How to deposit your tool on the NRDC GitHub website

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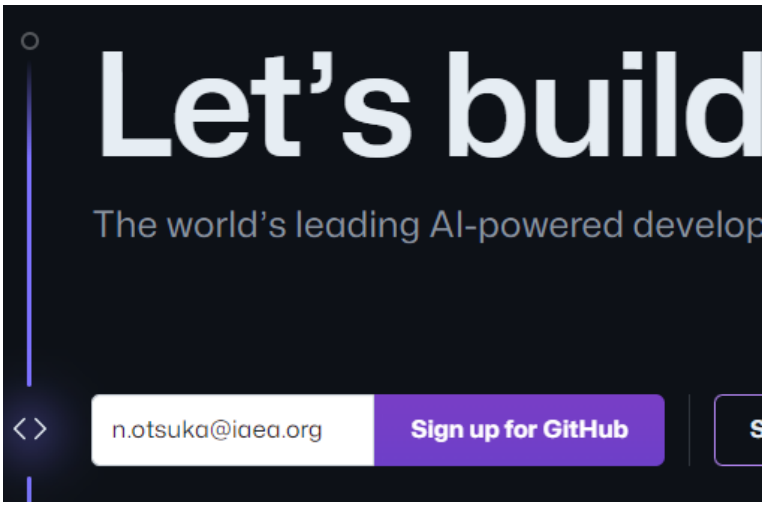
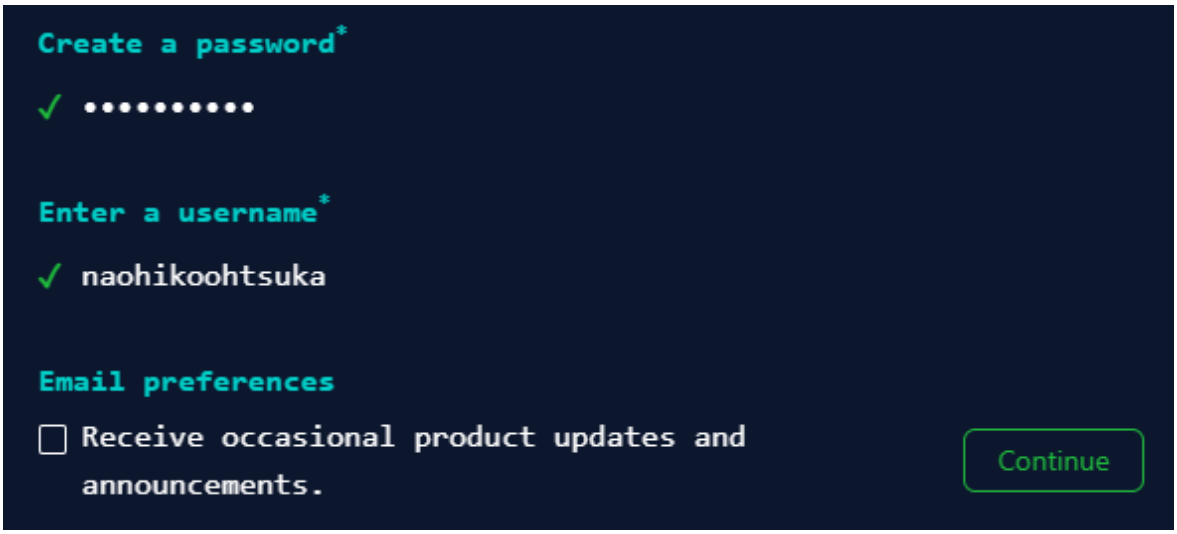
Following recommendation from the NRDC 2024 meeting, I prepared a GitHub website for exchange of software tools developed by NRDC members. Note that the primary website for exchange of the software tools between the centres is NRDC software website (https://nds.iaea.org/nrdc/nrdc_sft/).

This is a short guide for the NRDC members who want to share an EXFOR related codes developed by a NRDC member to the NRDC GitHub website. In this guide, we consider upload of a tool “x4util” with a GitHub username “naohikootsuka”.

