```
Environment
- int width
 int height

    std::string type

    std::unique ptr< ISpatialIndex</li>

  < boost::uuids::uuid > > spatialIndex
- std::unordered_map< boost
  ::uuids::uuid, std::shared
  _ptr< EnvironmentObject > >
  objectsMapper
- std::vector< std::shared
  ptr< Organism > > deadOrganisms
- unsigned long foodConsumption
+ Environment(int width,
   int height, std::string
   type="default")
+ int getWidth() const
+ int getHeight() const
+ void add(const std::shared
   _ptr< Organism > &organism,
   float x, float y)
+ void add(const std::shared
  _ptr< Food > &food, float
  x, float y)
+ void remove(const std
  ::shared_ptr< Organism
   > &organism)
+ void remove(const std
  ::shared_ptr< Food > &food)
+ void reset()
+ void simulateIteration
  (int, std::function< void
  (const Environment &)> on
  _each_iteration=nullptr)
+ std::vector< std::shared
   _ptr< Organism > > getAllOrganisms
  () const
+ std::vector< std::shared
   _ptr< Food > > getAllFoods
  () const
+ std::vector< std::shared
   _ptr< EnvironmentObject
   > > getAllObjects() const
+ std::vector< std::shared
   ptr< Organism > > getDeadOrganisms
  () const
+ unsigned long getFoodConsumption
  InIteration() const
- void checkBounds(float
  x, float y) const

    void updatePositionsInSpatial

  Index()
 void handleInteractions()
```

void postIteration()
void cleanUp()

void removeDeadOrganisms()