

PARENT OBJECTS

A Parent object is POG's implementation of one-to-one and one-to-many relations. If your application requires this type of object relations, you can generate objects using this feature. All parent objects in POG require a corresponding Child object.

CHILD OBJECTS

A Child object is POG's implementation of one-to-one and one-to-many relations. If your application requires this type of object relations, you can generate objects using this feature. All sibling objects in POG require a corresponding sibling object.

SIBLING OBJECTS

A Sibling object is POG's implementation of many-to-many relations. If your application requires this type of object relations, you can generate objects using this feature. All sibling objects in POG require a corresponding sibling object.

CHILD -> SET {PARENT}

The *Set (Parent)* Relations method allows you to associate a parent object to a child object. When a child object is generated, POG automatically adds a ParentId attribute to the child object. When *Set (parent)* is called, POG essentially associates the object id of the parent to the child

CODE EXAMPLES:

To set an Author object as the parent of a child object:

```
Sauthor = new Author(); //create a parent object
Sauthor -> name = 'Michael Critchton';
Sauthor -> Save();
```

```
Sbook = new Book(); //create a child object
Sbook -> title = 'State of Fear';
Sbook -> SetAuthor(Sauthor); //this associates the parent to the child
Sbook -> Save();
```

Note:
child -> Set (parent) is almost equivalent to **parent -> Add (Child)** ([see below](#)). The main difference is that **Set (parent)** requires that the parent object be previously saved before associating a child to it. Depending on the code context, the developer can choose which method is most convenient to him/her.

CHILD -> GET {PARENT}

The *Get (Parent)* Relations method allows you to get the parent object associated with a child object.

CODE EXAMPLES:

To get the parent object of a child object:

```
Sauthor = new Author(); //create a parent object
Sauthor -> name = 'Michael Critchton';
```

```
Sbook = new Book(); //create a child object
Sbook -> title = 'State of Fear';
Sauthor -> AddBook(Sbook); //see below
Sauthor -> Save(true);
```

```
Sauthor = Sbook -> GetAuthor(); // retrieves the parent of the book object
echo Sauthor -> name; // prints 'Michael Critchton'
```

PARENT -> ADD {CHILD}

The *Add (Child)* Relations method allows you to **add a reference of a child** object to a parent object. The child object **reference** is added to a private children Array inside the Parent object. The child is not saved to the database until you save the parent or until you save the child to the database manually. As of POG 2.5, the same child will not be added more than once to the parent if the child already has a childid.

CODE EXAMPLES:

To Add a book object to an Author object, simply do the following:

```
Sbook = new Book(); //create a child object
Sbook -> title = 'State of Fear';
Sauthor = new Author(); //create a parent object
Sauthor -> name = 'Michael Critchton';
Sauthor -> AddBook(Sbook); //associate child to parent
```

Note: in PHP 4 (and PHP 4 only), since object references are not handled intuitively, adding children **through iteration** will not work as expected. For example, the following does not work in PHP 4

```
Foreach (childList as child)
{
    Sparent->AddChild(Schild)
}
```

Instead, do the following:

```
Foreach (array_keys(SchildList) as $key)
{
    $child = childList[$key];
    Sparent->AddChild(Schild)
}
```

CRUD methods.

Please note that these additional methods are only generated if a developer specifies that an object is either a Parent, Child or Sibling. Otherwise the object will be generated with only the usual 5 methods as well as additional methods referred to as relations methods. That follows is a description of the relations methods that can be used.

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CRUD methods.

RELATIONS

- [Introduction to PHP Object Creation.](#)
- [Database Structures and POG.](#)
- [POG PART I. ESSENTIALS.](#)

articles before proceeding:

some experience generating simple objects using POG. By simple, we mean objects that are not connected to each other. Essentially, this document will not make sense to you if you are not familiar with POG already. If you are new to POG, please take a look at the following 'essential' articles before proceeding:

INTENDED AUDIENCE

RELATIONS

PHP OBJECT GENERATOR

PARENT -> SET {CHILDREN} LIST

The *Set (Children) List* Relations method allows you to set the array of child objects associated with the parent object.

CODE EXAMPLES:

To set a list of books associated with an author, simply do the following:

```
Sauthor = new Author(); //create a parent object
Sauthor -> name = 'Michael Critchton';
Sauthor -> Save();
```

```
Sbook1 = new Book(); //create a child object
Sbook1 -> title = 'Jurassic Park';
Sbook1 -> Save();
```

```
Sbook2 = new Book(); //create a second child object
Sbook2 -> title = 'State of Fear';
Sbook2 -> Save();
```

```
SbookList = array(); //create a second child object
SbookList[] = Sbook1;
SbookList[] = Sbook2;
```

```
Sauthor -> SetBookList(SbookList);
```

Note: **Set (Children) List** essentially allows you to remove any relationship between a parent and all children objects without having to delete either the parent or the children. Previous children will become orphans.

```
Sauthor = new Author(); //create a parent object
Sauthor -> name = 'Michael Critchton';
Sauthor -> Save();

Sbook = new Book(); //create a child object
Sbook -> title = 'Jurassic Park';
Sbook -> Save();

Sbook -> SetAuthor(Sauthor); //associate child object to parent and save
Sbook -> Save();

Sbook = new Book(); //create a second child object
Sbook -> title = 'State of Fear';
Sauthor -> AddBook(Sbook); //associate the child to parent object
Sauthor -> Save();

SbookList = Sauthor -> GetBookList(); //returns a list of children
foreach(SbookList as $book)
{
    echo Sbook -> title;
}

The code sample above will print
Jurassic Park
State of Fear
```

To retrieve a list of books associated with an author, simply do the following:

CODE EXAMPLES:

```
Get (Children) List returns an array of child objects
Get (Children) List can take an optional condition array (similar to CHRLIST, See POG Essentials)
```

The *Get (Children) List* Relations method allows you to retrieve an array of child objects associated with the parent object. The list of child objects includes children that have already been saved to the database as well as child objects that haven't

PARENT -> GET {CHILDREN} LIST

The above code forces PHP to pass a reference of the child object to the AddChild method.

