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# **gaiatest Documentation**

*Release master*

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gaiatest is a Python package based on [Marionette](#), which is designed specifically for writing tests against [Gaia](#).



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**Installation**

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You will need a [Marionette enabled Firefox build](#) that you can successfully connect to.

Before installing gaiatest you may want to consider creating a virtual environment:

```
virtualenv env_name
source env_name/bin/activate
```

If you only want to use gaiatest without making changes:

```
pip install gaiatest
```

However, if you want to modify gaiatest, first clone the Gaia repository before running setup.py:

```
git clone https://github.com/mozilla-b2g/gaia.git
cd gaia/tests/python/gaia-ui-tests
python setup.py develop
```





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## Command line interface

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A helpful command line tool is provided for interacting with Gaia. For full usage details run `gcli --help` and for help on a specific command use `gcli <command> --help`.

For example, to unlock the device, set brightness to 100%, connect to an unsecured network, and launch the Settings app:

```
gcli unlock
gcli setsetting screen.brightness 1
gcli connectwifi MozillaGuest
gcli launchapp Settings
```



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## Running tests

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To run tests using `gaiatest`, your command-line will vary a little bit depending on what device you're using. The general format is:

```
gaiatest [options] /path/to/test_foo.py
```

For full usage run:

```
gaiatest --help
```

### 3.1 Risks

The `gaiatest` runner restores the target Firefox OS instance to a 'clean' state before every test. This means that any personal data such as contacts, SMS/MMS messages, emails, photos, videos, music, etc. will be removed. This will include data on the microSD card. The tests may also attempt to initiate outgoing calls, and may connect to services such as cellular data, WiFi, GPS, bluetooth, etc. Therefore, running tests using the `gaiatest` runner may cause unintentional data loss and may incur unexpected charges. In order to acknowledge these risks, you must enter the `acknowledged_risks` key in your test variables file with a true value. Note that this is a JavaScript boolean, so the value `true` should not be enclosed in quotes.

#### 3.1.1 Disabling the Warning

Once you have acknowledged the risks, you will still be presented with a warning every time you run the test suite. If you are absolutely sure that you will only ever run the tests against suitable test devices, this can be disabled by setting an environment variable named `GAIATEST_SKIP_WARNING`. For example, you might run the `gaiatest` command like so:

```
GAIATEST_SKIP_WARNING=1 gaiatest ... params
```

### 3.2 Testing on a device

You must run a build of B2G on the device that has Marionette enabled. The easiest way to do that is to flash your device with a nightly 'engineering' build, like [this one for our reference device](#) (access to these builds is currently restricted).

If you are running the tests on a device connected via ADB (Android Debug Bridge), you must additionally set up port forwarding from the device to your local machine. You can do this by running the command:

```
adb forward tcp:2828 tcp:2828
```

ADB can be downloaded as part of the [Android SDK](#).

### 3.3 Testing on desktop

If you don't have a Firefox OS device, you can download the latest build of the desktop client from [here](#), but make sure you download the appropriate file for your operating system.

- **Linux (32bit):** b2g-[VERSION].multi.linux-i686.tar.bz2
- **Linux (64bit):** b2g-[VERSION].multi.linux-x86\_64.tar.bz2
- **Mac:** b2g-[VERSION].multi.mac64.dmg
- **Windows:** b2g-[VERSION].multi.win32.zip

Once downloaded, you will need to extract the contents to a local folder. `$B2G_HOME` refers to the location of the local folder for the remainder of the documentation.

If a profile is specified when running the tests (recommended), a clone of the profile will be used. This helps to ensure that all tests run in a clean state. However, if you also intend to launch and interact with the desktop build manually, we recommend making a copy of the default profile and using the copy for your tests. The location of the default profile is `$B2G_HOME/gaia/profile`.

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**Note:** The test framework only supports running the tests and B2G instances locally, although in theory it can be used against a running desktop build accessible over the network.

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To run the full suite of tests, use the following command:

```
cd gaia/tests/python/gaia-ui-tests
gaiatest --restart --type b2g --binary $B2G_HOME/b2g-bin --profile $B2G_HOME/gaia/profile \
  --testvars path/to/testvars.json gaiatest/tests/manifest.ini
```

### 3.4 Filtering tests

Tests can be filtered by type, and the types are defined in the manifest files. Tests can belong to multiple types, some types imply others, and some are mutually exclusive - for example a test cannot be both 'online' and 'offline' but a test that is 'lan' is by definition 'online'. Be warned that despite these rules, there is no error checking on types, so you must take care when assigning them. Default types are set in the `[DEFAULT]` section of a manifest file, and are inherited by manifest files referenced by an include.

Here is a list of the types used, and when to use them:

- antenna - Antenna (headphones) must be connected.
- b2g - This means the test is a B2G (Firefox OS) test. All tests must include this type.
- bluetooth - Bluetooth is required.
- camera - Camera is required.
- carrier - Active SIM card with carrier connection is required.
- external - The test requires access to resources outside the host and device, eg the internet.
- flash - Camera flash is required.

- lan - Local area connection (not cell data) is required by these tests (see note below).
- offline - Specifically requires no online connection.
- online - Connection (lan or carrier) is required.
- qemu - These tests require the Firefox OS emulator to run.
- sdcard - Storage device (such as an SD card) must be present.
- wifi - WiFi connection is required.
- sanity - Tests exercising core device features (dialer, camera, browser, sms).

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**Note:** You may be thinking that there is only WiFi or cell data, and why the need for the ‘lan’ test type. Well, these tests aren’t only run on physical devices. We also run them on desktop builds, which share the host computer’s connection. It is for this reason that we need ‘lan’ to indicate a connection that is not cell data. For an example of where online/lan/carrier are used take a look at the browser tests.

---

## 3.5 Test variables

The `--testvars` option is used to pass in local variables, particularly those that cannot be checked into the repository. For example when running the Gaia UI tests, these variables can be your private login credentials, phone number or details of your WiFi connection.

To use it, copy `gaia/tests/python/gaia-ui-tests/gaiatest/testvars_template.json` to a different filename but add it into `.gitignore` so you don’t check it into your repository.

When running your tests add the argument:

```
--testvars /path/to/testvars.json
```

### 3.5.1 Expected variables

- phone\_number - Phone number of the device or array of phone numbers.
- imei - IMEI number of the device or array of IMEI numbers.
- remote\_phone\_number - Phone number that your device can call during the tests (try not to be a nuisance!). Prefix the number with ‘+’ and your international dialing code.
- wifi - These are the settings of your WiFi connection. Currently this supports WPA/WEP/etc. You can add WiFi networks by doing the following (remember to replace `KeyManagement` and the password with the value your network supports):

```
'wifi': {
  'ssid': 'MyNetwork',
  'keyManagement': 'WEP' or 'WPA-PSK',
  'wep': 'MyPassword',
}
```

```
'wifi': {
  'ssid': 'MyNetwork',
  'keyManagement': 'WPA-PSK',
  'psk': 'MyPassword'
}
```

**Note:** Due to [bug 775499](#), WiFi connections via WPA-EAP are not capable at this time.

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- email - Login information used by the email tests. It can contain different types of email accounts:

```
'gmail': {
  'email': '',
  'password': ''
}
```

```
'imap': {
  'email': '',
  'hostname': '',
  'port': '',
  'username': '',
  'password': ''
}
```

```
'activesync': {
  'email': '',
  'hostname': '',
  'username': ''
  'password': '',
}
```

```
'smtp': {
  'hostname': 'smtp.example.com',
  'port': 465,
  'username': 'username',
  'password': 'password'
}
```

- host - Variables associated with the host machine running the tests (as opposed to the target Firefox OS instance).

```
'host': {
  'smtp': {
    'email': 'from@example.com',
    'ssl': false
    'hostname': 'smtp.example.com',
    'port': 25,
    'username': 'username (optional)',
    'password': 'password (optional)'
  }
}
```

- settings - Custom settings to override the Gaia default settings. These will be set before each test run but are not mandatory.

```
'settings': {
  '<setting>': <value>
}
```

When running with no SIM card or offline the timezone may not be automatically updated to match the local timezone. In that case you may need to force the timezone to match the desired timezone using settings in `testvars.json` which will set it during the test setup:

```
'settings': {
  'time.timezone': '<value>',
}
```

```
'time.timezone.user-selected': '<value>'
}
```

- `prefs` - Custom preferences to override the Gecko default preferences. These will be set before each test run but are not mandatory.

```
'prefs': {
  '<name>': <value>
}
```

## 3.6 Test data prerequisites

Occasionally a test will need data on the hardware that cannot be set during the test setup. The following tests need data set up before they can be run successfully:

- `test_ftu` - Requires a single record/contact saved onto the SIM card to test the SIM contact import.





