

How to deposit your files to the NRDC GitHub

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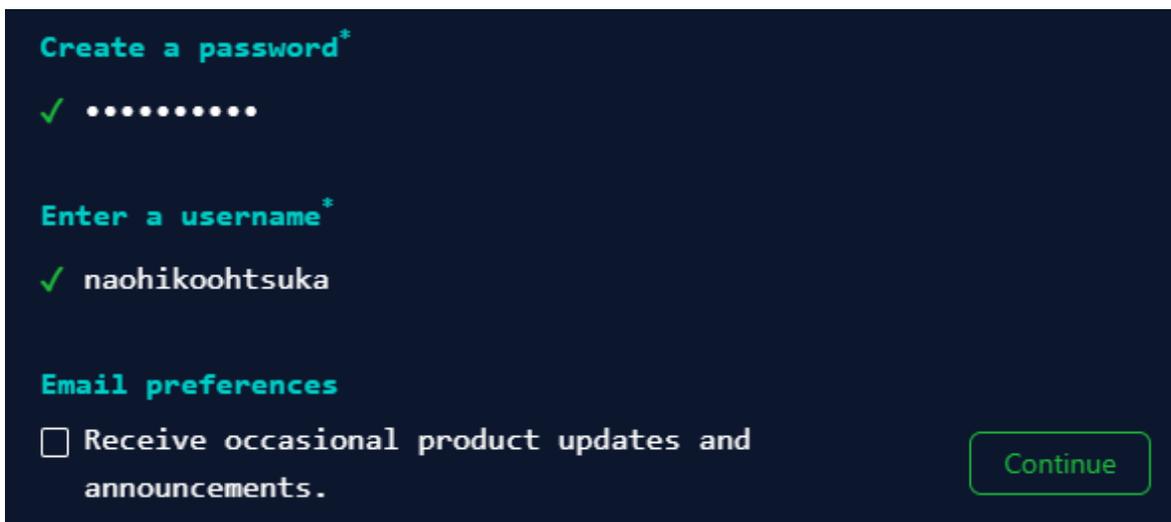
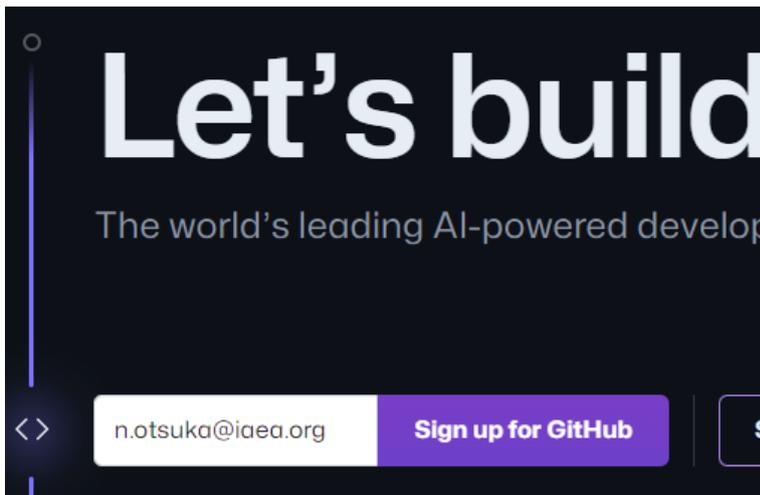
Following recommendation from the NRDC 2024 meeting, I prepared a GitHub website for exchanges and collaboration on development of software tools between NRDC members on a trial basis. Note that the NRDC software website (https://nds.iaea.org/nrdc/nrdc_sft/) will serve as the primary website for software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

I prepared it for a LINUX user, but I hope this is also helpful for Windows users.

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!

