# 1.1 CORE FEATURES

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## 1. Tensor Computations

↳ Multi-Dimentional Arrays

## 2. GPU Acceleration

↳ Enables faster computations

## 3. Dynamic Computation Graph

↳ The graphs can be changed at the run time also. This adds flexibility in the system, make experimentation and debugging easier.

## 4. Automatic Differentiation

autograd ⟶ differentiation ⟶ tensor

## 5. Distributed Training

since a single machine or a single GPU can not handle larger model or larger dataset in the case of deep learning. So we need to use multiple machine, make use of multiple GPU clusters

## 6. Interoperability with other libraries

i.e. pytorch is within python universe, therefore can be used with other python libraries.