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## Writing tests

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Test writing for Marionette Python tests is described [here](#).

At the moment we don't have a specific style guide. Please follow the prevailing style of the existing tests. Use them as a template for writing your tests. We follow [PEP 8](#) for formatting, although we're pretty lenient on the 80-character line length.



## 5.1 App manager

```
class gaiatest.gaia_test.GaiaApps (marionette)
```

```
    displayed_app
```

```
    get_permission (app_name, permission_name)
```

```
    install (manifest_url)
```

```
    install_package (manifest_url)
```

```
    installed_apps
```

```
    is_app_installed (app_name)
```

```
    kill (app)
```

```
    kill_all ()
```

```
    launch (name, manifest_url=None, entry_point=None, switch_to_frame=True, launch_timeout=None)
```

```
    running_apps (include_system_apps=False)
```

Returns a list of running apps Args:

include\_system\_apps: Includes otherwise hidden System apps in the list

**Returns:** A list of GaiaApp objects representing the running apps.

```
    set_permission (app_name, permission_name, value)
```

```
    set_permission_by_url (manifest_url, permission_name, value)
```

```
    switch_to_displayed_app ()
```

```
    uninstall (manifest_url)
```

## 5.2 Data manager

```
class gaiatest.gaia_test.GaiaData (marionette, testvars=None)
```

```
    active_telephony_state
```

**add\_notification** (*title, options=None*)

**all\_contacts**

**all\_settings**

**bluetooth\_disable** ()

**bluetooth\_enable** ()

**bluetooth\_is\_discoverable**

**bluetooth\_is\_enabled**

**bluetooth\_name**

**clear\_notifications** ()

**clear\_user\_pref** (*name*)

**connect\_to\_cell\_data** ()

**connect\_to\_wifi** (*network=None*)

**current\_audio\_channel**

**delete\_all\_call\_log\_entries** ()

The call log needs to be open and focused in order for this to work.

**delete\_all\_sms** ()

**delete\_sim\_contact** (*moz\_contact\_id, contact\_type='adn'*)

**disable\_cell\_data** ()

**disable\_cell\_roaming** ()

**disable\_wifi** ()

**enable\_cell\_roaming** ()

**enable\_wifi** ()

**fm\_radio\_frequency**

**forget\_all\_networks** ()

**get\_all\_sms** ()

**get\_bool\_pref** (*name*)

Returns the value of a Gecko boolean pref, which is different from a Gaia setting.

**get\_char\_pref** (*name*)

Returns the value of a Gecko string pref, which is different from a Gaia setting.

**get\_int\_pref** (*name*)

Returns the value of a Gecko integer pref, which is different from a Gaia setting.

**get\_setting** (*name*)

**insert\_call\_entry** (*call*)

The call log needs to be open and focused in order for this to work.

**insert\_contact** (*contact*)

**insert\_sim\_contact** (*contact, contact\_type='adn'*)

**is\_antenna\_available**

**is\_cell\_data\_connected**

```

is_cell_data_enabled
is_fm_radio_enabled
is_wifi_connected (network=None)
is_wifi_enabled
kill_active_call ()
kill_conference_call ()
known_networks
media_files
music_files
picture_files
remove_all_contacts ()
sdcard_files (extension='')
send_sms (number, message, skip_verification=False)
set_bool_pref (name, value)
    Sets the value of a Gecko boolean pref, which is different from a Gaia setting.
set_char_pref (name, value)
    Sets the value of a Gecko string pref, which is different from a Gaia setting.
set_int_pref (name, value)
    Sets the value of a Gecko integer pref, which is different from a Gaia setting.
set_setting (name, value)
set_time (date_number)
set_volume (value)
sim_contacts
video_files

```

## 5.3 Device manager

```

class gaiatest.gaia_test.GaiaDevice (marionette, testvars=None, manager=None)

```

```

change_orientation (orientation)
    There are 4 orientation states which the phone can be passed in: portrait-primary(which is the default
    orientation), landscape-primary, portrait-secondary and landscape-secondary
has_mobile_connection
has_wifi
hold_home_button ()
hold_sleep_button ()
is_android_build
is_b2g_running

```

```
is_desktop_b2g
is_emulator
is_locked
is_online
is_screen_enabled
lock()
press_release_volume_up_then_down_n_times(n_times)
press_sleep_button()
restart_b2g()
screen_orientation
start_b2g(timeout=120)
stop_b2g(timeout=5)
touch_home_button()
turn_screen_off()
turn_screen_on()
unlock()
wait_for_b2g_ready(timeout=120)
```

## 5.4 Environment

```
class gaiatest.environment.AttrDict
    Dictionary that allows accessing items as if they were attributes.

class gaiatest.environment.GaiaTestEnvironment (testvars)
    Test environment for Gaia.

    email
        Dictionary of e-mail protocol settings.

    host
        Dictionary of host specific values.

    imei_numbers
        List of IMEI numbers associated with the target instance.

    phone_numbers
        List of phone numbers associated with the target instance.
```

## 5.5 File manager

```
class gaiatest.file_manager.GaiaDeviceFileManager (device, log_level=40)
    File manager for Gaia instance running on a B2G device or emulator.

class gaiatest.file_manager.GaiaFileManager (device, log_level=40)
    Abstract file manager for Gaia.
```

**copy\_file** (*source, destination*)

Copy a file.

**dir\_exists** (*path*)

Return true if path exists and is a directory.

**duplicate\_file** (*path, count*)

Create duplicates of a file on the system and remove original.

**file\_exists** (*path*)

Return true if path exists and is a file.

**list\_items** (*path*)

List items in path.

**make\_dirs** (*filename*)

Make directory structure.

**pull\_file** (*path*)

Returns contents of file.

**push\_file** (*local\_path, remote\_path=None, count=1*)

Push a file to the system.

**remove** (*path*)

Remove file or directory.

**class** gaiatest.file\_manager.**GaiaLocalFileManager** (*device, log\_level=40*)

File manager for Gaia instance running locally such as desktop B2G.

## 5.6 Test cases

**class** gaiatest.gaia\_test.**GaiaTestCase** (*\*args, \*\*kwargs*)

**cleanup\_data** ()

**cleanup\_gaia** (*full\_reset=True*)

**cleanup\_storage** ()

Remove all files from the device's storage paths

**connect\_to\_local\_area\_network** ()

**disable\_all\_network\_connections** ()

**modify\_prefs** (*prefs*)

Hook to modify the default preferences before they're applied.

**Parameters** **prefs** – dictionary of the preferences that would be applied.

**Returns** modified dictionary of the preferences to be applied.

This method provides the ability for test cases to override the default preferences before they're applied. To use it, define the method in your test class and return a modified dictionary of preferences:

```
class TestModifyPrefs(GaiaTestCase):

    def modify_prefs(self, prefs):
        prefs['foo'] = 'bar'
        return prefs
```

```
def test_modify_prefs(self):
    self.assertEqual('bar', self.data_layer.get_char_pref('foo'))
```

**modify\_settings** (*settings*)

Hook to modify the default settings before they're applied.

**Parameters** **settings** – dictionary of the settings that would be applied.

**Returns** modified dictionary of the settings to be applied.

This method provides the ability for test cases to override the default settings before they're applied. To use it, define the method in your test class and return a modified dictionary of settings:

```
class TestModifySettings(GaiaTestCase):

    def modify_settings(self, settings):
        settings['foo'] = 'bar'
        return settings

    def test_modify_settings(self):
        self.assertEqual('bar', self.data_layer.get_setting('foo'))
```

**pull\_video\_capture** ()

**push\_resource** (*filename, remote\_path=None, count=1*)

**resource** (*filename*)

**setUp** ()

**set\_default\_settings** ()

**start\_video\_capture** ()

**stop\_video\_capture** ()

**tearDown** ()

**wait\_for\_condition** (*method, timeout=None, message=None*)



## 6.1 Base

```
class gaiatest.apps.base.Base (marionette)

    DEFAULT_APP_HOSTNAME = '.gaiamobile.org'
    DEFAULT_PROTOCOL = 'app://'
    ally_select (match_string)
    find_select_item (match_string)
    is_displayed
    is_element_displayed (by, locator)
    is_element_present (by, locator)
    keyboard
    launch (launch_timeout=None)
    manifest_url
    select (match_string, tap_close=True)
    tap_element_from_system_app (element=None, add_statusbar_height=False, x=None,
                                   y=None)
    wait_for_select_closed (by, locator)
    wait_to_be_displayed ()
    wait_to_not_be_displayed ()

class gaiatest.apps.base.PageRegion (marionette, element)
```

