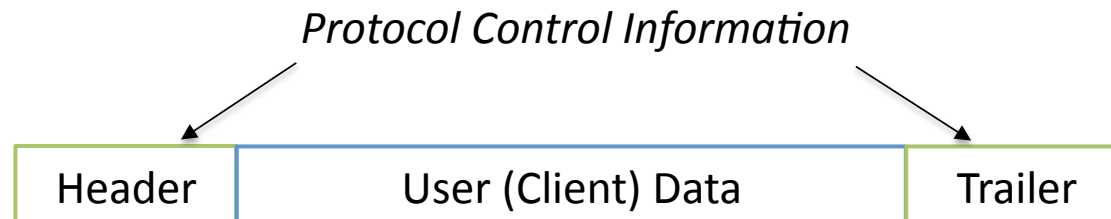
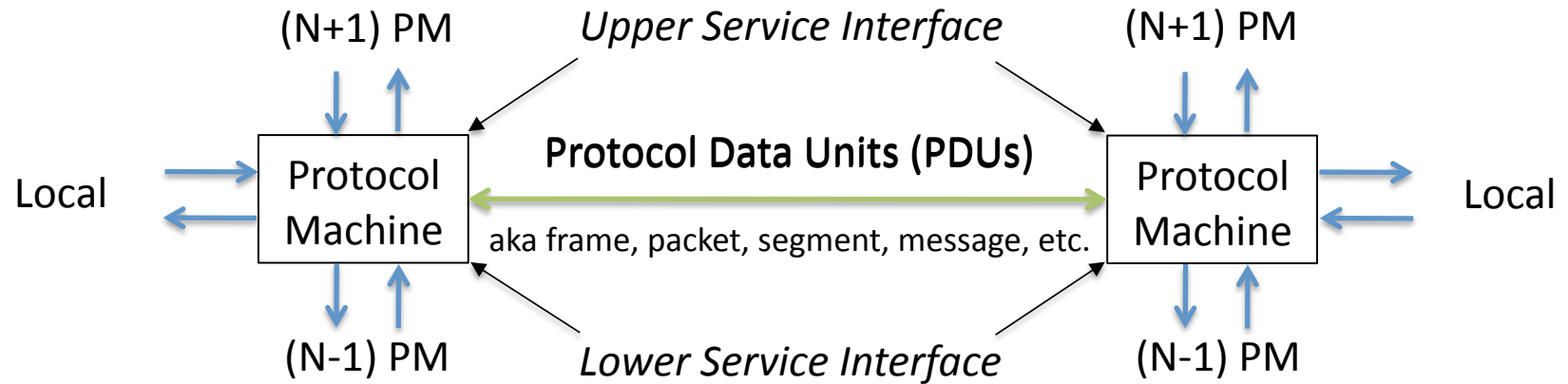


A Little Networking Background...

# Main Ideas

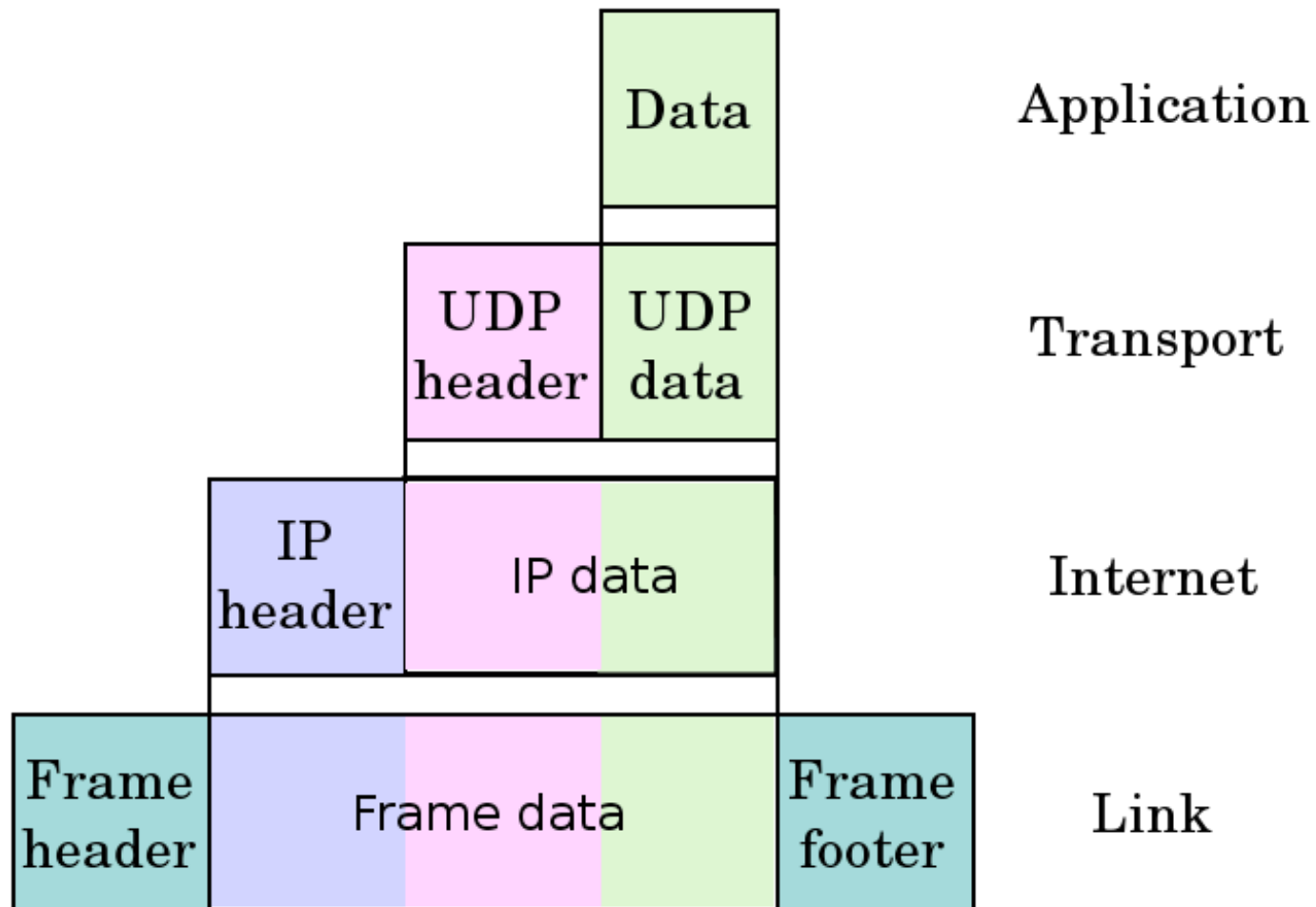
- Protocol: “For two systems to communicate, they must have a shared conceptual schema. In other words, they must already have a common understanding about their world and the things in it that they want to talk about.”
- Service: “An abstraction of the interface between layers that is system independent.” Consists of *primitives* and a set of rules that determine the legal sequences in which the service primitives can be invoked.

