

Communication Protocol

This is a quick view of what are the different communications of client/server:

[Login](#)

[Game](#)

- [Actions](#)
 - Action grab phase
 - Action run phase
 - Action shoot phase
 - Action use power up phase
- [Power Ups](#)
 - Targeting scope
 - Newton
 - Tagback grenade
 - Teleporter
- [Various communication messages](#)

Login

+-----+	+-----+
Client	Server
+-----+	+-----+
	ping
<-----	
pong	
----->	
	login
<-----	
	insert a nickname
<-----	
nickname	
----->	

login request (server)

login\n

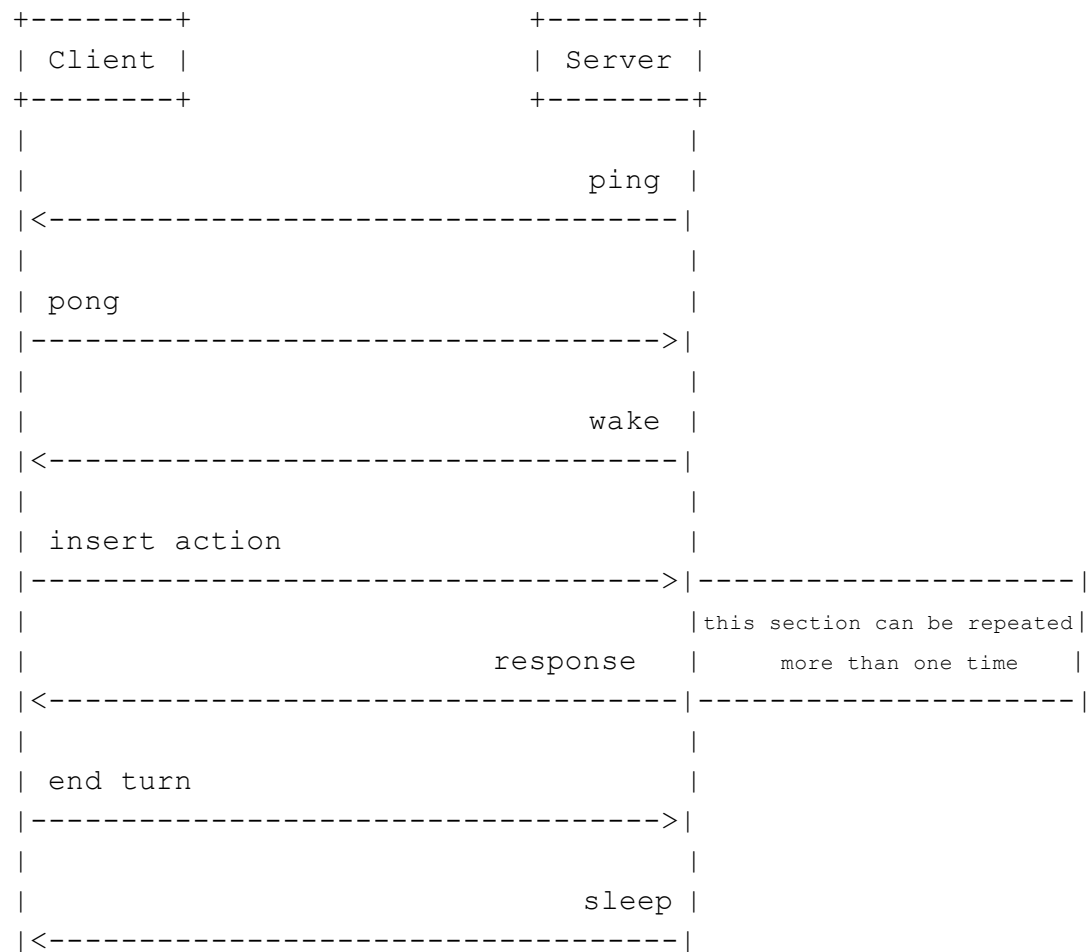
insert a nickname\n

login reply (client)

nickname\n

Game

Turn phase



wake (server)

It's your turn\n

insert action (client)

```
insert action\n (grab,run,shoot,use power up)
```

response (server)

```
response\n (ok/error)
```

end turn (client)

