

# FLOPS 2016 Agda Tutorial

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## Agda Features (✓ this tutorial)

- ✓ Dependent function types
- ✓ Curry-Howard
- ✓ Indexed data types
- ✓ **Dependent pattern matching**
- ✓ Interactive programming
- (✓) Unicode and mixfix operators
- ✗ Modules (parameterized)
- ✗ Records
- ✗ Universe polymorphism
- ✗ Standard library
- ✗ Compilation
- ✗ Coinduction, copatterns
- ✗ Sized types
- ✗ Without-K
- ✗ Rewriting

## Getting Agda

- Source distribution for GHC 7.6, 7.8, 7.10
- Haskell platform + latest alex, happy, cpphs
- Latest release: 2.4.2.5

```
cabal install Agda
```

- Development version: 2.5.0

```
git clone https://github.com/agda/agda.git
cd agda
make
```

- You might end up in cabal hell...
- Agda wiki: <http://wiki.portal.chalmers.se/agda/pmwiki.php>
- Manual (WIP): <http://agda.readthedocs.org/en/latest/>