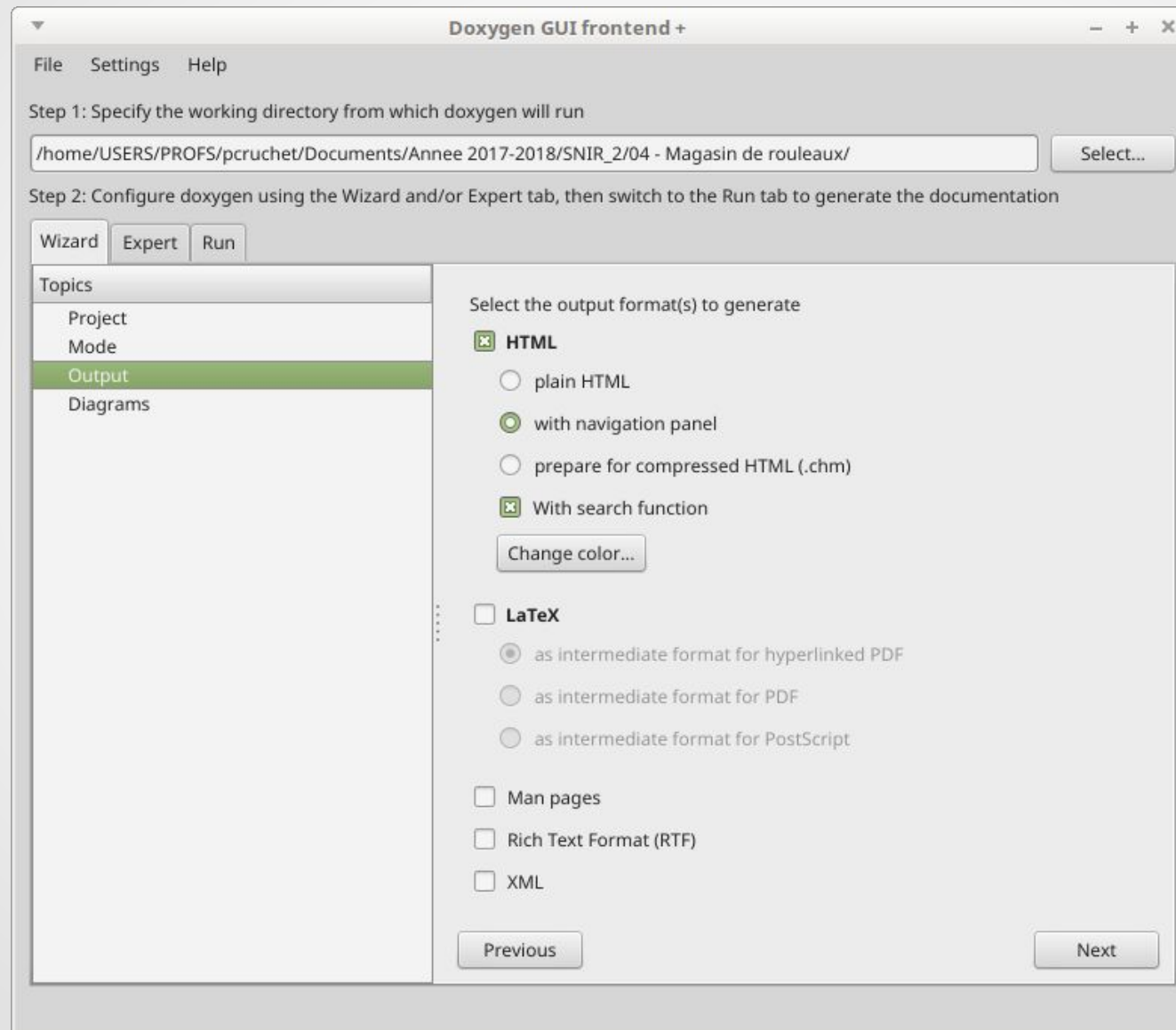
- ☐ Documented entities only
- ☒ All Entities
- ☐ Include cross-referenced source code in the output

Select programming language to optimize the results for

- ☒ Optimize for C++ output
- ☐ Optimize for C++/CLI output
- ☐ Optimize for Java or C# output
- ☐ Optimize for C or PHP output
- ☐ Optimize for Fortran output
- ☐ Optimize for VHDL output

