Difference between Private and Public IP addresses

Private IP Address and Public IP Address are used to uniquely identify a machine on the internet. Private IP address is used with a local network and public IP address is used outside the network. Public IP address is provided by ISP, Internet Service Provider.

Following are the important differences between Private IP Address and Public IP Address.

Sr. No.	Key	Private IP Address	Public IP Address
1	Scope	Private IP address scope is local to present network.	Public IP address scope is global.
2	Communication	Private IP Address is used to communicate within the network.	Public IP Address is used to communicate outside the network.
3	Format	Private IP Addresses differ in a uniform manner.	Public IP Addresses differ in varying range.
4	Provider	Local Network Operator creates private IP addresses using network operating system.	ISP, Internet Service Provider controls the public IP address.
5	Cost	Private IP Addresses are free of cost.	Public IP Address comes with a cost.
6	Locate	Private IP Address can be located using ipconfig command.	Public IP Address needs to be searched on search engine like google.

7	Range	Private IP Address range:
		
		`10.0.0.0 – 10.255.255.255,`
		`172.16.0.0 – 172.31.255.255,`
		`192.168.0.0 – 192.168.255.255`
			Except private IP Addresses, rest IP addresses are public.

8	Example	Private IP Address is like 192.168.11.50.	Public IP Address is like 17.5.7.8.