

How to deposit your tool on the NRDC GitHub website

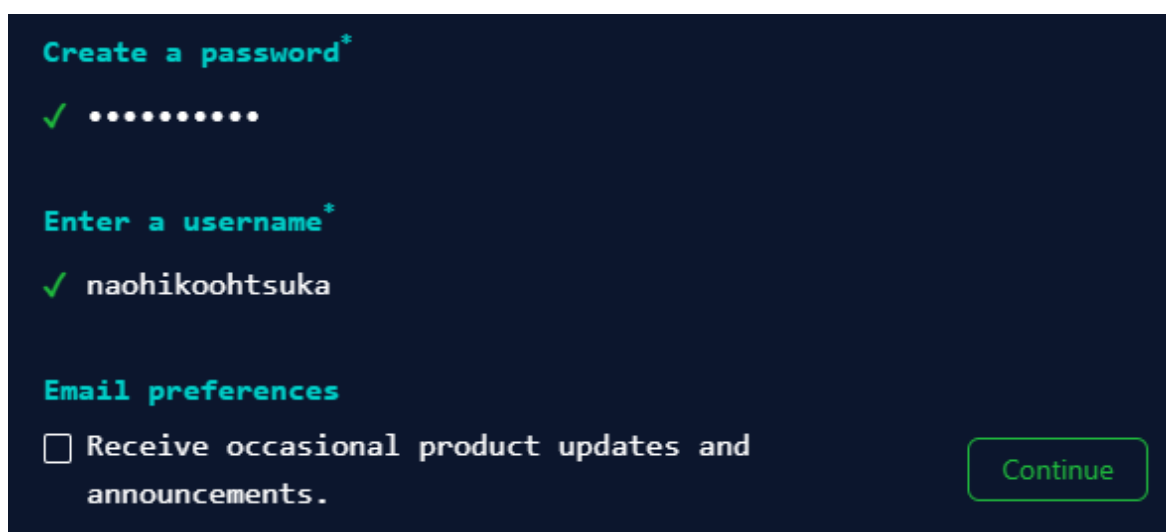
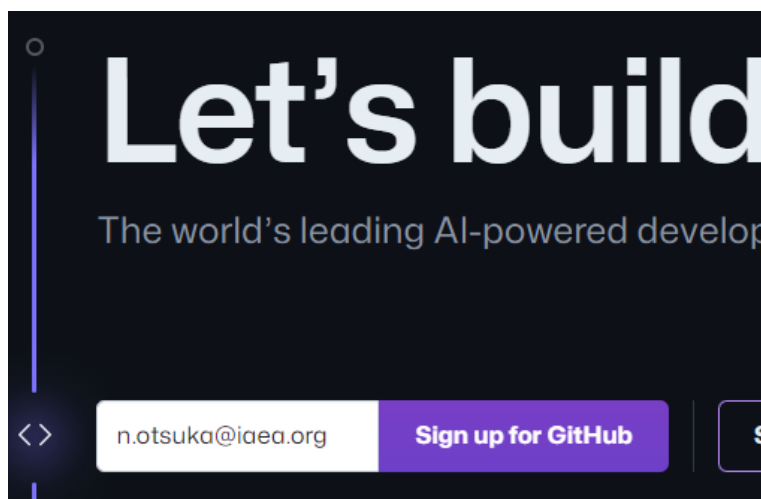
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Following recommendation from the NRDC 2024 meeting, I prepared a GitHub website for exchanges and collaboration on development of software tools between NRDC members on a trial basis. Note that the NRDC software website (https://nds.iaea.org/nrdc/nrdc_sft/) will serve as the primary website for software tool exchanges.

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. This guide explains a developer creates a new GitHub user account (user name: naohikootsuka) and upload a tool “x4util”.