SIBLING -> SET {SIBLING} LIST

The Set (*Sibling*) List() Relations method allows you to Set the array of sibling objects.

CODE EXAMPLES:

To set a list of subscribers associated with a magazine, simply do the following:

```
$magazine = new Magazine();
$magazine -> name = 'Popular Mechanics';
$magazine -> Save();

$subscriber1 = new Subscriber();
$subscriber1 -> name = 'John';
$subscriber1 -> Save();

$subscriber2 = new Book();
$subscriber2 -> name = 'Mary';

$subscriberList = array();
$subscriberList [] = $subscriber1;
$subscriberList [] = $subscriber2;

$magazine -> SetSubscriberList($subscriberList);
```

Note: Set (SIBLING) List essentially allows you to remove any relationship between 2 sibling objects without having to either one of them.

SIBLING -> GET {SIBLING} LIST

The Get (*Sibling*) List Relations method allows you to retrieve an array of sibling objects associated with the current object. The list of sibling objects includes sibling objects that have already been saved to the database as well as those that haven't

Get (Sibling) List returns an array of sibling objects.

Get (Sibling) List can take an optional conditions array (similar to Get() list. See POG Essentials)

CODE EXAMPLES:

To retrieve a list of magazines associated with a subscriber, simply do the following:

```
$magazine = new Magazine();
$magazine -> title = 'Newsweek';

$subscriber = new Subscriber();
$subscriber -> name = 'John';
$subscriber -> AddMagazine($magazine);
$subscriber -> Save();

$magazine2 = new Magazine();
$magazine2 -> title = 'Popular Mechanics';
$subscriber -> AddMagazine($book);

$magazineList = $subscriber -> GetMagazineList();

foreach($magazineList as $magazine)
{
    echo $magazine -> title;
}

The code sample above will print
Newsweek
Popular Mechanics
```

OBJECT -> SAVE(\$DEEP)

When an object is identified as "Parent" or "Sibling", POG generates the object with a slightly different Save CRUD method. The modified Save method is known as Save(\$DEEP). The Save(\$DEEP) method extends the functionality of the traditional SAVE method by allowing you to recursively Save all other objects (children or siblings) associated with the current object. By default, all objects are saved deep, i.e. when the \$deep parameter is not specified.

Save(\$deep) returns the object Id of the inserted/updated object.

CODE EXAMPLES:

To Save an object 'deep', simply do the following:

```
$book = new Book();
$book -> title = 'State of Fear';
$author = new Author();
$author -> name = 'Michael Critchton';
$author -> AddBook($book);

$author -> Save (true);
```

Note: Save(true) is the same as Save():

To Save an object 'shallow', simply do the following:

```
$book = new Book();
$book -> title = 'State of Fear';
$author = new Author();
$author -> name = 'Michael Critchton';
$author -> AddBook($book);

$author -> Save (false);
```

Note: Save(false) is different from Save():

OBJECT -> DELETE(\$DEEP)

When an object is identified as "Parent" or "Sibling", POG generates the object with a slightly different Delete CRUD method. The modified Delete method is known as Delete(\$DEEP). The Delete(\$DEEP) method extends the functionality of the traditional DELETE method by allowing you to recursively Delete all objects (children or siblings) associated with the current object. By default, objects are NOT deleted deep if the \$deep parameter is not specified.

CODE EXAMPLES:

To Delete an object 'deep', simply do the following:

```
$book = new Book();
$book -> title = 'State of Fear';
$author = new Author();
$author -> name = 'Michael Critchton';
$author -> AddBook($book);

$author -> Delete (true);
```

Note: Delete(true) different from Delete():

To Delete an object 'shallow', simply do the following:

```
$book = new Book();
$book -> title = 'State of Fear';
$author = new Author();
$author -> name = 'Michael Critchton';
$author -> AddBook($book);

$author -> Delete (false);
```

Note: Delete(false) is the same as Delete():

```
$magazine -> AddSubscriber($subscriber);
$magazine -> name = 'Newsweek';
$magazine = new Magazine();
$subscriber -> name = 'John';
$subscriber = new Subscriber();
```

To Add a Subscriber object to a Magazine object, simply do the following:

```
sibling2)
sibling2 -> AddSibling($sibling2)
sibling1 -> AddSibling2(sibling2)

For example:
```

Let's consider the example of Magazines and Subscribers. A Magazine has many subscribers and each subscriber can subscribe to 1 or more magazines. To prevent circular dependencies, A siblings cannot add each other successively within the same code block.

CODE EXAMPLES:

The Add (Sibling) Relations method allows you to associate a sibling object to another sibling object. The 2nd sibling object is added to a private sibling array inside the 1st sibling object. The sibling object is not saved to the database until Save() is called.

SIBLING -> ADD {SIBLING}

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Send us a hello through email: po@pogobjectcomponent.com

DeleteList also takes a conditions array (similar to Crital, See POG Essentials)

CODE EXAMPLES:

To Delete a list of objects 'deep', simply do the following:

```
$author = new Author();
$author -> DeleteList(array("name" => "Michael Critchton"), true);
```

The above statement will delete all authors named "Michael Critchton" and all books written by the author.