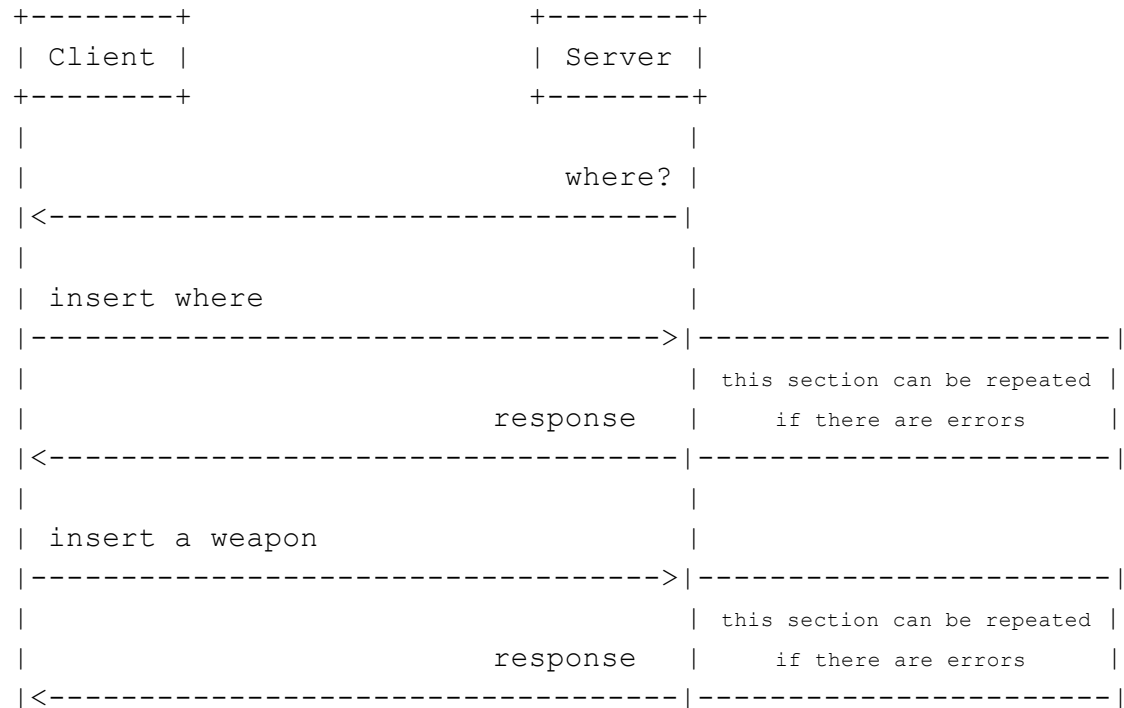
end turn\n (declare the end of you turn)

sleep (server)

Your turn is over\n

Actions

Action grab phase



where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error/choose a weapon)

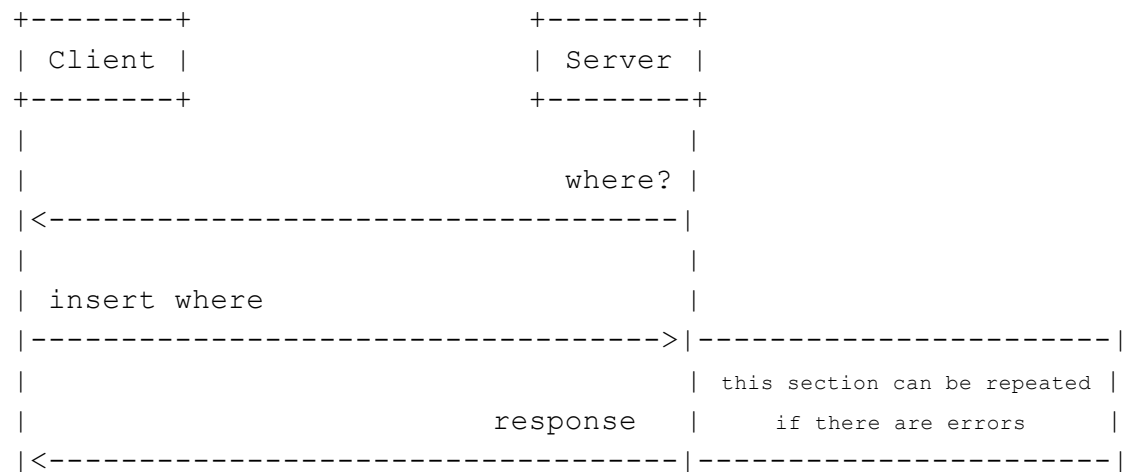
insert a weapon(client)

insert a weapon\n

response (server)

response\n (ok/error)