1. Creation of your GitHub account

1.1. Create a username (naohikootsuka) and password with your email address on the GitHub main website <https://github.com/>:



1.2. Sign in at <https://github.com/> with the newly created account:

Sign in to GitHub

Your account was created successfully. Please sign in to continue

Username or email address

Password

[Forgot password?](#)

Sign in

1.3. Generate an access token at <https://github.com/settings/tokens/>.

Personal access tokens (classic)

Generate new token ▼

Need an API token for scripts or testing? [Generate a personal access token](#) for quick access to the [GitHub API](#).

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

1.4. Provide note, expiration date and scope.

New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

NRDC collaboration

What's this token for?

Expiration *

Custom...

2024-12-31

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> workflow	Update GitHub Action workflows
<input type="checkbox"/> write:packages	Upload packages to GitHub Package Registry

1.5. Click “Generate token:

<input type="checkbox"/> read:pgp_key	Read public user GPG ke
<input type="checkbox"/> admin:ssh_signing_key	Full control of public use
<input type="checkbox"/> write:ssh_signing_key	Write public user SSH sig
<input type="checkbox"/> read:ssh_signing_key	Read public user SSH sig

Generate token Cancel

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

Personal access tokens (classic) Generate new token ▼ Revoke all

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

✓ 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

Delete

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

2. Preparation of a directory (repository) on your computer (Linux)

The next example shows uploading of all files under the directory “x4util-20240503” and a file “iaea-nds-0244.pdf”.

```
% 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

Inform the NRDC coordinator the repository name (e.g., “x4util”), and do the following procedure once the repository is created by the coordinator:

```
% cd /home/git/x4util
% git remote add origin https://github.com/IAEA-NRDCNetwork/x4util.git
% git push origin main

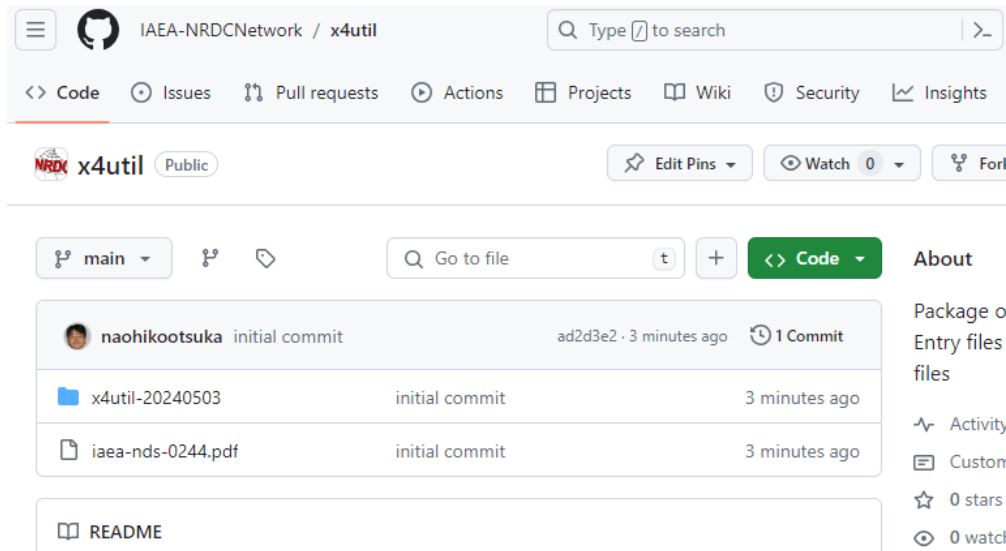
Username for 'https://github.com': naohikootsuka
Password for 'https://naohikootsuka@github.com': ****
```

(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>:



5. Deletion of the repository

If you want to delete the repository, inform the NRDC coordinator deletion of the repository, and also delete the .git/ folder in your computer.

```
% cd /home/git/x4util
% ls -a
x4util-20240503/  iaea-nds-0244.pdf
./  ../  .git/  x4util-20240503/  iaea-nds-0244.pdf
% rm -rf .git
```