

# Object: Code Snippets

## OrxFrame

## OrxFX

## OrxFXPointer

## OrxObject

### OrxObject\_Create

```
orxOBJECT *heroObject = orxObject_CreateFromConfig("HeroObject");
orxVECTOR pointA = {500,150,0};
orxObject_SetPosition(heroObject, &pointA);
```

### OrxObject\_SetPosition

```
orxVECTOR tilePos;
orxVector_Set(&tilePos, orx2F(80.0f) * x, orx2F(160.0f), orxFLOAT_0);
orxObject_SetPosition(tile, &tilePos);
```

```
orxVECTOR pos;
orxObject_GetPosition(player, &pos);
pos.fX = -pos.fX;
orxObject_SetPosition(player, &pos);
```

### orxObject\_SetRotation

Rotation is set in radians. Zero rad vector is equivalent to (1, 0) vector in screen coordinates. In other words it is a horizontal line pointing from left to right.

Positive rotation is set in clockwise direction. If vector origin was in the center of the screen, then 1 rad would point to the bottom right corner of the screen.

### orxObject\_SetAngularVelocity

Set angular velocity changes object rotation value over time. Setting positive value make object rotate clockwise.

TBD: What's the unit of measure?

By default object starts with zero rotation angle which points horizontally from left to right. As object rotates a full circle its rotation angle value will not reset to zero. Instead it will continue to grow in positive or negative direction according to angular velocity value.

Thus after one full circle the object rotation value will satisfy the condition:

```
orxMath_Abs(orxObject_GetRotation(obj)) >= orxMATH_KF_2_PI
```

## orxObject\_GetWorldRotation and orxObject\_GetRotation

Returns current object rotation value in rad. The value returned can be any floating value.

See `orxObject_SetRotation` for coordinate system reference. See `orxObject_SetAngularVelocity` for discussion of continuous rotation.

## orxObject\_CreateNeighborList and orxObject\_DeleteNeighborList

Use it to obtain objects within the specified bounding box.

```
orxOBJECT *obj; // comes from mouse click event or in some other way
orxVECTOR pos, size;
orxFLOAT range = orx2F(250.f);
orxOBOX box;

orxObject_GetWorldPosition(obj, &pos);
orxVector_Set(&size, range, range, orxFLOAT_0);
orxOBox_2DSet(&box, &pos, &orxVECTOR_0, &size, orxFLOAT_0);

orxBANK *neighbors = orxObject_CreateNeighborList(box);
void* cell = orxNULL;
while ((cell = orxBank_GetNext(neighbors, cell))) {
    orxOBJECT **n = cell;
    orxLOG("object name: %s.", orxObject_GetName(*n));
}
orxObject_DeleteNeighborList(neighbors);
```

## object traversing

[Object Traversing](#) has its own page due to somewhat large discussion on the topic.

## OrxSpawner

```
orxSTRUCTURE *structure = orxStructure_GetFirst(orxSTRUCTURE_ID_SPAWNER );
while (structure != orxNULL){
    orxSPAWNER *spawn = orxSPAWNER(structure);
    if (orxString_Compare(orxSpawner_GetName(spawn), spawnerName) == 0 ){
        return spawn;
    } else {
        structure = orxStructure_GetNext(structure );
    }
}
```

## OrxStructure

```
orxSTRUCTURE *structure = orxStructure_GetFirst(orxSTRUCTURE_ID_OBJECT);
while (structure != orxNULL){
    orxOBJECT *object = orxOBJECT(structure);
    const orxSTRING objectName = orxObject_GetName(object);
    orxSTRUCTURE *nextStructure = orxStructure_GetNext(structure);
    if (orxString_Compare(objectName , "SomeObjectName") == 0){
        orxObject_SetLifeTime(orxOBJECT(structure), orx2F(0.0));
    }
    structure = nextStructure;
}
```

## OrxTimeLine

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