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# **pybpodgui-api Documentation**

***Release 1.8.2***

**Scientific Software Platform (CF)**

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This **API** makes available a set of functions and properties to allow the manipulation of a [PyBpod GUI](#) project using code.

Check the [Examples](#) section to learn how to use the API.



### 1.1 Create a new project

Create a new project programmatically. The resulting project can be opened with the [PyBpod GUI](#).

```
from pybpodgui_api.models.project import Project

# create the project
proj = Project()
proj.name = 'First project'

# add an experiment to the project
exp = proj.create_experiment()
exp.name = 'First experiment'

# add a setup to the project
stp = exp.create_setup()
stp.name = 'First setup'

# add a board to the project
board = proj.create_board()
board.name = 'First board'
board.serial_port = 'COM3'

# add a subject to the project
subj = proj.create_subject()
subj.name = 'First animal'

# add a new task\protocol to the project
task = proj.create_task()
task.name = 'First task'

exp.task = task # set the task\protocol to the experiment
stp.board = board # set the board to the setup
```

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```
stp += subj # add a subject to the setup

proj.save('my-project-folder')

task.code = 'print("My first protocol")'

proj.save(proj.path)
```

## 1.2 Access to data from a session

The next examples shows how to access the messages in a pybpod session.

```
from pybpodgui_api.models.project import Project

# create the project
proj = Project()
proj.load('my-project-folder')

exp = proj.experiments[0]
stp = exp.setups[0]

for session in stp.sessions:

    for msg in session.messages_history:

        if msg.check_type('INFO'):
            pass
            #Do something

        elif msg.check_type('stderr'):
            pass
            #Do something
```



## 2.1 models.board

### 2.1.1 Overview

Enumerates Bpod board supported operations.

### 2.1.2 Implementation

```
class pybpodgui_api.models.board.Board(project)

    end_run_task_handler()
    freegui()
        Function used to release the processing to update the GUI events
    kill_task()
    load(path)
        Load board data from filesystem

    Variables
        • board_path(str) – Path of the board
        • data(dict) – data object that contains all board info

    log2board(data)
        Function used to update the board log
    pause_trial()
    remove()
    resume_trial()
```

**run\_task\_handler** (*flag=True*)

**save** ()

Save experiment data on filesystem.

**Variables** **parent\_path** (*dict*) – Project path.

**Returns** Dictionary containing the board info to save. If None is returned, it means that there was a failure.

**Return type** *dict*

**start\_run\_task\_handler** ()

**stop\_task** ()

**stop\_thread** ()

**stop\_trial** ()

**INFO\_BOARD\_NAME** = 'BOARD-NAME'

**INFO\_BPODGUI\_VERSION** = 'BPOD-GUI-VERSION'

**INFO\_CREATOR\_NAME** = 'CREATOR-NAME'

**INFO\_EXPERIMENT\_NAME** = 'EXPERIMENT-NAME'

**INFO\_PROJECT\_NAME** = 'PROJECT-NAME'

**INFO\_SETUP\_NAME** = 'SETUP-NAME'

**INFO\_SUBJECT\_NAME** = 'SUBJECT-NAME'

**enabled\_behaviorports**

Get and set the experiment name

**Return type** *list*(Boolean)

**enabled\_bncports**

Get and set enabled bncports

**Return type** *list*(Boolean)

**enabled\_wiredports**

Get and set the enabled wired ports

**Return type** *list*(Boolean)

**name**

Get and set the board name

**Return type** *str*

**net\_port**

Get and set the experiment name

**Return type** *list*(Boolean)

**path**

Get and set the board path

**Return type** *str*

**project**

Get and set the board project

**Return type** *str*

**serial\_port**

Get and set the board serial port

**Return type** `str`

**status**

Get and set the board status

**Return type** `str`

## 2.2 models.experiment

### 2.2.1 Overview

Enumerates Bpod experiment supported operations.

### 2.2.2 Implementation

**class** `pybpodgui_api.models.experiment.Experiment` (*project*)

**create\_setup** ()

Create new instance of setup

**Return type** `Setup`

**load** (*path*)

Load experiment data from filesystem

**Variables**

- **experiment\_path** (*str*) – Path of the experiment
- **data** (*dict*) – data object that contains all experiment info

**Returns** Dictionary with loaded experiment info.

**remove** ()

Remove experiment

**save** ()

Save experiment data on filesystem.

**Variables** **parent\_path** (*dict*) – Project path.

**Returns** Dictionary containing the experiment info to save.

**Return type** `dict`

**name**

Get and set the experiment name

**Return type** `str`

**path**

Get and set the experiment files path

**Return type** `str`

**project**

Get and set the experiment project

**Return type** *Project*

**setups**

Get the experiment setups

**Return type** *list(Setup)*

**task**

Get and set the experiment task

**Return type** *Task*

## 2.3 models.project

### 2.3.1 Overview

Enumerates Bpod project supported operations.

### 2.3.2 Implementation