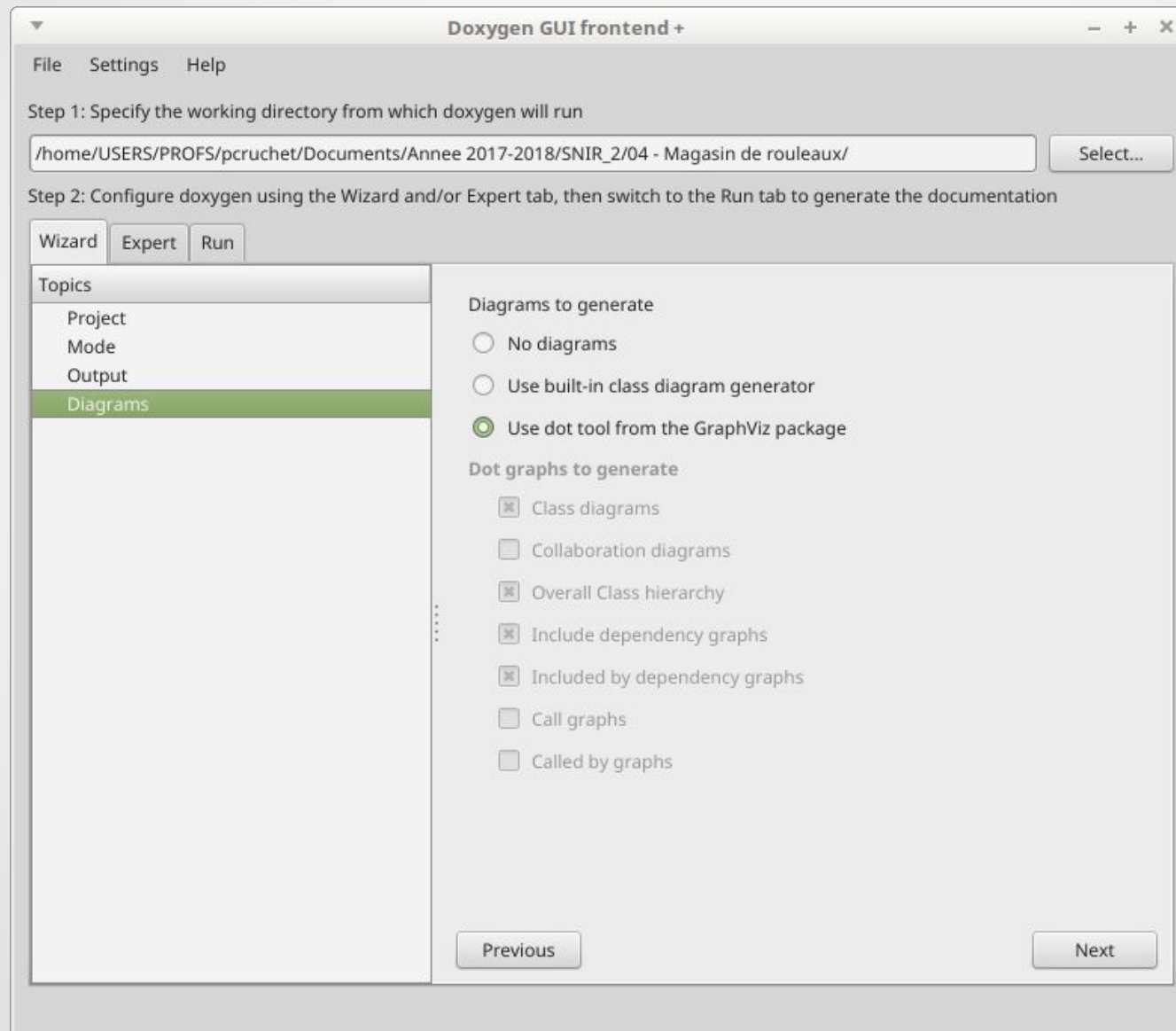
Previous Next

# Configuration du générateur





# Configuration du générateur



# Configuration du générateur

Doxygen GUI frontend +

File Settings Help

Step 1: Specify the working directory from which doxygen will run

/home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/ Select...

