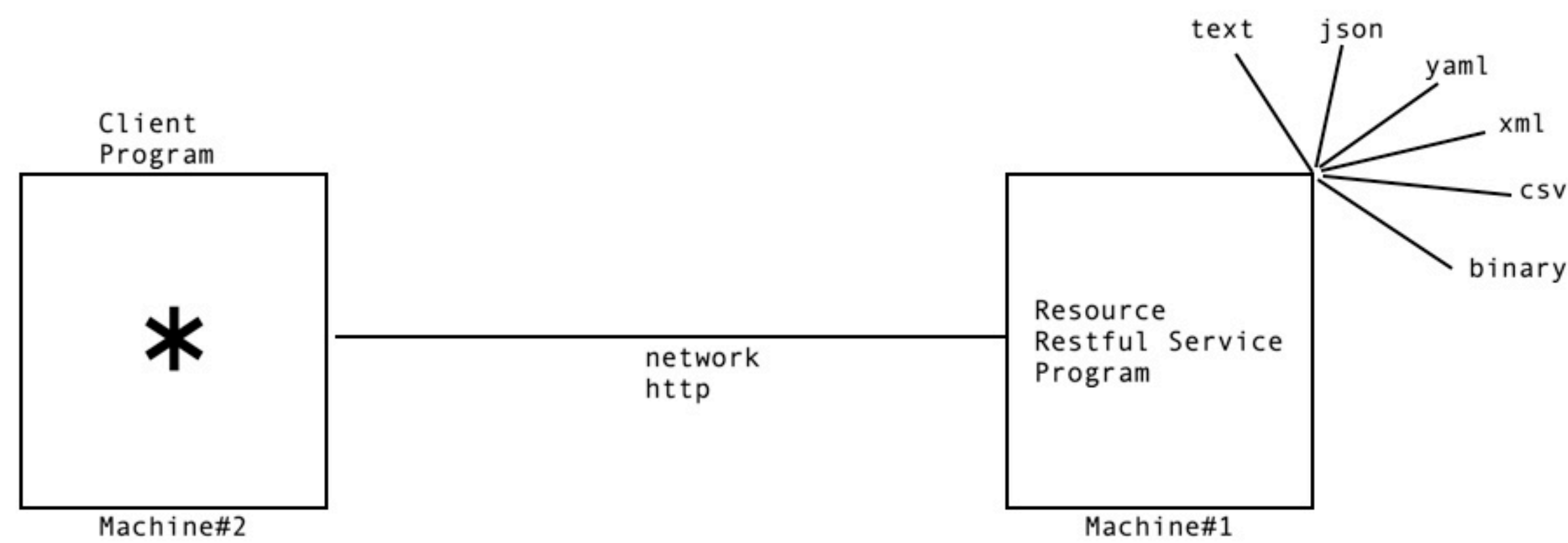


Restful Service:  
its an Architectural Style of building the software applications in making them interoperable distributed solution. There are set of principles that needs to be adopted in building the applications, so that those becomes interoperable

whereas in SOAP we achieved interoperability through specification standards and enforcing and following the standards is very hard and difficult to achieve inter-operability.



protocol:  
protocol is nothing but bunch of rules or guidelines.  
network protocol is nothing but bunch of rules that 2 programs or machines has to follow in exchanging the data over the network. Protocol ensures the below.  
1. The physical communication channel is shared across multiple computers, even though several computers are exchanging the data at the same time, protocol ensures the data is not collided with another data and the information is exchanged intact as if only those 2 computers are only exchanging the data on the channel  
2. protocol ensures always the intended receiver only receives the data  
3. protocol ensures the guaranteed delivery of the data

There are 2 types of protocols are there  
1. network protocol [tcp/udp] = moving the physical bits of data from one computer to another computer  
2. application protocols = defines the semantics and structure in exchanging the data between the programs of the computers, so that the information being exchanged becomes meaningful  
    1. HTTP  
    2. FTP  
    3. SMTP/POP/IMAP  
    4. IIOP  
etc  
#2 applications will define their own structure/semantics through which they exchange the data inan understandable format, this is called “application protocol”