# Recurring Patterns



Source: Day, John. Patterns in Network Architecture. Boston: Prentice Hall, 2008.

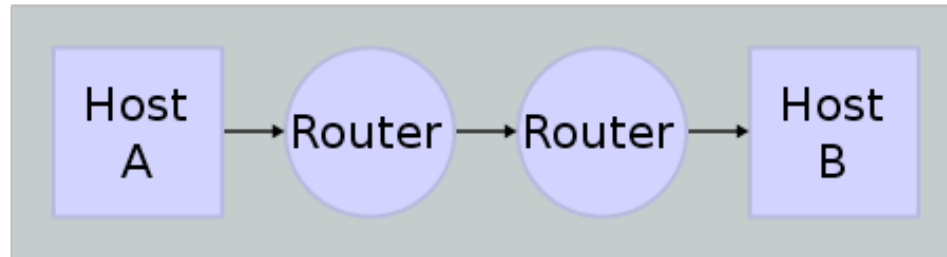
# UDP Encapsulation Example



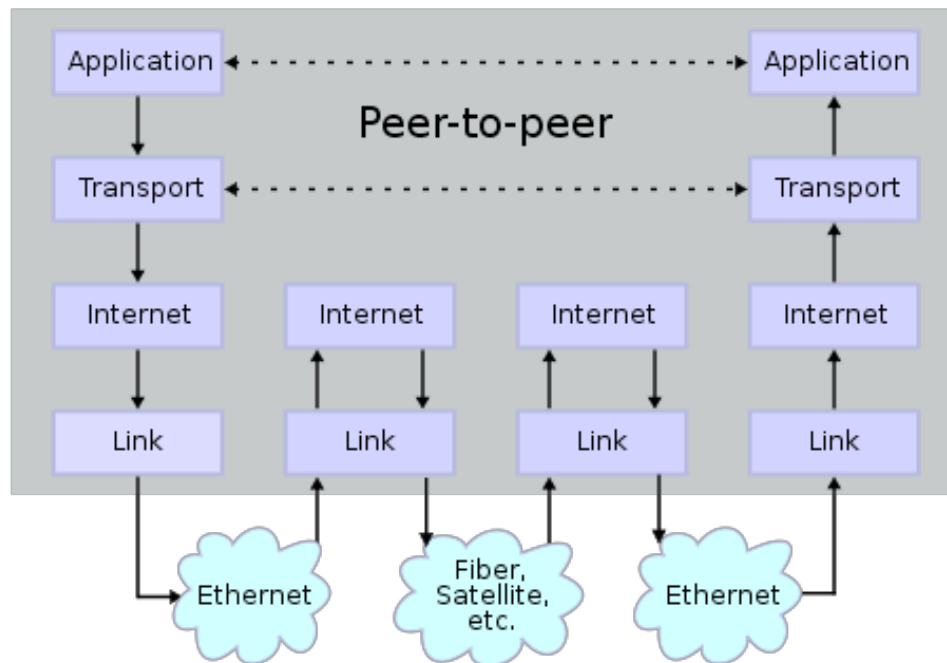
Source: [http://en.wikipedia.org/wiki/File:UDP\\_encapsulation.svg](http://en.wikipedia.org/wiki/File:UDP_encapsulation.svg)

# Connections:

## Network Connections



## Stack Connections



Source: [http://en.wikipedia.org/wiki/File:IP\\_stack\\_connections.svg](http://en.wikipedia.org/wiki/File:IP_stack_connections.svg)