Step 2: Configure doxygen using the Wizard and/or Expert tab, then switch to the Run tab to generate the documentation

Wizard Expert Run

Topics

- Project
- Build
- Messages
- Input
- Source Browser
- Index
- HTML
- LaTeX
- RTF
- Man
- XML

**PROJECT\_BRIEF**


Using the `PROJECT_BRIEF` tag one can provide an optional one line description for a project that appears at the top of each page and should give viewer a quick idea about the purpose of the project. Keep the description short.


DOXYFILE\_ENCODING UTF-8

PROJECT\_NAME Magasin de Rouleaux

PROJECT\_NUMBER 1.0

PROJECT\_BRIEF Corrigé du TP1

PROJECT\_LOGO /home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/images/Logo.png 

OUTPUT\_DIRECTORY /home/USERS/PROFS/pcruchet/Documents/Annee 2017-2018/SNIR\_2/04 - Magasin de rouleaux/Documentation 

CREATE\_SUBDIRS ☐

ALLOW\_UNICODE\_NAMES ☐

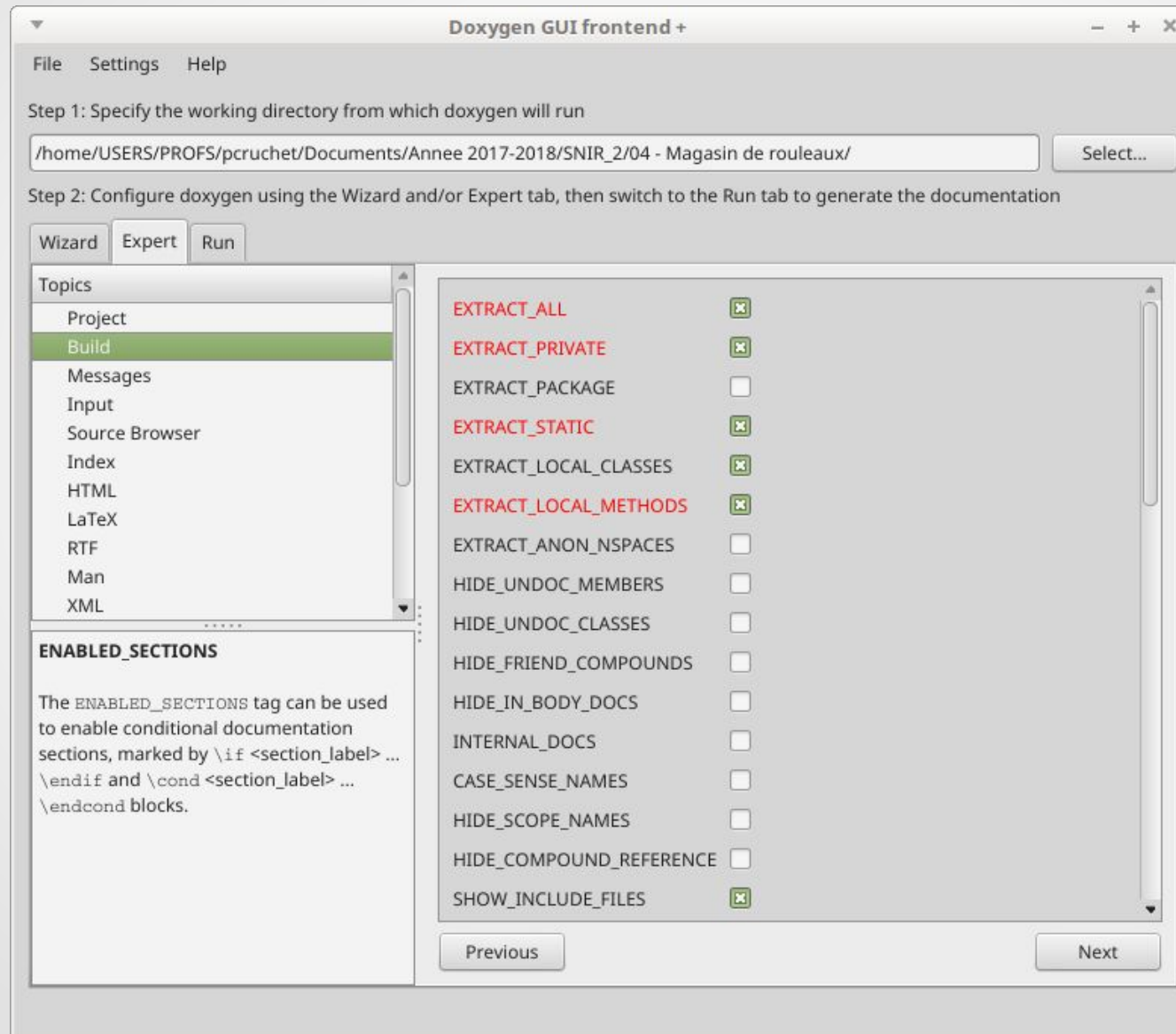
