

- **Extending Theano with a C Op**
- **Python C-API**
- **Reference counting**
- **NumPy C-API**
- **NumPy data types**
- **NumPy ndarrays**
- **Accessing NumPy ndarrays' data and properties**
- **Creating NumPy ndarrays**
- **Methods the C Op needs to define**
- **Important restrictions when implementing a COp**
- **Simple COp example**
- **Alternate way of defining C Ops**
- **Main function**
- **Using GDB to debug COp's C code**