



→ Config + sim_name: str + initial_sim_speed: int + min_sim_speed: int + max_sim_speed: int + world_height: int + world_width: int

Location
- x: int
- y: int
+ get_x(): int
+ get_y(): int
+ set_x(int):
+ set_y(int):
+ print_location():

Ξ	MarsConfig
+ 5	SEED: int
+ F	ROVER_MAX_ENERGY: in
+ F	ROVER_MIN_ENERGY: int
+ F	ROCK_MAX_ENERGY: int
+ F	ROCK_MIN_ENERGY: int
+ F	ROCK_SPAWN_RATE: int
+1	NITIAL_ROVERS: int

☐ AllScannedEntities
- scanned_entities: List(ScannedEntity)
+ add_scanned_entity(ScannedEntity):
+ get_all_entities(): list(ScannedEntity)
+ remove_entity(ScannedEntity):
+ get_entity_list_of_type(type, Location): list([ScannedEntity, int])

+ get_entity list_of_none(Location): list([ScannedEntity, int])

- actor: Agent - location: Location + get_entity(): Agent + get_location(): Location + update_location():

+ print_all_scanned_entities():

MarsGui
interaction_state : str
observers: list(Observer)
add_environment_frame():
add_legend_frame():
add_spaceship_legend_label():
add_rover_legend_label():
add_rock_legend_label():
add_spaceship_legend_text():
add_rock_legend_text():
add_rock_legend_text():
add_grid_label(Mars)
add_button_frame():
add_start_button()
start_button_clicked(event):
add_stop_button():
stop_button_clicked(event):
add_step_button(int):
step_button_clicked(event)
refresh(Mars, int):
add_observer(Observer):
notify_observer():

□ Contract
- master: Rover
- supply: Rover
- recharge_point: Rover
- status: str
- reached_rcp : bool
+ set_supply(Rover)
+ get_supply(): Rover
+ get_status() : str
+ get_master(): Rover
+ get_recharge_point(): Location

+ set_recharge_point(Location):

+ contract_complete(): + get_reached_rcp(): bool + set_reached_rcp(bool):

