Remote Snake API

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General Description 1

- All transmissions will be based on UDP
- All UDP packet will contain plain json data

2 Communications

$\mathbf{2.1}$ Initialisation

- 1. Server wait for a client
- 2. Client can send:

```
{
    "type": "new-game"
```

3. Server can reply:

}

```
{
    "type": "state",
    "game-id": 1,
    "game-over": false,
    "snake": [(1,2),(1,3)],
    "food": [(6,7)]
}
```

Gameplay 2.2

2.2.1**Change Direction**

1. When client is playing a game it can ask to the server to change snake direction:

```
{
    "type": "update",
    "game-id": 1,
    "direction": "left",
}
```

2. Server can reply

```
{
    "type": "state",
    "game-id": 1,
    "game-over": false,
    "snake": [(0,2),(1,2)],
    "food": [(6,7)]
}
```

2.2.2 Refresh Screen

1. When no key are press (the snake is simply going straigth forward). So, client can send:

```
{
    "type": "update",
    "game-id": 1,
    "direction": null
}
```

2. Server can reply:

```
{
    "type": "state",
    "game-id": 1,
    "game-over": false,
    "snake": [(1,2),(0,2)],
    "food": [(6,7)]
}
```

2.2.3 End Game

• When game is over server will send the following state message (switch game-over to true):

```
{
    "type": "state",
    "game-id": 1,
    "game-over": true,
    "snake": [(0,2),(1,2)],
    "food": [(6,7)]
}
```

• No reply is expected from the client and server will be in charge to free local memory