Need help?

- Questions, Support, Install issues: Google groups
- Reporting bugs: torch7 nn cutorch cunn optim threads
- Hanging out with other developers and users (strictly no install issues, no large blobs of text): Gitter Chat

Torch Package Reference Manual

Torch is the main package in Torch7 where data structures for multi-dimensional tensors and mathematical operations over these are defined. Additionally, it provides many utilities for accessing files, serializing objects of arbitrary types and other useful utilities.

Torch Packages

- Tensor Library
    - Tensor defines the *all powerful* tensor object that provides multi-dimensional numerical arrays with type templating.
    - Mathematical operations that are defined for the tensor object types.
    - Storage defines a simple storage interface that controls the underlying storage for any tensor object.

- File I/O Interface Library
    - File is an abstract interface for common file operations.
    - Disk File defines operations on files stored on disk.
    - Memory File defines operations on stored in RAM.
    - Pipe File defines operations for using piped commands.
    - High-Level File operations defines higher-level serialization functions.

- Useful Utilities
    - Timer provides functionality for *measuring time*.
    - Tester is a generic tester framework.

- CmdLine is a command line argument parsing utility.
- Random defines a random number generator package with various distributions.
- Finally useful utility functions are provided for easy handling of torch tensor types and class inheritance.

Useful Links

- Community packages
- Torch Blog
- Torch Slides