## 6.2 Browser

### 6.2.1 Regions

### 6.3 Calendar

```

class gaiatest.apps.calendar.app.Calendar (marionette)
    Bases: gaiatest.apps.base.Base

    class Event (marionette, element)
        Bases: gaiatest.apps.base.PageRegion

        ally_click ()

        location

        title

    class Calendar.Settings (marionette, element)
        Bases: gaiatest.apps.base.PageRegion

        wait_for_ally_calendar_unchecked (timeout=None)

        wait_for_calendar_unchecked (timeout=None)

Calendar.ally_click_add_event_button ()
Calendar.ally_click_close_settings ()
Calendar.ally_click_create_account_back ()
Calendar.ally_click_day_display_button ()
Calendar.ally_click_day_view_event ()
Calendar.ally_click_header (header, selector)
Calendar.ally_click_modify_account_back ()
Calendar.ally_click_month_display_button ()
Calendar.ally_click_other_day (next, previous)
Calendar.ally_click_settings ()
Calendar.ally_click_week_display_button ()
Calendar.ally_create_event (title)
Calendar.ally_wheel_to_next_month ()
Calendar.ally_wheel_to_previous_month ()
Calendar.account (preset)
Calendar.accounts
Calendar.current_month_day
Calendar.current_month_year
Calendar.displayed_events_in_day_view (data_date)
Calendar.displayed_events_in_month_view ()
Calendar.displayed_events_in_week_view (data_date)

```

```
Calendar.event (title)
Calendar.event_list_date
Calendar.events
Calendar.flick_to_next_month()
Calendar.flick_to_previous_month()
Calendar.launch()
Calendar.name = 'Calendar'
Calendar.settings
Calendar.tap_add_event_button()
Calendar.tap_day_display_button()
Calendar.tap_week_display_button()
Calendar.wait_for_events (number_to_wait_for=1)
Calendar.wait_for_new_event()
Calendar.wait_fot_settings_drawer_animation()
```

### 6.3.1 Regions

```
class gaiatest.apps.calendar.regions.event.NewEvent (marionette)
    Bases: gaiatest.apps.calendar.app.Calendar
    ally_click_close_button()
    ally_click_save_event()
    ally_fill_event_location (location)
    ally_fill_event_title (title)
    fill_event_location (location)
    fill_event_title (title)
    tap_save_event()
    wait_for_panel_to_load()
```

## 6.4 Clock

```
class gaiatest.apps.clock.app.Clock (marionette)
    Bases: gaiatest.apps.base.Base
    launch()
    name = 'Clock'
    switch_view (view_name)
```

## 6.4.1 Regions

**class** `gaiatest.apps.clock.regions.alarm.Alarm` (*marionette*)

Bases: `gaiatest.apps.base.PageRegion`

**class** `AlarmItem` (*marionette, element*)

Bases: `gaiatest.apps.base.PageRegion`

**is\_alarm\_active**

**label**

**tap**()

**tap\_checkbox**()

**time**

**wait\_for\_checkbox\_to\_change\_state** (*value*)

`Alarm.alarm_items`

`Alarm.banner_notification`

`Alarm.dismiss_banner`()

`Alarm.tap_new_alarm`()

## 6.5 Contacts

**class** `gaiatest.apps.contacts.app.Contacts` (*marionette*)

Bases: `gaiatest.apps.base.Base`

**class** `Contact` (*marionette, element*)

Bases: `gaiatest.apps.base.PageRegion`

**ally\_click** (*return\_class='ContactDetails'*)

**full\_name**

**image\_data\_group**

**name**

**tap** (*return\_class='ContactDetails'*)

`Contacts.ally_click_new_contact`()

`Contacts.contact` (*name*)

`Contacts.contacts`

`Contacts.entry_point` = 'contacts'

`Contacts.is_favorites_list_displayed`

`Contacts.is_ice_list_icon_displayed`

`Contacts.is_no_contacts_message_displayed`

`Contacts.launch`()

`Contacts.manifest_url` = 'app://communications.gaiamobile.org/manifest.webapp'

`Contacts.name` = 'Contacts'

```
Contacts.open_ice_contact_list()
Contacts.status_message
Contacts.switch_to_contacts_frame()
Contacts.tap_confirm_delete()
Contacts.tap_delete()
Contacts.tap_export()
Contacts.tap_new_contact()
Contacts.tap_select_all()
Contacts.tap_settings()
Contacts.wait_for_contacts (number_to_wait_for=1)
Contacts.wait_for_ice_contact_shown()
```

### 6.5.1 Regions

```
class gaiatest.apps.contacts.regions.contact_details.ContactDetails (marionette)
    Bases: gaiatest.apps.base.Base
```

```
    ally_click_edit()
    add_remove_text
    comments
    full_name
    image_style
    phone_number
    phone_numbers
    tap_add_remove_favorite()
    tap_back()
    tap_edit()
    tap_phone_number()
    tap_send_sms()
```

```
class gaiatest.apps.contacts.regions.contact_form.ContactForm (marionette)
    Bases: gaiatest.apps.base.Base
```

```
    city
    comment
    country
    email
    family_name
    given_name
    name = 'Contacts'
    phone
```

```

    picture_style
    street
    tap_comment ()
    tap_picture ()
    type_city (value)
    type_comment (value)
    type_country (value)
    type_email (value)
    type_family_name (value)
    type_given_name (value)
    type_phone (value)
    type_street (value)
    type_zip_code (value)
    wait_for_image_to_load ()
    zip_code
class gaiatest.apps.contacts.regions.contact_form.EditContact (marionette)
    Bases: gaiatest.apps.contacts.regions.contact_form.ContactForm
    tap_cancel ()
    tap_cancel_delete ()
    tap_confirm_delete ()
    tap_delete ()
    tap_update (return_class='ContactDetails')
    wait_for_update_button_enabled ()
class gaiatest.apps.contacts.regions.contact_form.NewContact (marionette)
    Bases: gaiatest.apps.contacts.regions.contact_form.ContactForm
    ally_click_done (return_contacts=True)
    switch_to_new_contact_form ()
    tap_done (return_contacts=True)
    wait_for_done (return_contacts=True)
    wait_for_new_contact_form_to_load ()
class gaiatest.apps.contacts.regions.contact_import_picker.ContactImportPicker (marionette)
    Bases: gaiatest.apps.base.Base
    tap_first_friend ()
    tap_import_button (wait_for_import=True)
    tap_select_all ()
class gaiatest.apps.contacts.regions.gmail.GmailLogin (marionette)
    Bases: gaiatest.apps.base.Base

```

```

gmail_login (user, passwd)
switch_to_gmail_login_frame ()
tap_grant_access ()

```

```

class gaiatest.apps.contacts.regions.settings_form.ConfirmationView (marionette)
    Bases: gaiatest.apps.base.Base
    error_message

```

```

class gaiatest.apps.contacts.regions.settings_form.SettingsForm (marionette)
    Bases: gaiatest.apps.base.Base
    disable_order_by_last_name ()
    enable_order_by_last_name ()
    gmail_imported_contacts
    is_error_message_displayed
    is_gmail_import_enabled
    is_gmail_import_service_in_error
    is_outlook_import_enabled
    is_outlook_import_service_in_error
    tap_back_from_import_contacts ()
    tap_delete_contacts ()
    tap_done ()
    tap_export_contacts ()
    tap_export_to_sd ()
    tap_export_to_sim ()
    tap_import_contacts ()
    tap_import_from_gmail ()
    tap_import_from_sdcard ()
    tap_import_from_sim ()
    tap_set_ice_contact ()

```

## 6.6 Cost control

```

class gaiatest.apps.cost_control.app.CostControl (marionette)
    Bases: gaiatest.apps.base.Base
    disable_mobile_data_tracking ()
    enable_wifi_data_tracking ()
    is_mobile_data_tracking_on
    is_wifi_data_tracking_on
    mobile_data_usage_figure

```

```

name = 'Usage'
run_ftu_accepting_defaults ()
    Complete the 3 steps of the Usage app's FTU accepting all default values.
switch_to_ftu ()
tap_settings ()
wifi_data_usage_figure

```

## 6.6.1 Regions

```

class gaiatest.apps.cost_control.regions.ftu_step1.FTUStep1 (marionette)
    Bases: gaiatest.apps.base.Base
    tap_next ()
class gaiatest.apps.cost_control.regions.ftu_step2.FTUStep2 (marionette)
    Bases: gaiatest.apps.cost_control.app.CostControl
    select_reset_report_value (value)
    tap_next ()
class gaiatest.apps.cost_control.regions.ftu_step3.FTUStep3 (marionette)
    Bases: gaiatest.apps.cost_control.app.CostControl
    enable_data_alert ()
    is_data_alert_switch_checked
    select_when_use_is_above_unit_and_value (unit, value)
    tap_lets_go ()
class gaiatest.apps.cost_control.regions.settings.Settings (marionette)
    Bases: gaiatest.apps.base.Base
    enable_data_alert_switch ()
    is_data_alert_switch_checked
    reset_mobile_usage ()
    reset_wifi_usage ()
    select_when_use_is_above_unit_and_value (unit, value)
    switch_to_settings_iframe ()
    tap_confirm_reset ()
    tap_done ()