Action run phase



where?(server)

where?\n

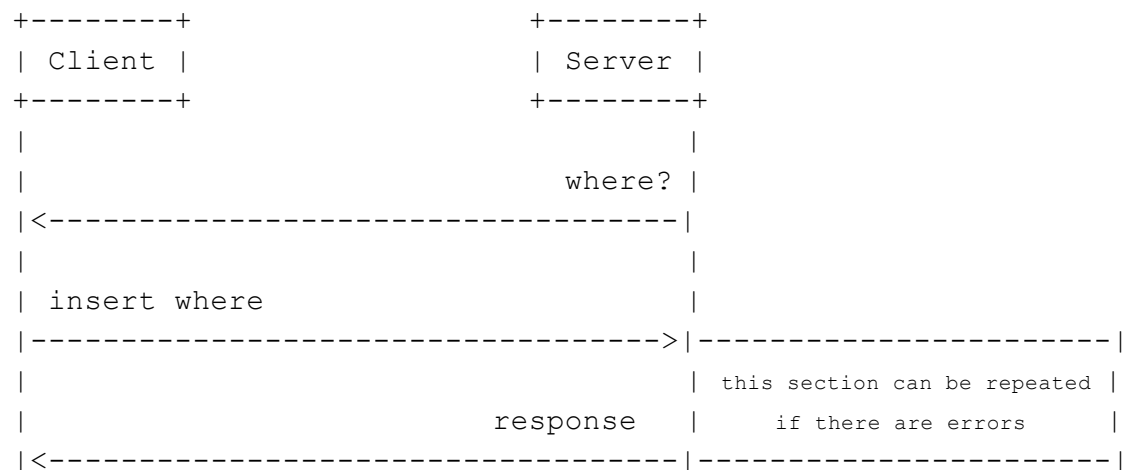
insert where(client)

insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error)

Action shoot phase



where?(server)

where?\n

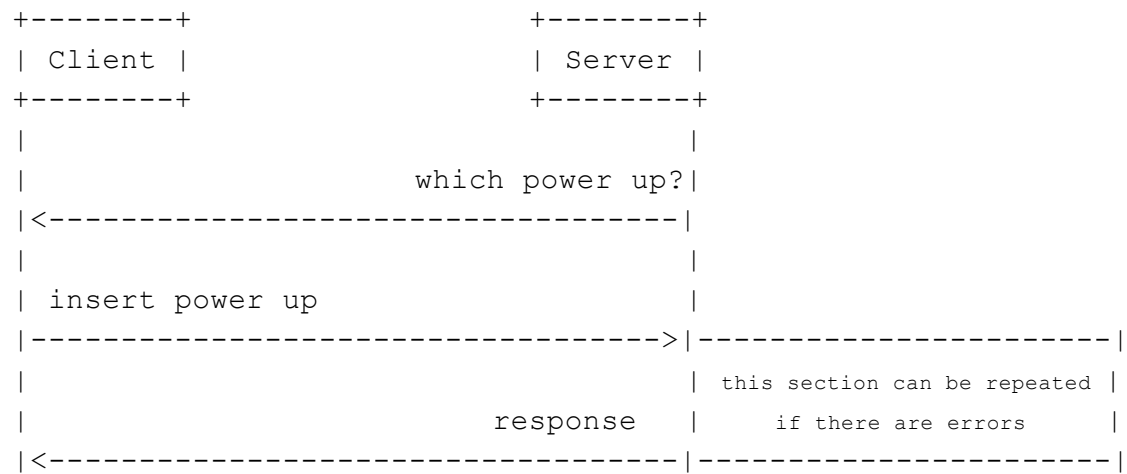
insert where(client)

insert where\n (as coordinates(x,y) or color of room or player)

response (server)

response\n (ok/error)

Action use power up phase



which power up?(server)

which power up?\n

insert power up(client)

insert power up\n (as power up name)

response (server)

response\n (ok/error)

