

Battleship API

[Creating a new game](#)

POST /new

Creates a new game of battleship.

Example Response (201)

```
{
  "gameId": "dq5lqs",
  "playerId": "3ah310",
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|----------------------------------------|
| 201 | The game has successfully been created |

[Joining an existing game](#)

POST /join

Joins an existing game of battleship.

Query Parameters

gameId (string)

The id of the game to be joined.

Example Response (200)

```
{
  "playerId": "e4ublr",
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|---------------------------------------|
| 200 | The game has successfully been joined |
| 403 | The game is already full |
| 404 | No game with matching ID found |

[Setting battleships and starting the game](#)

POST /ready

If game status is `pendingStart` (see [status](#)), places the battleships on the board and readies the server to begin the game.

Query Parameters

gameId (string)

The id of the active game.

playerId (string)

The id of the requesting player.

Body Parameters

battleships (object)

The starting configuration of battleships. [See /battleshipTemplate](#) for the specific schema.

HTTP Status Codes

| Status Code | Description |
|-------------|--------------------------------------------------------------------------------|
| 204 | The battleship configuration was accepted |
| 403 | Configuration was attempted after the game was started |
| 404 | Either the game or the player couldn't be found |
| 422 | The battleship configuration was invalid (overlapping ships, ship not on grid) |

Launching Attacks

POST /shoot

If it's the requesting player's turn, launches an attack at a specified target cell. Responds with the result of the attack.

Query Parameters

gameId (string)

The id of the active game.

playerId (string)

The id of the attacking player.

Body Parameters

target (Object)

The target grid cell to be attacked.

target.row (number)

The target row

target.column (number)

The target column

Example Response (200)

```
{
  "isHit": "true",
  "sunkShips": [
    { "row": 3, "column": 2 },
    { "row": 4, "column": 2 },
    { "row": 5, "column": 2 },
  ],
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|---------------------------------------------------------------------------------|
| 200 | The target was successfully attacked |
| 403 | An attack can't be made at this time (game not started, out of turn, game over) |
| 404 | Either the game or the player couldn't be found |
| 422 | The target was invalid (target already attacked, target not on grid) |

Get an empty board

GET /boardTemplate

Returns a 10x10 2D array of `false`'s, representing the board with no battleships.

Example Response (200)

```
{
  "board": [...],
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | Success |

Get the template for battleships

Get /battleshipTemplate

Returns an example of a valid battleship configuration (see [battleship configuration](#)). Returned object contains a 5-grid-cell array, a 4-grid-cell array, two 3-grid-cell arrays, and a 2-grid-cell array.

Example Response (200)

```
{
  "battleships":[
    [
      {"row":0,"column":0},
      {"row":0,"column":1},
      "...",
    ],
    [
      {"row":1,"column":0},
      {"row":1,"column":1},
      "...",
    ],
    "...",
  ]
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | Success |

[Get the game status](#)

GET /status

Returns the current status of the game (pendingStart , hostTurn , guestTurn , gameOver).

Query Parameters

gameId (string)

The id of the active game.

Example Response (200)

```
{
  "status": "pendingStart",
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|--------------------------------|
| 200 | Success |
| 404 | No game with matching ID found |

[Get your game data](#)

GET /data

Returns all game data relevant to the requesting player.
Includes:

- the location of all battleships belonging to the player
- the game board with every occupied cell
- every guess the player has made
- every guess their opponent has made
- every ship sunk belonging to the player
- every ship sunk belonging to their opponent.

Query Parameters

`gameId` (string)

The id of the active game.

`playerId` (string)

The id of the requesting player.

Example Response (200)

```
{
  "data": {
    "ships": [...],
    "board": [...],
    "myGuesses": {
      "{\"row\":0,\"column\":1}": true,
      "{\"row\":0,\"column\":2}": true,
      "...":
    },
    "opponentGuesses": {
      "{\"row\":4,\"column\":2}": false,
      "{\"row\":2,\"column\":3}": false,
      "...":
    },
    "shipsIveLost": [],
    "shipsIveSunk": [],
  }
}
```

HTTP Status Codes

| Status Code | Description |
|-------------|-------------------------------------------------|
| 204 | The battleship configuration was accepted |
| 404 | Either the game or the player couldn't be found |