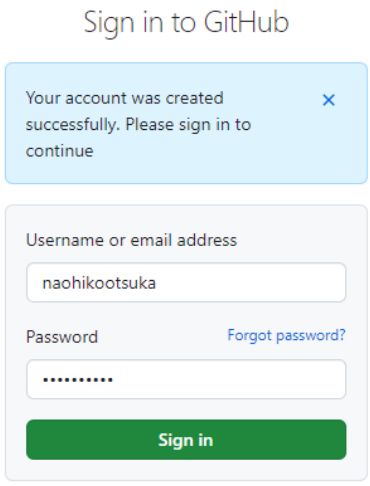
1. Creation of your GitHub account (username, password, access token)

1.1. Create a username and password with your email address at https://github.com/:

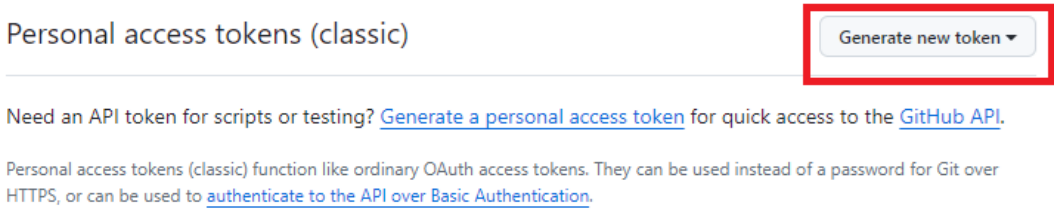




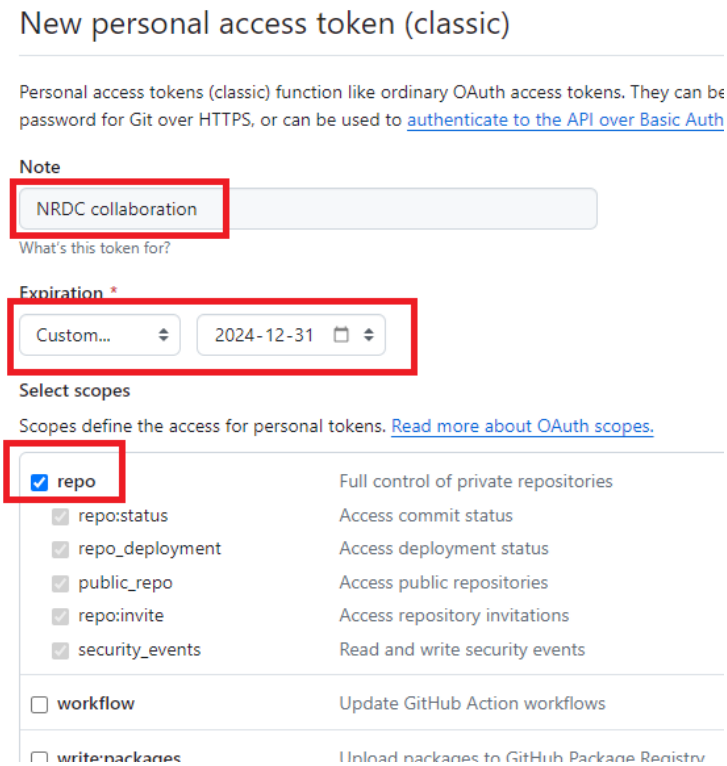
1.1. Sign in at https://github.com/ with your account:



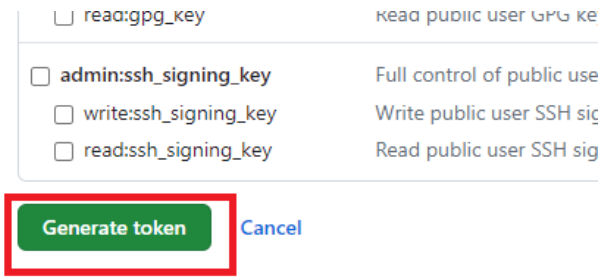
1.2. Generate an access token at https://github.com/settings/tokens :