```

## 6.7 Email

```

class gaiatest.apps.email.app.Email (marionette)
    Bases: gaiatest.apps.base.Base
    ally_click_manual_setup ()
    ally_navigate_to_manual_setup (name, email)

```



```

basic_setup_email (name, email, password)
delete_email_account (index)
class email_exists (app, subject)
    Bases: object
Email.emails_list_header_locator = ('css selector', 'msg-list-header')
Email.header
Email.mails
Email.name = 'E-Mail'
Email.setup_IMAP_email (imap, smtp)
Email.setup_active_sync_email (active_sync)
Email.tap_email_subject (subject)
Email.tap_manual_setup ()
Email.toolbar
Email.wait_for_email (subject, timeout=120)
Email.wait_for_emails_to_sync ()
Email.wait_for_message_list ()
Email.wait_for_search_textbox_displayed ()
class gaiatest.apps.email.app.Header (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    ally_click_menu ()
    is_compose_visible
    is_menu_visible
    label
    tap_compose ()
    tap_menu ()
class gaiatest.apps.email.app.Message (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    scroll_to_message ()
    senders_email
    subject
class gaiatest.apps.email.app.ToolBar (marionette)
    Bases: gaiatest.apps.base.Base
    ally_click_settings ()
    is_ally_visible
    is_edit_visible
    is_refresh_visible
    is_search_visible

```

```

is_settings_visible
is_visible
tap_edit()
tap_refresh()
tap_search()
tap_settings()

```

## 6.7.1 Regions

**class** `gaiatest.apps.email.regions.new_email.NewEmail` (*marionette*)

Bases: `gaiatest.apps.base.Base`

```

tap_send()
type_bcc(value)
type_body(value)
type_cc(value)
type_subject(value)
type_to(value)

```

**class** `gaiatest.apps.email.regions.read_email.ReadEmail` (*marionette*)

Bases: `gaiatest.apps.base.Base`

```

approve_delete()
body
cancel_delete()
cancel_move()
cancel_reply()
manifest_url = 'app://email.gaiamobile.org/manifest.webapp'
senders_email
subject
tap_delete_button()
tap_mark_button()
tap_move_button()
tap_reply_button()
tap_star_button()
wait_for_senders_email_displayed()

```

**class** `gaiatest.apps.email.regions.settings.DeleteConfirmation` (*marionette*)

Bases: `gaiatest.apps.base.Base`

```

ally_click_delete()
tap_delete()

```

```

class gaiatest.apps.email.regions.settings.EmailAccountSettings (marionette)
    Bases: gaiatest.apps.base.Base

    ally_click_delete()

    tap_delete()

class gaiatest.apps.email.regions.settings.Settings (marionette)
    Bases: gaiatest.apps.base.Base

    class Account (marionette, element)
        Bases: gaiatest.apps.base.PageRegion

        ally_click()

        tap()

    Settings.email_accounts

class gaiatest.apps.email.regions.setup.ManualSetupEmail (marionette)
    Bases: gaiatest.apps.base.Base

    check_for_emails_interval (value)

    name = 'E-Mail'

    select_account_type (value)

    tap_account_prefs_next ()

    tap_continue ()

    tap_next ()

    type_activesync_hostname (value)

    type_activesync_name (value)

    type_email (value)

    type_imap_hostname (value)

    type_imap_name (value)

    type_imap_password (value)

    type_imap_port (value)

    type_name (value)

    type_password (value)

    type_smtp_hostname (value)

    type_smtp_name (value)

    type_smtp_password (value)

    type_smtp_port (value)

    wait_for_setup_complete ()

class gaiatest.apps.email.regions.setup.SetupEmail (marionette)
    Bases: gaiatest.apps.base.Base

    tap_account_prefs_next ()

    tap_continue ()

    tap_next ()

```

```
type_email (value)
type_name (value)
wait_for_setup_complete ()
```

## 6.8 Emergency call

```
class gaiatest.apps.emergency_call.app.EmergencyCall (marionette)
    Bases: gaiatest.apps.base.Base
    is_emergency_call_only_title_displayed
    is_emergency_dialer_keypad_displayed
    keypad
    switch_to_emergency_call_frame ()
```

## 6.9 FM radio

```
class gaiatest.apps.fmradio.app.FmRadio (marionette)
    Bases: gaiatest.apps.base.Base
    class FavoriteChannel (marionette, element)
        Bases: gaiatest.apps.base.PageRegion
        remove ()
        text
    FmRadio.airplane_warning_text
    FmRadio.airplane_warning_title
    FmRadio.favorite_channels
    FmRadio.flick_frequency_dialer_up ()
    FmRadio.frequency
    FmRadio.is_power_button_on
    FmRadio.launch (airplane_mode=False)
    FmRadio.manifest_url = 'app://fm.gaiamobile.org/manifest.webapp'
    FmRadio.name = 'FM Radio'
    FmRadio.tap_add_favorite ()
    FmRadio.tap_next ()
    FmRadio.tap_power_button ()
    FmRadio.tap_previous ()
    FmRadio.wait_for_radio_off ()
```

## 6.10 First time use

```

class gaiatest.apps.ftu.app.Ftu(marionette)
    Bases: gaiatest.apps.base.Base

    ally_click_language(language)
    ally_click_next()
    ally_click_next_to_cell_data_section()
    ally_click_next_to_finish_section()
    ally_click_next_to_firefox_accounts_section()
    ally_click_next_to_geolocation_section()
    ally_click_next_to_import_contacts_section()
    ally_click_next_to_privacy_browser_section()
    ally_click_next_to_timezone_section()
    ally_click_next_to_welcome_browser_section()
    ally_click_next_to_wifi_section()
    ally_click_skip_tour()
    ally_connect_to_wifi(network_ssid, password, key_management=None)
    ally_disable_geolocation()
    ally_enable_data()
    ally_set_timezone_city(city)
    ally_set_timezone_continent(continent)
    connect_to_wifi(network_ssid, password, key_management=None)
    count_imported_contacts
    disable_geolocation()
    enable_data()
    enable_metrics_basic()
    enable_metrics_enhanced()
    enable_metrics_none()
    enter_email_address(email)
    find_wifi_network(network_ssid)
    is_geolocation_enabled
    is_lets_go_button_visible
    is_metrics_basic_enabled
    is_metrics_enhanced_enabled
    is_metrics_none_enabled
    is_take_tour_button_visible
    languages_list

```

```
launch ()
name = 'FTU'
run_ftu_setup_with_default_values ()
selected_language
set_timezone_city (city)
set_timezone_continent (continent)
step1_header_text
step2_header_text
step3_header_text
step4_header_text
step5_header_text
step6_header_text
tap_back ()
tap_import_from_sim ()
tap_language (language)
tap_lets_go_button ()
tap_next ()
tap_next_to_cell_data_section ()
tap_next_to_finish_section ()
tap_next_to_firefox_accounts_section ()
tap_next_to_geolocation_section ()
tap_next_to_import_contacts_section ()
tap_next_to_late_customization_section ()
tap_next_to_privacy_browser_section ()
tap_next_to_timezone_section ()
tap_next_to_welcome_browser_section ()
tap_next_to_wifi_section ()
tap_skip_tour ()
tap_take_tour ()
tap_tour_next ()
timezone_title
wait_for_contacts_imported ()
wait_for_finish_tutorial_section ()
wait_for_networks_available ()
```

## 6.11 Gallery

```

class gaiatest.apps.gallery.app.Gallery (marionette)
    Bases: gaiatest.apps.base.Base

    class Thumbnail (marionette, element, index)
        Bases: gaiatest.apps.base.PageRegion

        absolute_image_size
            The dimensions of the image on disk, is drawn from the image's metadata

        tap()

Gallery.are_gallery_items_displayed
Gallery.empty_gallery_text
Gallery.empty_gallery_title
Gallery.gallery_items_number
Gallery.launch (empty=False)
Gallery.name = 'Gallery'
Gallery.switch_to_camera()
Gallery.switch_to_multiple_selection_view()
Gallery.tap_first_gallery_item()
Gallery.thumbnails
Gallery.wait_for_files_to_load (files_number)
Gallery.wait_for_overlay_to_show()
Gallery.wait_for_thumbnail_view_to_load()
Gallery.wait_for_thumbnails_to_load()

