



The CCP-WSI code repository and development process

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The CCP-WSI Code Repository

- A major goal of CCP-WSI:
 - Bring the community together
 - Place code development on firm and sustainable footing
 - Computational WSI facility for all groups
- The CCP-WSI code repository has been setup and welcomes contributions!
 - Recently hosted by GitHub
 - Uses Git version control software
 - Rules, guidelines and advice on how to contribute all available on project wiki.



The CCP-WSI Code Repository

To gain access to the repository:

1. Register for GitHub: <https://github.com/>
2. Request to join the CCP-WSI project either by email or through the Contact Us page on the CCP-WSI website. **We will need your GitHub username.**
3. Once approved, clone the repository:

```
git clone git@github.com:CCP-WSI/ccpws.git
```



The CCP-WSI Code Repository

```
└─ ccp-wsi
  └─ OF3.0.1
    ├── README
    ├── libraries
    │   └─ README
    ├── models
    │   └─ README
    ├── platforms
    │   └─ README
    ├── solvers
    │   └─ README
    ├── test_cases
    │   └─ README
    ├── tutorials
    │   └─ README
    ├── utilites
    │   └─ README
    ├── Allwclean
    └── Allwmake
  └─ OF4.0
```

--Note this is for binaries which should not be committed to Git

Additional versions of OpenFoam or FoamExtend will appear here



How to contribute to the CCP-WSI Code Repository

- All documentation is on the CCP-WSI GitHub project wiki:

<https://github.com/CCP-WSI/ccpwsi/wiki>

- There are various rules and guidelines for contributing.
- We encourage feedback!



WSI Repository Practical

1. Clone the CCP-WSI training repository:
[git@github.com:CCP-WSI/training.git](https://github.com/CCP-WSI/training.git)
2. Set required OpenFoam environment variables
3. Follow development process to add a solver (see list) to the repository.
4. If finished, feel free to try adding other content to the training repository using the same process.



Choose a solver

1. basic/laplacianFoam
2. basic/potentialFoam
3. basic/scalarTransportFoam
4. combustion/chemFoam
5. combustion/engineFoam
6. combustion/fireFoam
7. combustion/PDRFoam
8. combustion/reactingFoam
9. combustion/XiFoam
10. compressible/rhoCentralFoam
11. compressible/rhoPimpleFoam
12. compressible/rhoSimpleFoam
13. compressible/sonicFoam
14. electromagnetics/molecularDynamics/mdFoam
15. electromagnetics/molecularDynamics/mdEquilibrationFoam
16. discreteMethods/dsmc/dsmcFoam
17. DNS/dnsFoam
18. electromagnetics/electrostaticFoam
19. electromagnetics/magneticFoam
20. electromagnetics/mhdFoam



Remember

- Today we have been working in the training repository
- You will need to:
 - Clone the CCP-WSI “live” repository
 - Set your OpenFoam environment variables to reflect the live repository
- Tomorrow:
 - Introduction to Programming in OpenFoam
 - Registration and Coffee 10 – 10.30am
- Tonight:
 - CCP-WSI Community Dinner
 - The Crown and Thistle,
Abingdon 19.30

