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.

CHAPTER 1

Installation

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
```

CHAPTER 2

Command line interface

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
```

CHAPTER 3

Running tests

To run tests using gaia test, 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
```

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.

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
```

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.

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`.

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.

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
```

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).

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 then 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.

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
```

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.

- 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>
}
```

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.

CHAPTER 4

Writing tests

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.

CHAPTER 5

API usage

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*)

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

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*)

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.

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.

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*)

CHAPTER 6

Apps

Base

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

DEFAULT_APP_HOSTNAME = '.gaiamobile.org'

DEFAULT_PROTOCOL = 'app://'

a11y_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*)

Browser

Regions

Calendar

class gaiatest.apps.calendar.app.**Calendar**(*marionette*)

Bases: *gaiatest.apps.base.Base*

class **Event**(*marionette*, *element*)

Bases: *gaiatest.apps.base.PageRegion*

a11y_click()

location

title

class Calendar.**Settings**(*marionette*, *element*)

Bases: *gaiatest.apps.base.PageRegion*

wait_for_a11y_calendar_unchecked(*timeout=None*)

wait_for_calendar_unchecked(*timeout=None*)

Calendar.**a11y_click_add_event_button**()

Calendar.**a11y_click_close_settings**()

Calendar.**a11y_click_create_account_back**()

Calendar.**a11y_click_day_display_button**()

Calendar.**a11y_click_day_view_event**()

Calendar.**a11y_click_header**(*header*, *selector*)

Calendar.**a11y_click_modify_account_back**()

Calendar.**a11y_click_month_display_button**()

Calendar.**a11y_click_other_day**(*next*, *previous*)

Calendar.**a11y_click_settings**()

Calendar.**a11y_click_week_display_button**()

Calendar.**a11y_create_event**(*title*)

Calendar.**a11y_wheel_to_next_month**()

Calendar.**a11y_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**()

Regions

class gaiatest.apps.calendar.regions.event.**NewEvent**(*marionette*)

Bases: *gaiatest.apps.calendar.app.Calendar*

a11y_click_close_button()

a11y_click_save_event()

a11y_fill_event_location(*location*)

a11y_fill_event_title(*title*)

fill_event_location(*location*)

fill_event_title(*title*)

tap_save_event()

wait_for_panel_to_load()

Clock

class gaiatest.apps.clock.app.**Clock**(*marionette*)

Bases: *gaiatest.apps.base.Base*

launch()

name = 'Clock'

switch_view(*view_name*)

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**()

Contacts

class gaiatest.apps.contacts.app.**Contacts**(*marionette*)
Bases: *gaiatest.apps.base.Base*

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

a11y_click(*return_class='ContactDetails'*)

full_name

image_data_group

name

tap(*return_class='ContactDetails'*)

Contacts.**a11y_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**()

Regions

class gaiatest.apps.contacts.regions.contact_details.**ContactDetails**(*marionette*)

Bases: *gaiatest.apps.base.Base*

a11y_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*

a11y_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()

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

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()

Email

class gaiatest.apps.email.app.**Email**(*marionette*)
Bases: *gaiatest.apps.base.Base*

a11y_click_manual_setup()

a11y_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*

a11y_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*

a11y_click_settings()

is_a11y_visible

is_edit_visible

is_refresh_visible

is_search_visible

is_settings_visible

is_visible

tap_edit()

tap_refresh()

tap_search()

tap_settings()

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*

a11y_click_delete()

tap_delete()

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

a11y_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*

a11y_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()

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()

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**()

First time use

class gaiatest.apps.ftu.app.**Ftu**(*marionette*)

Bases: *gaiatest.apps.base.Base*

a11y_click_language(*language*)

a11y_click_next()

a11y_click_next_to_cell_data_section()

a11y_click_next_to_finish_section()

a11y_click_next_to_firefox_accounts_section()

a11y_click_next_to_geolocation_section()

a11y_click_next_to_import_contacts_section()

a11y_click_next_to_privacy_browser_section()

a11y_click_next_to_timezone_section()

a11y_click_next_to_welcome_browser_section()

a11y_click_next_to_wifi_section()

a11y_click_skip_tour()

a11y_connect_to_wifi(*network_ssid*, *password*, *key_management=None*)

a11y_disable_geolocation()

a11y_enable_data()

a11y_set_timezone_city(*city*)

a11y_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()

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**()

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()

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*)

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()

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.

a11y_backspace_key_name

a11y_backspace_key_role

a11y_candidate_panel_name

a11y_dismiss_suggestions_button_name

a11y_dismiss_suggestions_button_role

a11y_enter_key_name

a11y_enter_key_role

a11y_first_predictive_word_click()

a11y_first_predictive_word_name

a11y_first_predictive_word_role

a11y_space_key_name

a11y_space_key_role

a11y_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\x8

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*)

Lockscreen

class gaiatest.apps.lockscreen.app.**LockScreen**(*marionette*)
Bases: *gaiatest.apps.base.Base*

a11y_click_camera_button()

a11y_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

Regions

class gaiatest.apps.lockscreen.regions.passcode_pad.**PasscodePad**(*marionette*)
Bases: *gaiatest.apps.base.Base*

tap_emergency_call()

type_passcode(*passcode*)

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*)

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()

Music

class gaiatest.apps.music_oga.app.**Music**(*marionette*)
Bases: *gaiatest.apps.base.Base*

a11y_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*)

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*, *_active_view_locator*)
Bases: *gaiatest.apps.base.PageRegion*

a11y_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()

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()

Phone

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

a11y_click_call_log_toolbar_button()

a11y_click_contacts()

a11y_click_keypad_toolbar_button()

a11y_hang_up()

a11y_make_call(*phone_number*)

a11y_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()

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*

a11y_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

a11y_click_hang_up()

a11y_click_keypad_hang_up()

a11y_click_keypad_visibility_button()

a11y_hang_up()

a11y_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*

a11y_call_number(*value*)

a11y_click_call_button(*switch_to_call_screen=True*)

a11y_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()

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

Regions

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

a11y_open_color_settings()

a11y_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*

a11y_toggle_filters()

a11y_toggle_grayscale()

a11y_toggle_invert()

a11y_toggle_switch(*switch*)

check_switch_for_a11y_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*

a11y_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 **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

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

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*

a11y_click_app_icon()

a11y_click_close_button()

a11y_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*

a11y_wheel_cards_view(*direction*)

cards

is_app_a11y_hidden(*app*)

is_app_a11y_visible(*app*)

is_cards_view_a11y_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*

a11y_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_a11y_hidden

is_status_bar_minimized_wrapper_a11y_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*

a11y_clear_all_notifications()

a11y_click_quick_settings_full_app()

a11y_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*)

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()

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()

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()

UI tests (privileged)

class gaiatest.apps.ui_tests_privileged.app.**UiTestsPivileged**(*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()

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()

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*)

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()

Wallpaper

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

name = 'Wallpaper'

tap_wallpaper_by_index(*index*)

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