

How to deposit your tool on the NRDC GitHub website

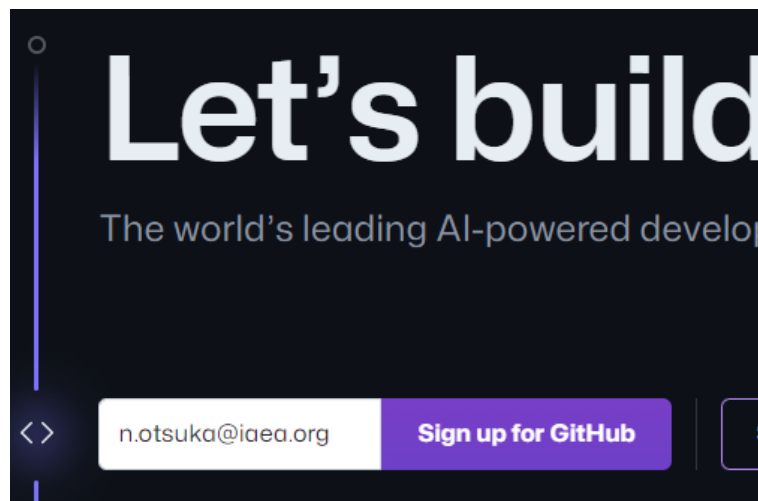
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Following recommendation from the NRDC 2024 meeting, I prepared a GitHub website for exchange of software tools developed by NRDC members. Note that the primary website for exchange of the software tools between the centres is NRDC software website (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/>:



Create a password*

✓

Enter a username*

✓ naohikoohtsuka

Email preferences

☐ Receive occasional product updates and announcements.

Continue

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

Sign in to GitHub

Your account was created successfully. Please sign in to continue

Username or email address

naohikootsuka

Password

.....

Forgot password?

Sign in

1.2. 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](#).

1.3. 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](#).

☒ repo

Full control of private repositories

☒ repo:status

Access commit status

☒ repo_deployment

Access deployment status

☒ public_repo

Access public repositories

☒ repo:invite

Access repository invitations

☒ security_events

Read and write security events

☐ workflow

Update GitHub Action workflows

☐ write:packages

Upload packages to GitHub Package Registry

1.4. Click “Generate token”

<input type="checkbox"/> read:gpg_key	Read public user GPG key
<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


1.5. 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](#)

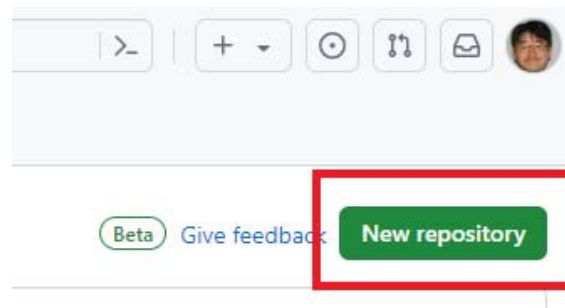
Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

2. 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:

A screenshot of the 'Create a new repository' form on GitHub. The form is titled 'Create a new repository' and includes a subtitle: 'A repository contains all project files, including the revision history. Already have a project repository? [Import a repository.](#)'. Below this, a note states: 'Required fields are marked with an asterisk (*).' The form has two main sections: 'Owner' and 'Repository name'. The 'Owner' section shows 'IAEA-NRDCNetwork' as the selected owner. The 'Repository name' section has a text input field containing 'x4util', which is highlighted with a red box. Below the input field, a green checkmark indicates 'x4util is available.'. Below the repository name section, there is a note: 'Great repository names are short and memorable. Need inspiration? How about [super-succotash](#)?' Below this, the 'Description' section is highlighted with a red box. It contains a text input field with the text: 'The EXFOR Utility Codes are written to process EXFOR Entry files and EXFOR/CINDA Dictionary files.' At the bottom of the form, there are two radio button options: 'Public' (selected) and 'Private'. The 'Public' option is described as 'Anyone on the internet can see this repository. You choose who can commit.' The 'Private' option is described as 'You choose who can see and commit to this repository.'

2.4. Click “Create repository”:

IAEA-NRDCNetwork organization.



Create repository

[Status](#) [Docs](#) [Contact](#) [Manage cookies](#) [Do not share my personal information](#)

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>:

The screenshot displays the GitHub interface for the repository **IAEA-NRDCNetwork / x4util**. The repository is public and has 0 stars and 0 watchers. The main content area shows a list of files and folders:

File/Folder	Commit Message	Commit Hash	Time
naohikootsuka initial commit			
x4util-20240503	initial commit	ad2d3e2	3 minutes ago
iaea-nds-0244.pdf	initial commit		3 minutes ago

Below the file list, there is a **README** section. On the right side, the **About** section indicates that the repository contains package entry files.