```

### 6.11.1 Regions

```

class gaiatest.apps.gallery.regions.crop_view.CropView (marionette)
    Bases: gaiatest.apps.base.Base

    tap_crop_done()

class gaiatest.apps.gallery.regions.edit_photo.EditPhoto (marionette)
    Bases: gaiatest.apps.base.Base

    class Effect (marionette, element)
        Bases: gaiatest.apps.base.PageRegion

        tap()

EditPhoto.effects
EditPhoto.tap_edit_crop_button()
EditPhoto.tap_edit_effects_button()
EditPhoto.tap_edit_save_button()
EditPhoto.tap_edit_tool_apply_button()

```

```
EditPhoto.tap_portrait_crop()
```

```
class gaiatest.apps.gallery.regions.fullscreen_image.FullscreenImage (marionette)  
    Bases: gaiatest.apps.base.Base
```

This is not the actual image file - it is a blob of the image file in storage

```
current_image_frame  
current_image_size_height  
current_image_size_width  
current_image_source  
double_tap_image()  
flick_to_next_image()  
flick_to_previous_image()  
go_back()  
is_photo_toolbar_displayed  
photo_toolbar_options  
photo_toolbar_width  
tap_confirm_deletion_button()  
tap_delete_button()  
tap_edit_button()  
tap_switch_to_camera()
```

## 6.12 Homescreen

```
class gaiatest.apps.homescreen.app.Homescreen (marionette)  
    Bases: gaiatest.apps.base.Base
```

```
class GaiaAppIcon (marionette, element)  
    Bases: gaiatest.apps.base.PageRegion  
  
    activate_edit_mode()  
  
    is_app_installed  
  
    is_displayed  
  
    manifest_url  
  
    move_to (html_element)  
  
    tap_icon()
```

```
Homescreen.app_elements
```

```
Homescreen.bookmark (bookmark_title)
```

```
Homescreen.delete_app (app_manifest)
```

```
Homescreen.installed_app (app_manifest)
```

```
Homescreen.is_app_installed (app_manifest)  
    Checks whether app is installed
```



```

Homescreen.is_at_topmost_position
Homescreen.move_app_to_position (app_position, to_position)
Homescreen.name = 'Default Home Screen'
Homescreen.number_of_columns
Homescreen.scroll_to_icon (icon_position=0)
Homescreen.visible_apps
Homescreen.wait_for_app_icon_not_present (app_manifest)
Homescreen.wait_for_app_icon_present (app_manifest)
Homescreen.wait_for_bookmark_icon_not_present (bookmark_title)
Homescreen.wait_for_number_of_apps (number_of_apps=1)

```

### 6.12.1 Regions

```

class gaiatest.apps.homescreen.regions.bookmark_menu.BookmarkMenu (marionette)
    Bases: gaiatest.apps.base.Base
    manifest_url = 'app://bookmark.gaiamobile.org/manifest.webapp'
    name = 'Bookmark'
    tap_add_bookmark_to_home_screen_dialog_button ()
    type_bookmark_title (value)

class gaiatest.apps.homescreen.regions.confirm_dialog.ConfirmDialog (marionette)
    Bases: gaiatest.apps.base.Base
    tap_confirm (bookmark=False)

class gaiatest.apps.homescreen.regions.confirm_install.ConfirmInstall (marionette)
    Bases: gaiatest.apps.base.Base
    tap_confirm ()

class gaiatest.apps.homescreen.regions.permission_dialog.PermissionDialog (marionette)
    Bases: gaiatest.apps.base.Base
    permission_dialog_message
    tap_to_confirm_permission ()
    tap_to_dismiss_permission ()
    wait_for_permission_dialog_displayed ()

```

## 6.13 Keyboard

```

class gaiatest.apps.keyboard.app.Keyboard (marionette)
    Bases: gaiatest.apps.base.Base

```

There are two underlying strategies in this class;

- send() method which uses logic to traverse the keyboard to type the string sent to it. Send should be used in tests where the layout of the keyboard is not tested and only string input is important

- `tap_x()` or anything not `send()` methods which do not use logic to change keyboard panels. Tap should be used where the keyboard is expected to open with that key visible

The methods in this class employ a lot of aggressive frame switching to the keyboard and back to the displayed app because it predominantly acts as a utility class and thus it works best when the main focus of the test is on the web app rather than the keyboard itself.

`ally_backspace_key_name`

`ally_backspace_key_role`

`ally_candidate_panel_name`

`ally_dismiss_suggestions_button_name`

`ally_dismiss_suggestions_button_role`

`ally_enter_key_name`

`ally_enter_key_role`

`ally_first_predictive_word_click()`

`ally_first_predictive_word_name`

`ally_first_predictive_word_role`

`ally_space_key_name`

`ally_space_key_role`

`ally_suggestions_container_role`

`choose_extended_character` (*long\_press\_key*, *selection*, *movement=True*)

`current_keyboard`

`dismiss()`

`enable_caps_lock()`

`is_keyboard_displayed`

`keyboard_table` = ['english', 'dvorak', 'otherlatins', 'cyrillic', 'arabic', 'hebrew', 'zhuyin', 'pinyin', 'greek', 'japanese']

`lookup_table` = {'!': '\xc2\xa1', '\$': '\xe2\x82\xac\xc2\xa3\xc2\xa5', '0': '\xc2\xba', '?': '\xc2\xbf', 'A': '\xc3\x81\xc3\x82'}.

`name` = 'Keyboard'

`send` (*string*)

`switch_keyboard_language` (*lang\_code*)

`switch_to_keyboard` (*focus=False*)

`tap_backspace()`

`tap_dotcom()`

`tap_enter()`

`tap_first_predictive_word()`

`tap_keyboard_language_key()`

`tap_shift()`

`tap_space()`

`tap_suggestion` (*word*)

## 6.14 Lockscreen

**class** `gaiatest.apps.lockscreen.app.LockScreen` (*marionette*)

Bases: `gaiatest.apps.base.Base`

`ally_click_camera_button()`

`ally_click_unlock_button()`

`notifications`

`switch_to_frame()`

`time`

`time_in_datetime`

`unlock()`

`unlock_to_camera()`

`unlock_to_emergency_call()`

`unlock_to_homescreen_using_passcode` (*passcode*)

`unlock_to_passcode_pad()`

`wait_for_lockscreen_not_visible()`

`wait_for_notification()`

**class** `gaiatest.apps.lockscreen.app.Notification` (*marionette, element*)

Bases: `gaiatest.apps.base.PageRegion`

`content`

`is_visible`

`title`

### 6.14.1 Regions

**class** `gaiatest.apps.lockscreen.regions.passcode_pad.PasscodePad` (*marionette*)

Bases: `gaiatest.apps.base.Base`

`tap_emergency_call()`

`type_passcode` (*passcode*)

## 6.15 Messages

**class** `gaiatest.apps.messages.app.Messages` (*marionette*)

Bases: `gaiatest.apps.base.Base`

**class** `Thread` (*marionette, element*)

Bases: `gaiatest.apps.base.PageRegion`

`choose()`

`is_draft_icon_displayed`

`open()`

```
Messages.create_new_message (recipients, message)
Messages.delete_selection ()
Messages.draft_threads
Messages.enter_select_mode ()
Messages.is_in_select_mode
Messages.launch ()
Messages.manifest_url = 'app://sms.gaiamobile.org/manifest.webapp'
Messages.name = 'Messages'
Messages.tap_create_new_message ()
Messages.tap_delete_button ()
Messages.tap_first_received_message ()
Messages.tap_settings ()
Messages.tap_thread_options ()
Messages.threads
Messages.wait_for_banner_to_hide ()
Messages.wait_for_header_to_fully_appear ()
Messages.wait_for_message_list ()
Messages.wait_for_message_received (timeout=180)
```

### 6.15.1 Regions

```
class gaiatest.apps.messages.regions.activities.Activities (marionette)
    Bases: gaiatest.apps.base.Base
        confirm_delete_message ()
        tap_add_subject ()
        tap_add_to_contact ()
        tap_create_new_contact ()
        tap_delete_message ()
        tap_forward_message ()
        tap_report ()
        tap_settings ()

class gaiatest.apps.messages.regions.message_thread.Message (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
        has_attachments
        id
        long_press_message ()
        open_report ()
        tap_attachment ()
```