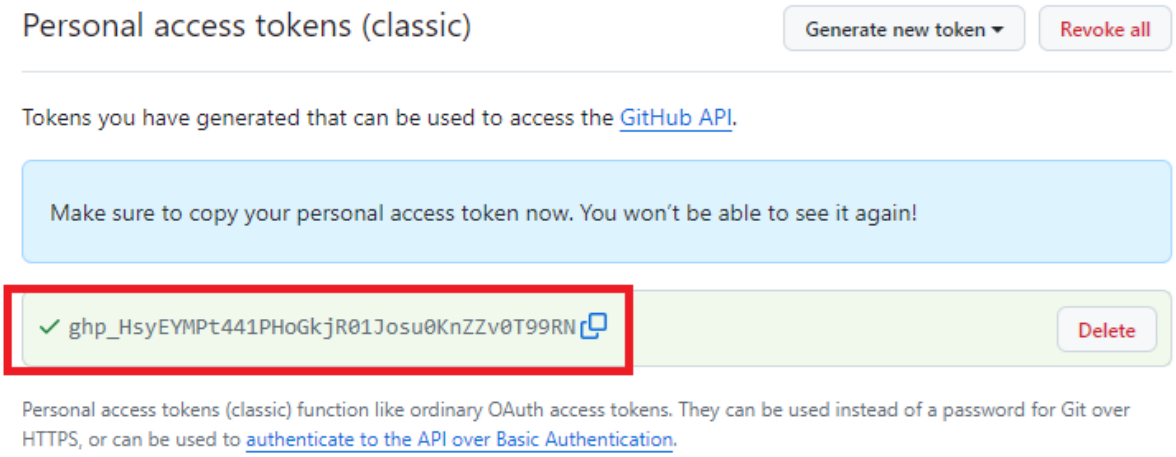
1.3. Provide note, expiration date and scope.



1.4. Click “Generate token”



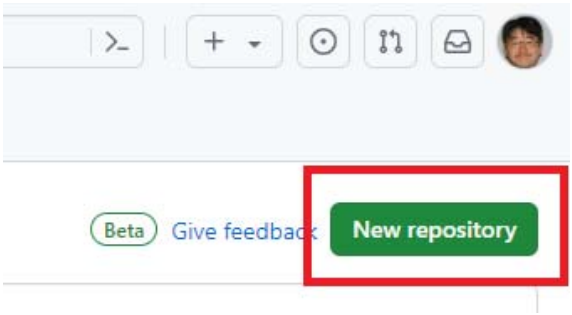
1.5. Print access token (This will be required when you deposit your tool.)



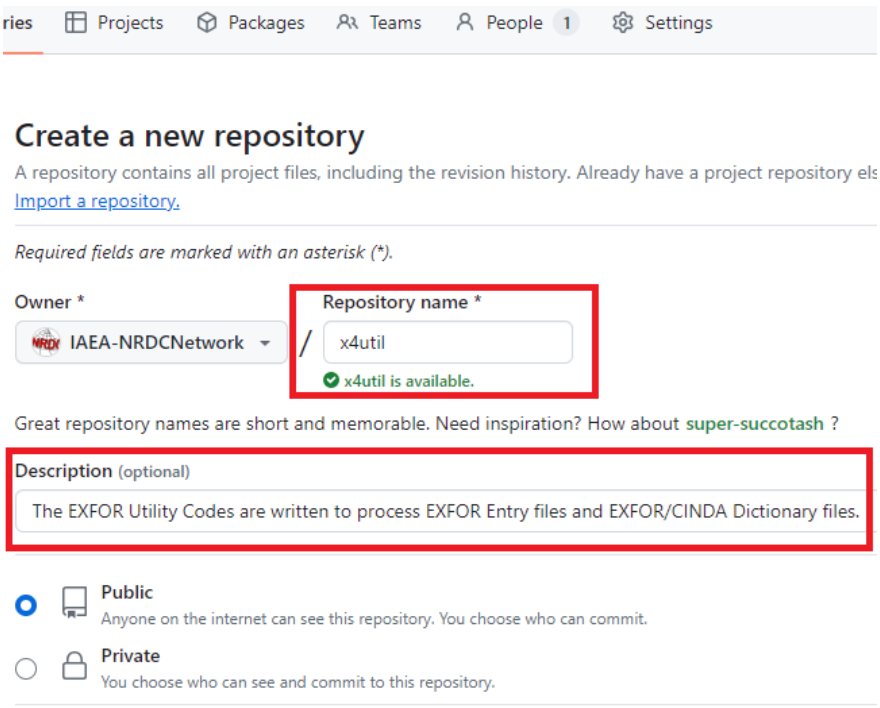
2. Creation of a repository of your tool on the NRDC GitHub site