✓ 1234567890abcdefghijklmnopqrstuvwxyzABCDEFGHIJ	Delete
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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

The next example shows uploading of files under the directory “x4util”:

```
% cd /home/git/x4util
% ls
    iaea-nds-0244.pdf  license  README.md  src/  x4_spells.dic
% git init
    Initialized empty Git repository in /home/git/x4util/.git/
% git add .
% git commit -m "initial commit"
[master [master (root-commit) 3041531] initial commit
14 files changed, 6506 insertions(+)
create mode 100644 README.md
create mode 100644 iaea-nds-0244.pdf
```

```
create mode 100644 license
create mode 100644 src/x4_dic227.py
create mode 100644 src/x4_dica2j.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:

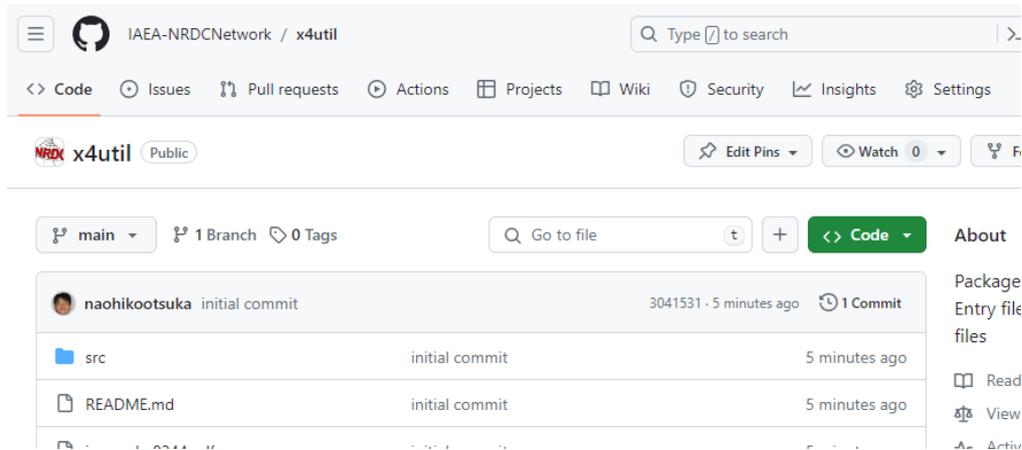
```
% cd /home/git/x4util
% git remote add origin https://github.com/IAEA-NRDCNetwork/x4util.git
% git push origin main
Username for 'https://github.com': naohikootsuka
Password for 'https://naohikootsuka@github.com': ****
```

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

```
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 8 threads
Compressing objects: 100% (17/17), done.
Writing objects: 100% (17/17), 267.44 KiB | 14.08 MiB/s, done.
Total 17 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote: This repository moved. Please use the new location:
remote:   https://github.com/IAEA-NRDCNetwork/x4util.git
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. Update of the repository

After editing the files, we update the remote repository by the following procedures:

```
% git add .
% git commit -m "New TRANS dictionary format implemented in x4_dicj2t.py"
% git push origin main

Username for 'https://github.com': naohikootsuka
Password for 'https://naohikootsuka@github.com':
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 813 bytes | 813.00 KiB/s, done.
Total 6 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
remote: This repository moved. Please use the new location:
remote:   https://github.com/IAEA-NRDCNetwork/x4util.git
To https://github.com/iaea-nrdcnetwork/x4util.git
   3041531..a2fa17f  main -> main
```

6. 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
```

7. Creation of a local copy of a repository and its synchronization

The next example shows how to make a local copy of the EXFOR Entry File repository on the NRDC GitHub site in /home/git/EXFOR-Entry-File of your computer:

```
% cd /home/git
% git clone https://github.com/IAEA-NRDCNetwork/EXFOR-Entry-File.git
Cloning into 'EXFOR-Entry-File'...
remote: Enumerating objects: 41716, done.
remote: Counting objects: 100% (352/352), done.
remote: Compressing objects: 100% (312/312), done.
remote: Total 41716 (delta 63), reused 220 (delta 40), pack-reused
41364 (from 2)
Receiving objects: 100% (41716/41716), 444.23 MiB | 19.06 MiB/s, done.
Resolving deltas: 100% (12893/12893), done.
Updating files: 100% (26634/26634), done.
```

This local copy can be synchronized with the repository by

```
% cd /home/git/EXFOR-Entry-File
% git pull
Already up to date.
```