**text**

**class** `gaiatest.apps.messages.regions.message_thread.MessageThread` (*marionette*)

Bases: `gaiatest.apps.base.Base`

**all\_messages**

**header\_text**

**received\_messages**

**sent\_messages**

**tap\_back\_button**()

**tap\_call**()

**tap\_header**()

**wait\_for\_received\_messages** (*interval=5, timeout=300*)

**class** `gaiatest.apps.messages.regions.messaging_settings.MessagingSettings` (*marionette*)

Bases: `gaiatest.apps.base.Base`

**is\_messaging\_settings\_displayed**()

**class** `gaiatest.apps.messages.regions.new_message.NewMessage` (*marionette*)

Bases: `gaiatest.apps.messages.app.Messages`

**first\_recipient\_name**

**first\_recipient\_number\_attribute**

**go\_back**()

**has\_attachment**

**is\_recipient\_name\_editable**

**is\_send\_button\_enabled**

**message**

**number\_of\_recipients**

**recipient\_css\_class**

**recipients**

**save\_as\_draft**()

**tap\_add\_recipient**()

**tap\_attachment**()

**tap\_image\_attachment**()

**tap\_message**()

**tap\_options**()

**tap\_recipient\_name**()

**tap\_recipient\_section**()

**tap\_send** (*timeout=120*)

**type\_message** (*value*)

**type\_phone\_number** (*value*)

```
wait_for_message_input_displayed()
wait_for_recipients_displayed()
wait_for_resizing_to_finish()
wait_for_subject_input_displayed()
```

## 6.16 Music

```
class gaiatest.apps.music_oga.app.Music(marionette)
    Bases: gaiatest.apps.base.Base
    ally_click_albums_tab()
    empty_music_text
    empty_music_title
    launch()
    manifest_url = 'app://music-oga.gaiamobile.org/manifest.webapp'
    name = 'Music OGA'
    tabs
    tap_albums_tab()
    tap_artists_tab()
    tap_songs_tab()
    views
    wait_for_empty_message_to_load()
    wait_for_music_tiles_displayed()
    wait_for_view_displayed(view_name)
```

### 6.16.1 Regions

```
class gaiatest.apps.music.regions.list_view.AlbumsView(marionette)
    Bases: gaiatest.apps.music.regions.list_view.ListView

class gaiatest.apps.music.regions.list_view.ArtistsView(marionette)
    Bases: gaiatest.apps.music.regions.list_view.ListView

class gaiatest.apps.music.regions.list_view.ListView(marionette)
    Bases: gaiatest.apps.base.Base
    media

class gaiatest.apps.music.regions.list_view.Media(marionette, element, _ac-
    tive_view_locator)
    Bases: gaiatest.apps.base.PageRegion
    ally_click_first_album()
    switch_to_active_view()
    tap_first_album()
```

```

    tap_first_artist()
    tap_first_song()
class gaiatest.apps.music.regions.list_view.SongsView (marionette)
    Bases: gaiatest.apps.music.regions.list_view.ListView
class gaiatest.apps.music.regions.player_view.PlayerView (marionette)
    Bases: gaiatest.apps.base.Base
    is_player_playing()
    player_current_timestamp
    player_elapsed_time
    star_rating
    tap_cover_in_player_view()
    tap_forward()
    tap_play()
    tap_share_button()
    tap_star (rate)
        give rating. (After tapping the cover to make the ratings overlay appear)
class gaiatest.apps.music.regions.sublist_view.AlbumSublistView (marionette)
    Bases: gaiatest.apps.music.regions.sublist_view.SublistView
class gaiatest.apps.music.regions.sublist_view.ArtistSublistView (marionette)
    Bases: gaiatest.apps.music.regions.sublist_view.SublistView
class gaiatest.apps.music.regions.sublist_view.SublistView (marionette)
    Bases: gaiatest.apps.base.Base
    switch_to_active_view()
    tap_first_song()
    wait_sublist_view_draw()

```

## 6.17 Persona

```

class gaiatest.apps.persona.app.Persona (marionette)
    Bases: gaiatest.apps.base.Base
    login (email, password)
    switch_to_persona_frame()
    tap_continue()
    tap_returning()
    type_email (value)
    type_password (value)
    wait_for_persona_to_load()

```

## 6.18 Phone

```
class gaiatest.apps.phone.app.Phone (marionette)
    Bases: gaiatest.apps.base.Base

    ally_click_call_log_toolbar_button ()
    ally_click_contacts ()
    ally_click_keypad_toolbar_button ()
    ally_hang_up ()
    ally_make_call (phone_number)
    ally_make_call_and_hang_up (phone_number)
        Just makes a call and hangs up using the screen reader. Does not do any assertions.
    call_log
    call_screen
    confirmation_dialog_text
    entry_point = 'dialer'
    keypad
    launch ()
    make_call_and_hang_up (phone_number)
        Just makes a call and hangs up. Does not do any assertions.
    manifest_url = 'app://communications.gaiamobile.org/manifest.webapp'
    name = 'Phone'
    tap_call_log_toolbar_button ()
    tap_contacts ()
    tap_keypad_toolbar_button ()
    wait_for_confirmation_dialog ()
```

### 6.18.1 Regions

```
class gaiatest.apps.phone.regions.attention_screen.AttentionScreen (marionette)
    Bases: gaiatest.apps.base.Base

    message

class gaiatest.apps.phone.regions.call_log.CallLog (marionette)
    Bases: gaiatest.apps.phone.app.Phone

    ally_click_all_calls_tab ()
    call_list
    groups_list
    header_text
    is_all_calls_tab_selected
    is_missed_calls_tab_selected
```



```

no_logs_message
tap_all_calls_tab()
tap_delete_button()
tap_delete_confirmation_button()
tap_edit_button()
tap_missed_calls_tab()
tap_select_all_button()
class gaiatest.apps.phone.regions.call_log.LogEntries (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    call_type
    is_checked
    phone_number
    retry_count
class gaiatest.apps.phone.regions.call_log.LogGroups (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    group_calls
    header_text
class gaiatest.apps.phone.regions.call_screen.CallScreen (marionette)
    Bases: gaiatest.apps.phone.app.Phone
    MAX_NUMBER_OF_DISPLAYED_DIGITS = 22
    ally_click_hang_up()
    ally_click_keypad_hang_up()
    ally_click_keypad_visibility_button()
    ally_hang_up()
    ally_keypad_hang_up()
    answer_call()
    answer_call_while_on_call()
    calling_contact_information
    conference_label
    contact_background_style
    hang_up()
    incoming_calling_contact
    incoming_calling_contact_while_on_call
    merge_calls()
    outgoing_calling_contact
    reject_call()
    switch_to_call_screen_frame()

```

```
via_sim
wait_for_incoming_call()
wait_for_incoming_call_while_on_call()
wait_for_outgoing_call()
class gaiatest.apps.phone.regions.keypad.AddNewNumber (marionette)
    Bases: gaiatest.apps.base.Base
    tap_add_to_existing_contact()
    tap_create_new_contact()
class gaiatest.apps.phone.regions.keypad.BaseKeypad (marionette)
    Bases: gaiatest.apps.base.Base
    ally_call_number (value)
    ally_click_call_button (switch_to_call_screen=True)
    ally_dial_phone_number (value)
    call_number (value)
    clear_phone_number()
    dial_phone_number (value)
    phone_number
    tap_call_button (switch_to_call_screen=True)
class gaiatest.apps.phone.regions.keypad.Keypad (marionette)
    Bases: gaiatest.apps.phone.regions.keypad.BaseKeypad,
gaiatest.apps.phone.app.Phone
    suggested_name
    suggested_phone_number
    tap_add_contact()
    tap_search_popup()
    wait_for_phone_number_ready()
    wait_for_search_popup_visible()
```

## 6.19 Settings

```
class gaiatest.apps.settings.app.Settings (marionette)
    Bases: gaiatest.apps.base.Base
    application_storage_menu_item_description
    battery_menu_item_description
    bluetooth_menu_item_description
    cell_data_menu_item_description
    current_view
    disable_airplane_mode()
```

`disable_gps()`  
`enable_airplane_mode()`  
`enable_gps()`  
`header_text`  
`is_airplane_mode_displayed`  
`is_cell_data_menu_visible`  
`is_wifi_menu_visible`  
`language_menu_item_description`  
`launch()`  
`media_storage_menu_item_description`  
`name = 'Settings'`  
`open_accessibility()`  
`open_achievements()`  
`open_addons()`  
`open_app_permissions()`  
`open_application_storage()`  
`open_battery()`  
`open_bluetooth()`  
`open_browsing_privacy()`  
`open_call()`  
`open_cell_and_data()`  
`open_cell_and_data_dual_sim()`  
`open_date_and_time()`  
`open_developer()`  
`open_device_info()`  
`open_display()`  
`open_do_not_track()`  
`open_downloads()`  
`open_findmydevice()`  
`open_firefox_accounts()`  
`open_help()`  
`open_homescreen()`  
`open_improve()`  
`open_internet_sharing()`  
`open_keyboard()`  
`open_language()`

```
open_media_storage()
open_message()
open_navigation()
open_notification()
open_privacy_controls()
open_screen_lock()
open_search()
open_sim_manager()
open_sound()
open_themes()
open_usb_storage()
open_wifi()
return_to_prev_menu(parent_view, exit_view)
screen_element
screen_lock_menu_item_description
switch_to_settings_app()
title
usb_storage_menu_item_description
wait_for_airplane_mode_ready()
wait_until_wifi_is_connected_to(ssid)
wifi_menu_item_description
```