OUTPUT\_LANGUAGE French

BRIEF\_MEMBER\_DESC ☒

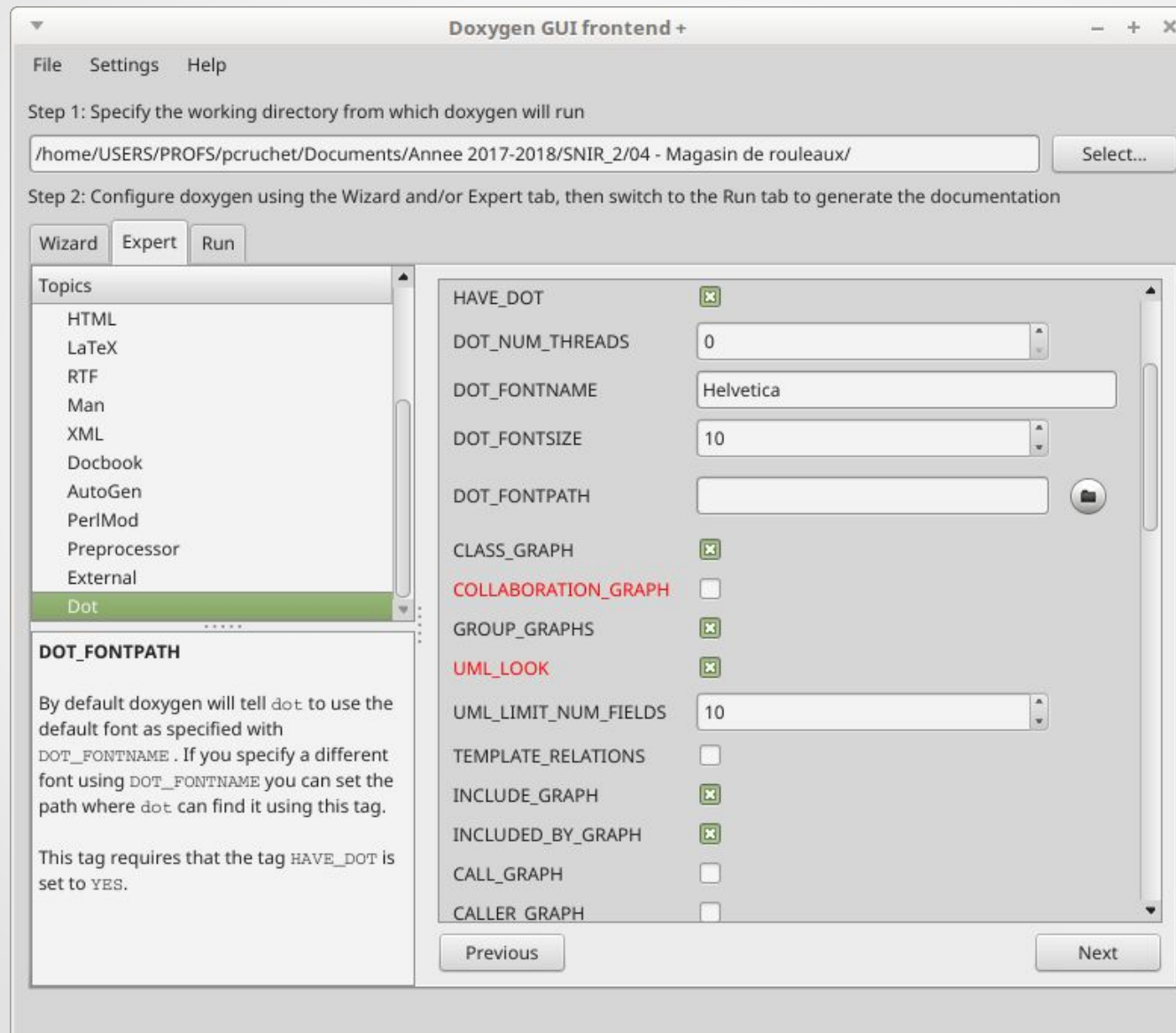
REPEAT\_BRIEF ☒

Previous Next

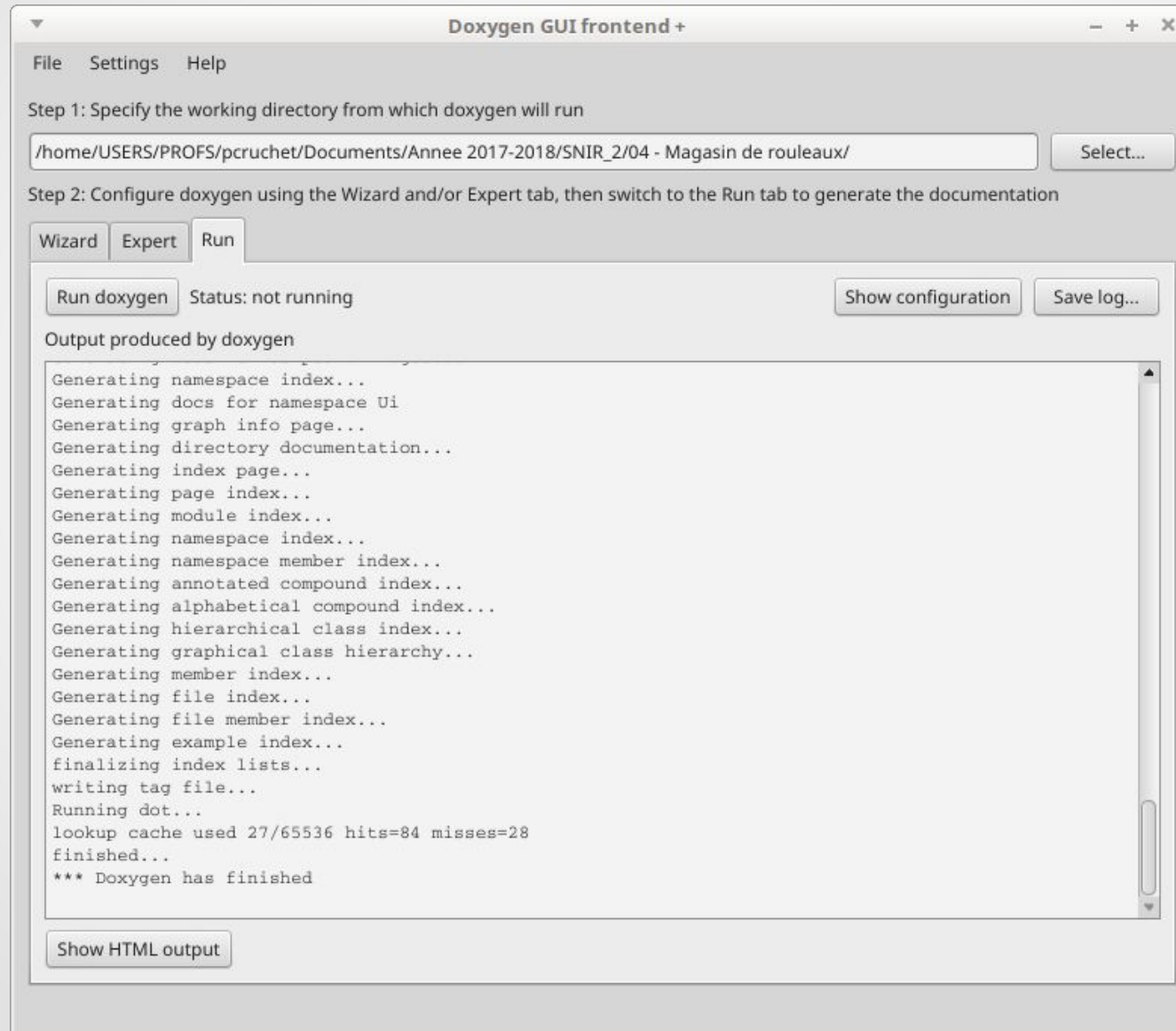
# Configuration du générateur



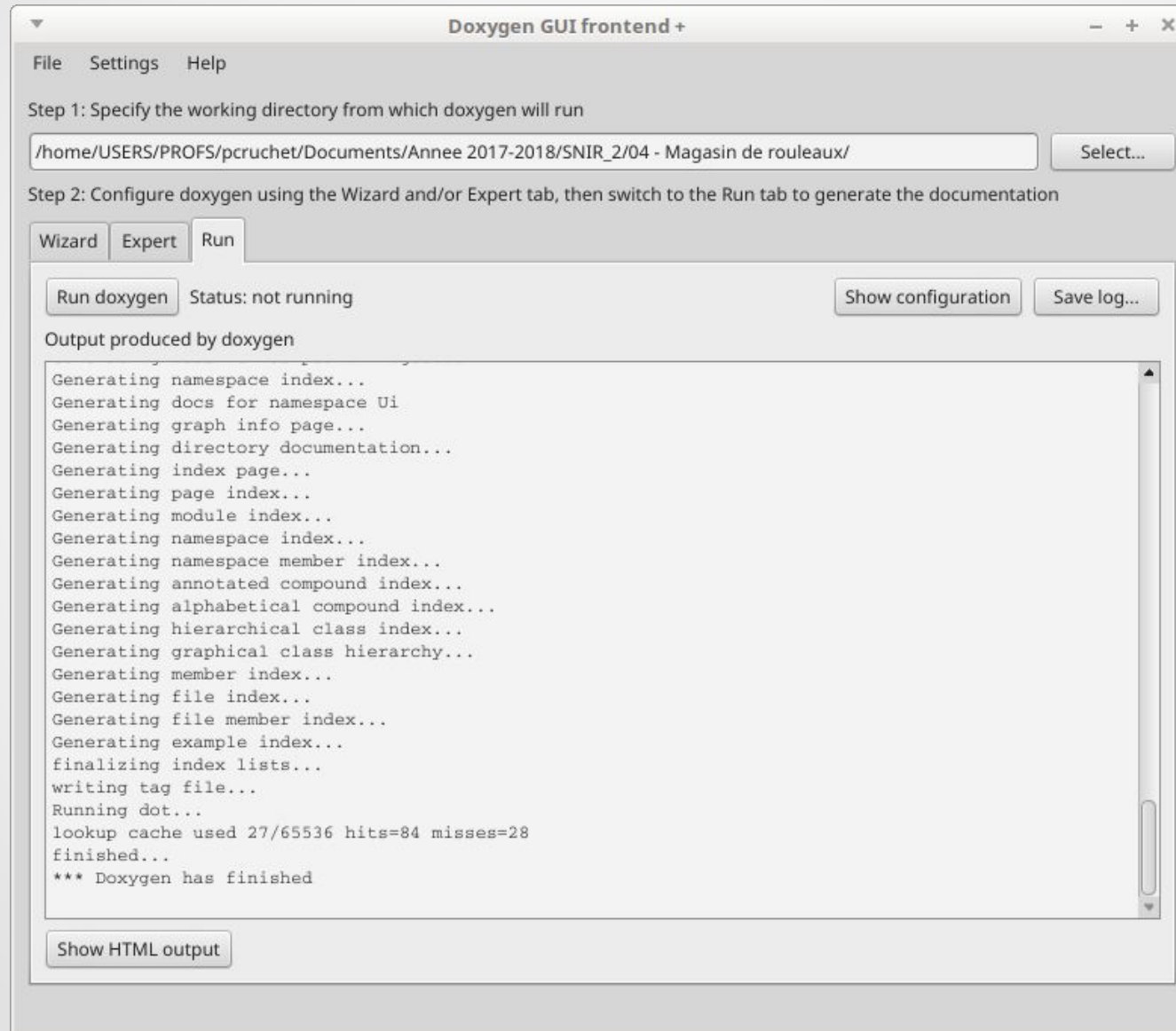
