
pybpodgui-api Documentation

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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

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

value

Get and set variable value

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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