```
class pybpodgui_api.models.project.Project
```

**create\_board()**

Add an board to the project, and return it.

**Return type** *Board*

**create\_experiment()**

Add an experiment to the project, and return it.

**Return type** *Experiment*

**create\_subject()**

Add an subject to the project, and return it.

**Return type** *Subject*

**create\_task()**

Add an task to the project, and return it.

**Return type** *Task*

**create\_user()**

Add a user bject to the project, and return it.

**Return type** *User*

**find\_board(name)**

Find a board by the name

**Variables** *name* (*str*) – Name of the board to find.

**Return type** *Board*

**find\_session(uuid4)**

**find\_setup\_by\_id(uuid4)**

Find a setup by the id

**Variables** *uuid4* (*str*) – UUID4 of the setup to find.

**Return type** *Setup*

**find\_subject** (*name*)

Find a subject by the name

**Variables** *name* (*str*) – Name of the subject to find.

**Return type** *Subject*

**find\_subject\_by\_id** (*uuid4*)

Find a subject by the name

**Variables** *name* (*str*) – Name of the subject to find.

**Return type** *Subject*

**find\_task** (*name*)

Find a task by the name

**Variables** *name* (*str*) – Name of the task to find.

**Return type** *Task*

**find\_user** (*username*)

**import\_task** (*filepath*, *importdir=False*)

**is\_saved** ()

Verifies if project has changes by doing a recursive checksum on all entities

**Return type** *bool*

**load** (*project\_path*)

Load project from a folder.

**Variables** *project\_path* (*str*) – Full path of the project to load.

**remove\_non\_existing\_repositories** (*path*, *names*)

**save** (*project\_path*)

Save project data on file :param str project\_path: path to project :return: project data saved on settings file

**boards**

Get the list of boards in the project

**Return type** *list(Board)*

**experiments**

Get the list of experiments in the project

**Return type** *list(Experiment)*

**name**

Get and set the project name

**Return type** *str*

**path**

Get and set the project path

**Return type** *str*

**subjects**

Get the list of subjects in the project

**Return type** *list(Subject)*

**tasks**

Get the list of tasks in the project

**Return type** `list(Task)`

**users**

Get the list of users in the project

**Return type** `list(User)`

## 2.4 models.session

### 2.4.1 Overview

Enumerates Bpod session supported operations.

### 2.4.2 Implementation

```
class pybpodgui_api.models.session.Session(setup)
```

```
load(path)
```

**Parameters**

- **session\_path** –
- **data** –

**Returns**

```
load_contents(init_func=None, update_func=None, end_func=None)
```

Parses session history file, line by line and populates the history message on memory.

```
load_info()
```

```
remove()
```

Remove the session from the project

```
save()
```

**Parameters** **parent\_path** –

**Returns**

```
STATUS_READY = 0
```

```
STATUS_SESSION_RUNNING = 1
```

```
board_name
```

Get and set board name

**Return type** `str`

```
board_serial_port
```

Get and set board serial port

**Return type** `str`

```
ended
```

Get and set the end datetime of the session

**Return type** `datetime.datetime`

**filepath**

**is\_running**

**messages\_history**

Get and set the history of messages

**Return type** `list(BaseMessage)`

**name**

Get and set session name

**Return type** `str`

**path**

Get and set path name

**Return type** `str`

**project**

Get the session Project

**Return type** *Project*

**setup**

Get and set the setup

**Return type** *Setup*

**setup\_name**

Get and set setup name

**Return type** `str`

**started**

Get and set the start datetime of the session

**Return type** `datetime.datetime`

**status**

Get and set the session status

**Return type** `str`

**subjects**

Get and set session name

**Return type**

**task**

Get the session Task

**Return type** *Task*

**task\_name**

Get and set the task name

**Return type** `str`

**variables**

## 2.5 models.setup

### 2.5.1 models.board.board\_task

#### 2.5.1.1 Overview

Enumerates Bpod BoardTask supported operations.

#### 2.5.1.2 Implementation

**class** pybpodgui\_api.models.setup.board\_task.**BoardTask**(*setup*)

Represents the association between one board and one task

**Variables** *setup* (*Setup*) – Setup to which the BoardTask belongs to

**create\_variable** (*name=None, value=None, datatype='string'*)

Create a variable

**Return type** *TaskVariable*

**load** (*data*)

Load setup data from filesystem

**Variables**

- **setup\_path** (*str*) – Path of the setup
- **data** (*dict*) – data object that contains all setup info

**save** ()

Save board task data on filesystem.

**Variables** **setup\_path** (*str*) – Setup path.

**Returns** Dictionary containing the board task info to save.

**Return type** *dict*

**board**

Get and set the board

**Return type** *Board*

**task**

Get and set the Task

**Return type** *Task*

**update\_variables**

Get and set a flag that indicates if the variables should be updated at the end of the session

**Return type** *bool*

**variables**

Get and set list of variables

**Return type** *list(TaskVariable)*



## 2.5.2 models.board.taskvariable

### 2.5.2.1 Overview

Enumerates Bpod task variable supported operations.

### 2.5.2.2 Implementation