# Configuration du générateur



# Génération de la documentation

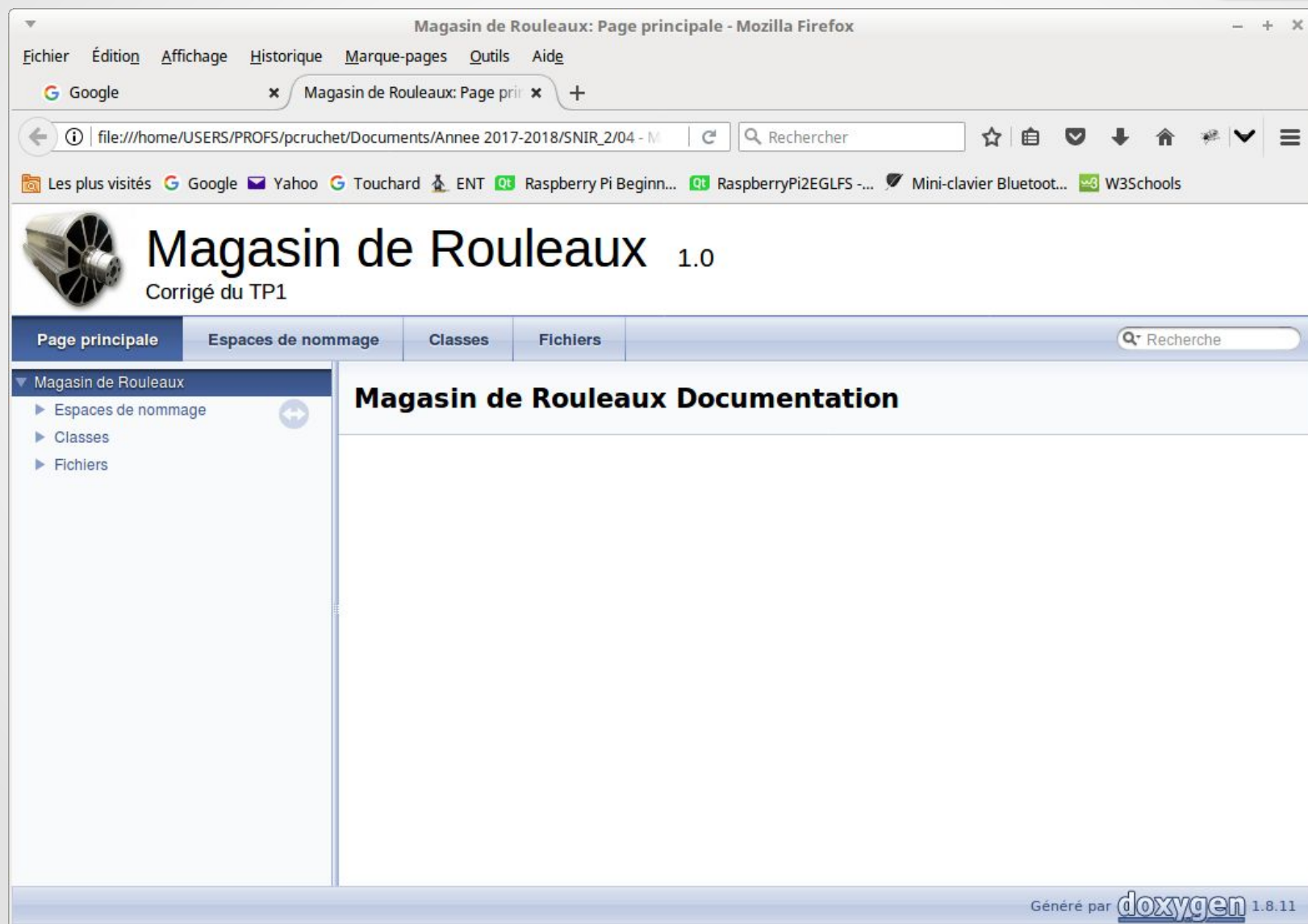


# Génération de la documentation





# Résultats obtenus



# Plus d'infos

- <http://www.stack.nl/~dimitri/doxygen/index.html>
- <http://franckh.developpez.com/tutoriels/outils/doxygen>
- <https://fr.wikipedia.org/wiki/Doxygen>