2.1 Click “Repositories”:

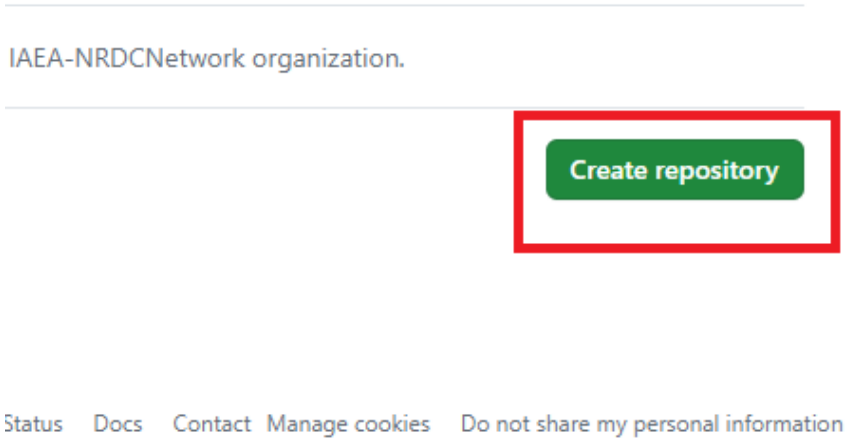
2.2. Click “New repository”:



2.3. Provide the information of the tool to be deposited:



2.4. Click “Create repository”:



3. Preparation of local repository on your computer (Linux)

```
% cd /home/git/x4util
% ls
      x4util-20240503/  iaea-nds-0244.pdf
% git init
      Initialized empty Git repository in /home/git/x4util/.git/
% git add .
% git commit -m "initial commit"
      [master (root-commit) ad2d3e2] initial commit
       12 files changed, 6474 insertions(+)
       create mode 100644 iaea-nds-0244.pdf
       create mode 100644 x4util-20240503/x4_dic227.py
       create mode 100644 x4util-20240503/x4_dica2j.py
       create mode 100644 x4util-20240503/x4_dicdis.py
      …

% git branch -M main
```

3. Upload the files to NRDC GitHub from your computer

```
% cd /home/git/x4util
% git remote add origin https://github.com/IAEA-NRDCNetwork/x4util.git
% git push origin main
      Username for 'https://github.com': naohikootsuka
      Password for 'https://naohikootsuka@github.com': ****
```

(Here you have to provide your access token, not password!)

```
      Counting objects: 100% (15/15), done.
      Delta compression using up to 8 threads
      Compressing objects: 100% (15/15), done.
      Writing objects: 100% (15/15), 266.08 KiB | 12.09 MiB/s, done.
      Total 15 (delta 1), reused 0 (delta 0)
      remote: Resolving deltas: 100% (1/1), done.
      To https://github.com/IAEA-NRDCNetwork/x4util.git
       * [new branch]      main -> main
```

4. Confirm presence of your files on NRDC GitHub

Visit https://github.com/IAEA-NRDCNetwork/x4util: