

Relations

2 grands types de relations existent :

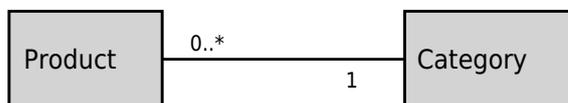
- manyToOne/oneToMany
- manyToMany

manyToOne/oneToMany

Correspond aux associations hiérarchiques de type CIF.

manyToOne et **oneToMany** correspondent au même type d'association, mais vus de chaque côté de la relation.

Création



CREATED WITH YUML

Exemple :

manyToOne

Chaque produit appartient à une catégorie :

```
// ...
class Product{
    // ...

    /**
     * @ORM\ManyToOne(targetEntity="App\Entity\Category", inversedBy="products")
     * @ORM\JoinColumn(nullable=true)
     */
    private $category;

    public function getCategory(): Category
    {
        return $this->category;
    }

    public function setCategory(Category $category)
    {
        $this->category = $category;
    }
}
```

oneToMany

Chaque catégorie peut contenir plusieurs projets :

```
// ...
use Doctrine\Common\Collections\ArrayCollection;
use Doctrine\Common\Collections\Collection;

class Category{
    // ...

    /**
     * @ORM\OneToMany(targetEntity="App\Entity\Product", mappedBy="category")
     */
    private $products;

    public function __construct(){
        $this->products = new ArrayCollection();
    }

    /**
     * @return Collection|Product[]
     */
    public function getProducts(){
        return $this->products;
    }
}
```

Chargement

manyToOne : Affichage de la catégorie d'un produit :

```
use App\Entity\Product;
// ...

/**
 * @Route("/product/{id}", name="product_show")
 */
public function showAction(Product $product){

    $categoryName = $product->getCategory()->getName();

    // ...
}
```

Persistence

<sxh php;title:src/Controller/ProductController.php>

```
... use App\Entity\Category; use App\Entity\Product; use Symfony\Component\HttpFoundation\Response; class
ProductController extends Controller{ /** * @Route("/product", name="product") */ public function index() {
$category = new Category(); $category->setName('Computer Peripherals'); $product = new Product();
$product->setName('Keyboard'); $product->setPrice(19.99); $product->setDescription('Ergonomic and stylish!');
relates this product to the category
```

```
$product->setCategory($category);
```

```
$em = $this->getDoctrine()->getManager();
$em->persist($category);
$em->persist($product);
$em->flush();
```

```
return new Response(
    'Saved new product with id: '.$product->getId()
    .' and new category with id: '.$category->getId()
);
}
}
```

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