### 6.19.1 Regions

```
class gaiatest.apps.settings.regions.accessibility.Accessibility(marionette)
    Bases: gaiatest.apps.base.Base
```

```
    ally_open_color_settings()
    ally_open_screenreader_settings()
    open_audio_settings()
    open_color_settings()
    open_input_settings()
    screen_element
```

```
class gaiatest.apps.settings.regions.accessibility.AccessibilityAudio(marionette)
    Bases: gaiatest.apps.base.Base
```

```
    screen_element
```

```
class gaiatest.apps.settings.regions.accessibility.AccessibilityColors(marionette)
    Bases: gaiatest.apps.base.Base
```

```
    ally_toggle_filters()
```

```

ally_toggle_grayscale()
ally_toggle_invert()
ally_toggle_switch(switch)
check_switch_for_ally_state(state, switch)
grayscale_switch_hidden
grayscale_switch_visible
invert_switch_hidden
invert_switch_visible
screen_element
toggle_filters()
class gaiatest.apps.settings.regions.accessibility.AccessibilityInput (marionette)
    Bases: gaiatest.apps.base.Base
    screen_element
    tap_change_delay()
    tap_confirm_delay()
class gaiatest.apps.settings.regions.accessibility.AccessibilityScreenreader (marionette)
    Bases: gaiatest.apps.base.Base
    ally_toggle_captions()
class gaiatest.apps.settings.regions.battery.Battery (marionette)
    Bases: gaiatest.apps.base.Base
    confirm_turnon_options()
    enable_power_save_mode()
    screen_element
    tap_turn_on_auto()
class gaiatest.apps.settings.regions.bluetooth.Bluetooth (marionette)
    Bases: gaiatest.apps.base.PageRegion
    device_name
    disable_bluetooth()
    enable_bluetooth()
    enable_visible_to_all()
    is_bluetooth_enabled
    is_visible_enabled
    refresh_root_element()
    screen_element
    tap_confirm_unpair_device()
    tap_device(name)
    tap_rename_my_device()

```

`tap_search_for_devices()`

`tap_update_device_name_ok()`

`type_phone_name(name)`

**class** `gaiatest.apps.settings.regions.cell_data.CellData` (*marionette*)

Bases: `gaiatest.apps.base.Base`

`carrier_name`

`data_prompt`

`enable_data()`

`enable_roaming()`

`is_data_toggle_checked`

`is_roaming_toggle_checked`

`screen_element`

`tap_sim_1_setting()`

**class** `gaiatest.apps.settings.regions.cell_data.CellDataDualSim` (*marionette*)

Bases: `gaiatest.apps.settings.regions.cell_data.CellData`

**class** `gaiatest.apps.settings.regions.cell_data_prompt.CellDataPrompt` (*marionette*)

Bases: `gaiatest.apps.base.PageRegion`

`turn_on()`

**class** `gaiatest.apps.settings.regions.device_info.DeviceInfo` (*marionette*)

Bases: `gaiatest.apps.base.Base`

**class** `DeviceInfo.MoreInfo` (*marionette*)

Bases: `gaiatest.apps.base.PageRegion`

`build_id`

`build_number`

`git_commit_hash`

`git_commit_timestamp`

`hardware_revision`

`iccid`

`imei1`

`imei2`

`mac_address`

`os_version`

`platform_version`

`refresh_root_element()`

`screen_element`

`update_channel`

`DeviceInfo.confirm_reset(response=True)`

`DeviceInfo.exit_update_frequency()`

```

DeviceInfo.legal_screen_element
DeviceInfo.model
DeviceInfo.moreinfo_screen_element
DeviceInfo.notice_screen_element
DeviceInfo.phone_number
DeviceInfo.privacy_screen_element
DeviceInfo.rights_screen_element
DeviceInfo.screen_element
DeviceInfo.software
DeviceInfo.source_screen_element
DeviceInfo.tap_legal_info()
DeviceInfo.tap_more_info()
DeviceInfo.tap_obtaining_source_code()
DeviceInfo.tap_open_source_notices()
DeviceInfo.tap_reset_phone()
DeviceInfo.tap_update_frequency()
DeviceInfo.tap_your_privacy()
DeviceInfo.tap_your_rights()
class gaiatest.apps.settings.regions.display.Display (marionette)
    Bases: gaiatest.apps.base.Base
    screen_element
    tap_timeout_confirmation()
    tap_timeout_selector()
class gaiatest.apps.settings.regions.do_not_track.DoNotTrack (marionette)
    Bases: gaiatest.apps.base.Base
    screen_element
    tap_allow_tracking()
    tap_disallow_tracking()
    tap_do_not_have_pref_on_tracking()
class gaiatest.apps.settings.regions.keyboard.BuiltInKeyBoard (marionette)
    Bases: gaiatest.apps.base.Base
    manifest_url = 'app://keyboard.gaiamobile.org/manifest.webapp'
    tap_exit()
    tap_user_dict_exit()
    tap_user_dictionary()
class gaiatest.apps.settings.regions.keyboard.Keyboard (marionette)
    Bases: gaiatest.apps.base.Base

```

`is_built_in_keyboard_present` (*language*)

`screen_element`

`tap_add_more_keyboards` ()

`tap_built_in_keyboards` ()

`wait_for_built_in_keyboard` (*language*)

`wait_until_page_ready` ()

**class** `gaiatest.apps.settings.regions.keyboard.KeyboardAddMoreKeyboards` (*marionette*)  
 Bases: `gaiatest.apps.base.Base`

`go_back` ()

`screen_element`

`select_language` (*language*)

**class** `gaiatest.apps.settings.regions.language.Language` (*marionette*)  
 Bases: `gaiatest.apps.base.Base`

`close_get_language` ()

`close_select_language` ()

`current_language`

`go_back` ()

`open_get_language` ()

`open_select_language` ()

`screen_element`

`select_language` (*language*)

`wait_for_languages_to_load` ()

**class** `gaiatest.apps.settings.regions.media_storage.MediaStorage` (*marionette*)  
 Bases: `gaiatest.apps.base.Base`

`confirm_select_media_location` ()

`default_media_location`

`external_storage0`

`internal_storage`

`pick_media_location` (*location*)

`screen_element`

`tap_select_media_location` ()

**class** `gaiatest.apps.settings.regions.screen_lock.ScreenLock` (*marionette*)  
 Bases: `gaiatest.apps.base.PageRegion`

`create_passcode` (*passcode*)

`enable_lockscreen` ()

`enable_passcode_lock` ()

`passcode_screen_element`



**screen\_element**

**class** gaiatest.apps.settings.regions.sim\_manager.**SimManager** (*marionette*)

Bases: *gaiatest.apps.base.Base*

**enable\_sim\_pin()**

**screen\_element**

**security\_screen\_element**

**select\_data** (*sim\_option*)

**select\_outgoing\_calls** (*sim\_option*)

**select\_outgoing\_messages** (*sim\_option*)

**sim\_for\_data**

**sim\_for\_outgoing\_calls**

**sim\_for\_outgoing\_messages**

**sim\_pin\_screen\_element**

**tap\_sim\_security()**

**class** gaiatest.apps.settings.regions.wifi.**Wifi** (*marionette*)

Bases: *gaiatest.apps.base.Base*

**connect\_to\_network** (*network\_info*)

**disable\_wifi()**

**enable\_wifi()**

**is\_wifi\_enabled**

**join\_hidden\_network\_screen\_element**

**manage\_certs\_screen\_element**

**manage\_network\_button**

**manage\_network\_screen\_element**

**screen\_element**

**select\_certs\_screen\_element**

**tap\_active\_wifi()**

**tap\_connect\_with\_wps()**

**tap\_forget\_wifi()**

**tap\_import\_certs()**

**tap\_join\_hidden\_network()**

**tap\_manage\_certs()**

**tap\_manage\_networks()**

**tap\_security\_ok()**

**tap\_security\_selector()**

**wps\_screen\_element**

## 6.20 System

```
class gaiatest.apps.system.app.System(marionette)
    Bases: gaiatest.apps.base.Base

    is_app_update_notification_displayed
    open_utility_tray()
    screen_height_without_software_home_button
    screen_width
    software_buttons_height
        Gets the height of the software buttons container on the screen. Always returns 0 if software buttons are
        not displayed.
    status_bar
    tap(x=None, y=None)
    tap_search_bar()
    wait_for_app_update_to_clear()
    wait_for_notification_toaster_displayed(timeout=30, message=None,
                                           for_app=None)
    wait_for_notification_toaster_not_displayed(timeout=10)
    wait_for_software_home_button_displayed(timeout=10, message=None)
    wait_for_software_home_button_not_displayed(timeout=10)
    wait_for_status_bar_displayed()
    wait_for_system_banner_displayed()
    wait_for_system_banner_not_displayed()
    wallpaper_properties
```