```
class pybpodgui_api.models.setup.task_variable.TaskVariable(board_task,  
                                                         name=None,  
                                                         value=None,  
                                                         datatype='string')
```

**load**(*data*)  
Load variable data from filesystem  
**Variables** *data* (*dict*) – data object that contains all task variable info

**save**()  
Save variable data on filesystem.  
**Variables** *setup\_path* (*str*) – Setup path.  
**Returns** Dictionary containing the variable info to save.  
**Return type** *dict*

**datatype**  
Get and set variable data type. It can be from type ‘number’ or ‘string’  
**Return type** *str*

**name**  
Get and set variable name  
**Return type** *str*

## 2.5.3 Overview

Enumerates Bpod setup supported operations.

## 2.5.4 Implementation

```
class pybpodgui_api.models.setup.Setup(experiment)
```

**can\_run\_task**()

**clear\_subjects**()

**create\_board\_task**()  
Create a new BoardTask object  
**Return type** *BoardTask*

**create\_session**()  
Create a new Session object  
**Return type** *Session*

**kill\_task()**

**load(path)**

Load setup data from filesystem

**Variables**

- **setup\_path(str)** – Path of the setup
- **data(dict)** – data object that contains all setup info

**pause\_trial()**

**remove()**

Remove the setup from the project

**resume\_trial()**

**save()**

Save setup data on filesystem.

**Variables** **parent\_path(str)** – Experiment path.

**Returns** Dictionary containing the setup info to save.

**Return type** *dict*

**stop\_task()**

**stop\_trial()**

**board**

Get and set setup board

**Return type** *Board*

**detached**

**experiment**

Get and set the experiment

**Return type** *Experiment*

**last\_session**

Get last created session

**Return type** *Session*

**name**

Get and set setup name

**Return type** *str*

**net\_port**

**path**

Get and set setup path

**Return type** *str*

**project**

Get project

**Return type** *Project*

**sessions**

Get the list of sessions

**Return type** `list(Session)`

**status**

**subjects**

Get list of subjects

**Return type** `list(Subject)`

**task**

Get and set task

**Return type** `Task`

**update\_variables**

## 2.6 models.subject

### 2.6.1 Overview

Enumerates Bpod Subject supported operations.

### 2.6.2 Implementation

**class** `pybpodgui_api.models.subject.Subject` (*project*)

**can\_run\_task** ()

**get\_sessions** ()

Get all subject sessions

**Return type** `list(Session)`

**load** (*path*)

Load subject data from filesystem

**Variables**

- **subject\_path** (*str*) – Path of the subject
- **data** (*dict*) – data object that contains all subject info

**post\_load** ()

**remove** ()

Remove the subject from the project

**run\_task** ()

**save** ()

Save subject data on filesystem.

**Variables** **project\_path** (*str*) – Project path.

**Returns** Dictionary containing the setup info to save.

**Return type** `dict`

**toJSON** ()

**name**  
Get and set setup name  
**Return type** `str`

**path**  
Get and set the path  
**Return type** `str`

**project**  
Get and set project  
**Return type** `str`

**setup**  
Get and set project  
**Return type** `str`

## 2.7 models.task

### 2.7.1 Overview

Enumerates Bpod Task supported operations.

### 2.7.2 Implementation

```
class pybpodgui_api.models.task.Task (project=None)
```

```
create_execcmd()  
create_scriptcmd()  
load(path)  
    Load setup data from filesystem  
Variables  
    • task_path (str) – Path of the task  
    • data (dict) – data object that contains all task info  
make_emptyfile()  
    Creates the task folder if does not exists and an empty code file  
make_path()  
    Creates the task folder  
remove()  
    Remove the task from the project.  
save()  
    Save setup data on filesystem.  
Variables  
    • project_path (str) – Project path.  
    • data (dict) – Dictionary where to save the data to.
```

**Returns** Dictionary containing the task info to save.

**Return type** `dict`

**commands**

Get commands

**Return type** `list(TaskCommand)`

**filepath**

Get and set task file path

**Return type** `str`

**name**

Get and set task name

**Return type** `str`

**path**

Get and set task path

**Return type** `str`

**project**

Get and set project

**Return type** *Project*

**trigger\_softcodes**

Get net port

**Return type** `int`



### 3.1 The SWP Team



Scientific Software Platform (Champalimaud Foundation)

The Scientific Software Platform (SWP) from the Champalimaud Foundation provides technical know-how in software engineering and high quality software support for the Neuroscience and Cancer research community at the Champalimaud Foundation.

We typically work on computer vision / tracking, behavioral experiments, image registration and database management.

### 3.2 PyBpod project

**PyBpod** is a python port of the [Bpod Matlab project](#).

All examples and Bpod's state machine and communication logic were based on the original version made available by [Josh Sanders \(Sanworks\)](#).

### 3.3 License

This is Open Source software with a MIT license.

## 3.4 Maintenance team

The current and past members of the **pybpodgui-api** team.

- @cajomferro Carlos Mão de Ferro
- @JBauto João Baúto
- @UmSenhorQualquer Ricardo Ribeiro
- @MicBoucinha Luís Teixeira



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