Power Ups

Targeting scope

```
+-----+               +-----+
| Client |               | Server |
+-----+               +-----+
|
|                               |
|               who target?|
|<-----|
|
|                               |
|   insert who               |
|----->|-----|
|
|                               |   this section can be repeated |
|               response      |   if there are errors   |
|<-----|-----|
```

who target?(server)

who target?\n

insert who(client)

insert who\n (as enemy player)

response (server)

response\n (ok/error)

Newton

```
+-----+               +-----+
| Client |               | Server |
+-----+               +-----+
|
|                               |
|               who target?|
|<-----|
|
|                               |
|   insert who               |
|----->|-----|
|
|                               |   this section can be repeated |
|               response      |   if there are errors   |
|<-----|-----|
|
|                               |
|               where?|
|<-----|
|
|                               |
|   insert where               |
|----->|-----|
|
|                               |   this section can be repeated |
|               response      |   if there are errors   |
|<-----|-----|
```

who target?(server)

who target?\n

insert who(client)

insert who\n (as enemy player)

response (server)

response\n (ok/error)

where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y))

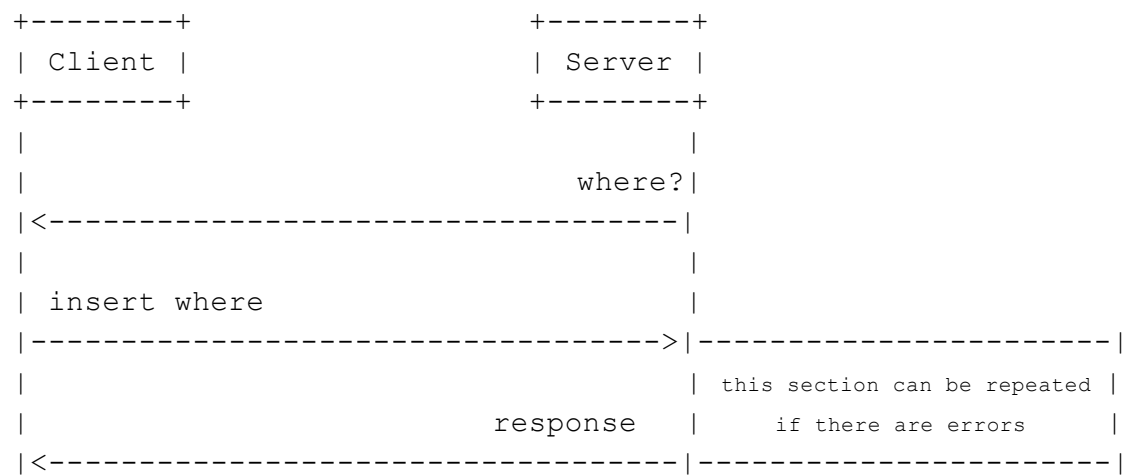
response (server)

response\n (ok/error)

Tagback grenade

+-----+	+-----+
Client	Server
+-----+	+-----+
	who target?
<-----	
insert who	
----->	-----
	this section can be repeated
	response if there are errors
<-----	-----

Teleporter



where?(server)

where?\n

insert where(client)

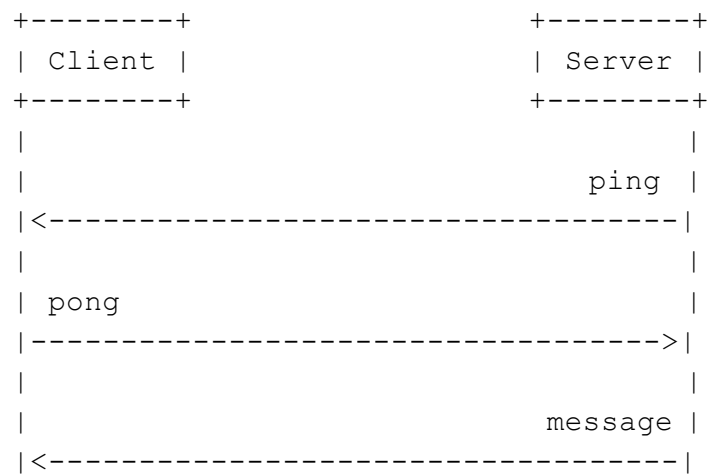
insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error)

Various communication messages

Information message



message(server)

message\n (such as movement of other player, how many points earned and so on..)