### 6.20.1 Regions

```
class gaiatest.apps.system.regions.activities.Activities(marionette)
    Bases: gaiatest.apps.base.Base

    is_menu_visible
    options_count
    share_to_messages()
    share_to_ringtones()
    tap_camera()
    tap_cancel()
    tap_gallery()
    tap_save_image()
    tap_wallpaper()
```

```
class gaiatest.apps.system.regions.cards_view.Card (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    ally_click_app_icon()
    ally_click_close_button()
    ally_click_screenshot_view()
    close()
    is_centered
    is_displayed
    manifest_url
    subtitle
    tap()
    title
    wait_for_centered()

class gaiatest.apps.system.regions.cards_view.CardsView (marionette)
    Bases: gaiatest.apps.base.PageRegion
    ally_wheel_cards_view (direction)
    cards
    is_app_ally_hidden (app)
    is_app_ally_visible (app)
    is_cards_view_ally_hidden
    is_displayed
    is_no_card_displayed
    open_new_browser()
    open_new_private_window()
    swipe_to_previous_app()
    wait_for_cards_view()
    wait_for_cards_view_not_displayed()
    wait_for_no_card_displayed()

class gaiatest.apps.system.regions.iac_publisher.IacPublisher (marionette)
    Bases: gaiatest.apps.base.Base
    launch()
    manifest_url = 'app://test-iac-publisher.gaiamobile.org/manifest.webapp'
    name = 'Test IAC Publisher'
    number_of_connections
    received_blob_message
    received_str_message
    tap_send_message()
```

```

    type_message (value)
    wait_for_message_received()
class gaiatest.apps.system.regions.sleep_view.SleepScreen (marionette)
    Bases: gaiatest.apps.base.Base
    class MenuItem (marionette, element)
        Bases: gaiatest.apps.base.PageRegion
        name
        tap()
    SleepScreen.is_menu_visible
    SleepScreen.menu_items
    SleepScreen.tap_cancel_button()
    SleepScreen.wait_for_sleep_menu_visible()
class gaiatest.apps.system.regions.status_bar.StatusBar (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    ally_wheel_status_bar_time()
    height
    is_airplane_mode_displayed
    is_battery_displayed
    is_data_connected
    is_displayed
    is_geolocation_displayed
    is_mobile_connection_displayed
    is_status_bar_maximized_wrapper_ally_hidden
    is_status_bar_minimized_wrapper_ally_hidden
    is_time_displayed
    time
    wait_for_airplane_mode_icon_displayed()
    wait_for_data_to_be_connected()
    wait_for_geolocation_icon_displayed()
class gaiatest.apps.system.regions.utility_tray.CostControlWidget (marionette)
    Bases: gaiatest.apps.base.Base
    tap()
    wait_for_limit_to_be_reached()
class gaiatest.apps.system.regions.utility_tray.Notification (marionette, element)
    Bases: gaiatest.apps.base.PageRegion
    content
    tap_notification()
    title

```

```

class gaiatest.apps.system.regions.utility_tray.UtilityTray (marionette)
    Bases: gaiatest.apps.base.Base

    ally_clear_all_notifications ()
    ally_click_quick_settings_full_app ()
    ally_wheel_utility_tray_grippy ()
    clear_all_notifications ()
    cost_control_widget
    get_notifications (for_app=None)
    notifications
    tap_settings_button ()
    wait_for_dropped_down ()

class gaiatest.apps.system.regions.search_panel.SearchPanel (marionette)
    Bases: gaiatest.apps.base.Base

    class Result (marionette, element)
        Bases: gaiatest.apps.base.PageRegion
        name
        tap ()

    SearchPanel.app_results
    SearchPanel.confirm_suggestion_notice ()
    SearchPanel.go_to_url (url)
    SearchPanel.is_offline_message_visible
    SearchPanel.link_results
    SearchPanel.offline_search_message
    SearchPanel.tap_offline_settings_button ()
    SearchPanel.type_into_search_box (search_term)
    SearchPanel.wait_for_search_results_to_load (minimum_expected_results=1)

```

## 6.21 Test

```

class gaiatest.apps.testapp.app.TestContainer (marionette)
    Bases: gaiatest.apps.base.Base

    broadcast_dummy_system_message (msg)
    find_message_text (msg_placeholder_id)
    launch ()
    manifest_url = 'app://test-container.gaiamobile.org/manifest.webapp'
    name = 'Test Container'
    set_dummy_system_message_handler (msg_placeholder_id)
    wait_until_launched ()

```

## 6.22 UI tests

```
class gaiatest.apps.ui_tests.app.UiTests (marionette)
    Bases: gaiatest.apps.base.Base

    launch()

    manifest_url = 'app://uitest.gaiamobile.org/manifest.webapp'

    tap_api_button()

    tap_back_button()

    tap_hw_button()

    tap_keyboard_option()

    tap_moz_id_button()

    tap_ui_button()
```

### 6.22.1 Regions

```
class gaiatest.apps.ui_tests.regions.keyboard.KeyboardPage (marionette)
    Bases: gaiatest.apps.base.Base

    email_input

    number_input

    switch_to_frame()

    tap_email_input()

    tap_number_input()

    tap_text_input()

    tap_url_input()

    text_input

    url_input
```

```
class gaiatest.apps.ui_tests.regions.persona.Persona (marionette)
    Bases: gaiatest.apps.base.Base

    get_assertion()

    switch_to_frame()

    tap_logout_button()

    tap_standard_button()

    tap_standard_sign_in()

    wait_for_login_event()

    wait_for_logout_event()

    wait_for_ready_event()
```

## 6.23 UI tests (privileged)

```
class gaiatest.apps.ui_tests_privileged.app.UiTestsPrivileged (marionette)
    Bases: gaiatest.apps.base.Base

    launch()

    manifest_url = 'app://uitest-privileged.gaiamobile.org/manifest.webapp'

    tap_contacts_option()

    tap_device_storage_option()

    tap_geolocation_option()

    tap_get_user_media_option()
```

### 6.23.1 Regions

```
class gaiatest.apps.ui_tests_privileged.regions.contacts.ContactsPage (marionette)
    Bases: gaiatest.apps.base.Base

    switch_to_frame()

    tap_insert_fake_contacts()

class gaiatest.apps.ui_tests_privileged.regions.device_storage.DeviceStoragePage (marionette)
    Bases: gaiatest.apps.base.Base

    switch_to_frame()

    tap_get_music_button_locator()

    tap_get_pictures_button_locator()

    tap_get_sdcard_button_locator()

    tap_get_videos_button_locator()

class gaiatest.apps.ui_tests_privileged.regions.geolocation.GeolocationPage (marionette)
    Bases: gaiatest.apps.base.Base

    switch_to_frame()

    tap_find_location_button()

class gaiatest.apps.ui_tests_privileged.regions.user_media.UserMediaPage (marionette)
    Bases: gaiatest.apps.base.Base

    switch_to_frame()

    tap_audio1_button()

    tap_video1_button()
```

## 6.24 Video

```
class gaiatest.apps.videoplayer.app.VideoPlayer (marionette)
    Bases: gaiatest.apps.base.Base

    empty_video_text
```

```

empty_video_title
first_video_name
launch()
manifest_url = 'app://video.gaiamobile.org/manifest.webapp'
name = 'Video'
tap_first_video_item()
total_video_count
wait_for_thumbnails_to_load(files_number, message=None)

```

### 6.24.1 Regions

**class** `gaiatest.apps.videoplayer.regions.fullscreen_video.FullscreenVideo` (*marionette*)  
 Bases: `gaiatest.apps.base.Base`

```

elapsed_time
is_video_playing
move_seek_slider(offset)
name
show_controls()
tap_forward()
tap_play()
tap_rewind()
wait_for_player_frame_displayed()

```

### 6.25 Wallpaper

**class** `gaiatest.apps.wallpaper.app.Wallpaper` (*marionette*)  
 Bases: `gaiatest.apps.base.Base`

```

name = 'Wallpaper'
tap_wallpaper_by_index(index)

```



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