

fatica **consulting**

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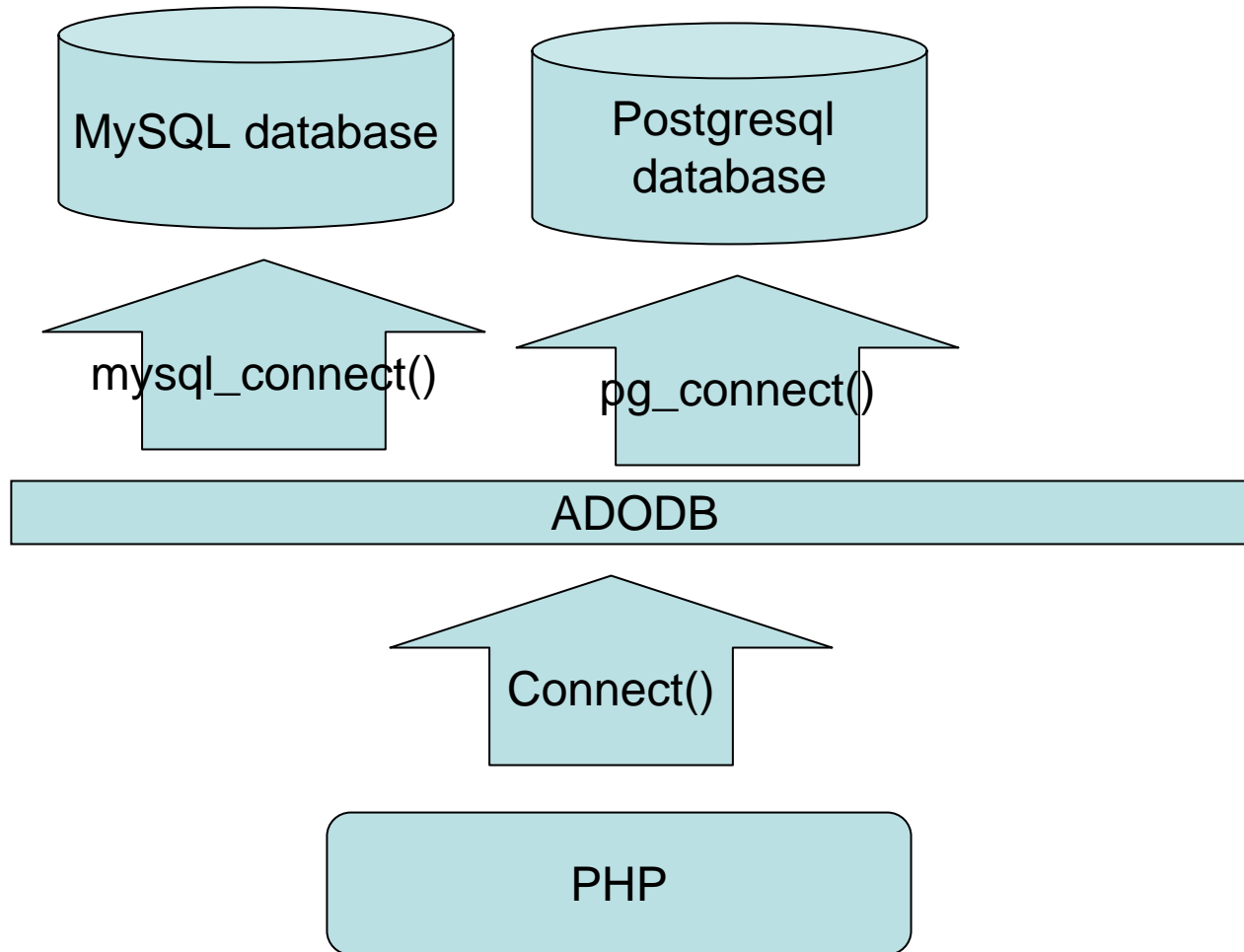
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Introduction to ADOdb

adodb.sourceforge.net

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Database abstraction layer



Background

- First encountered in Dreamweaver PHP RAD extension by Interakt Software (PHakt)
- Developed multiple sites with it (metacalendar.com, consultantdirectory.org)
- Very stable and fast
- Easy to learn, approachable syntax
- Makes DB driven Web sites highly portable
- Supports caching, automatic results output

Installation & Database Types

- Copy the files to your Web site root e.g. www.fatica.net/adodb
- Supported database drivers:
 - MySQL, Oracle, Microsoft SQL Server, Sybase, Sybase SQL Anywhere, Informix, PostgreSQL, FrontBase, SQLite, Interbase (Firebird and Borland variants), Foxpro, Access, ADO, DB2, SAP DB and ODBC.

Establishing a connection

- `$dbconn = NewADOConnection('databasedrivername');`
- `$dbconn->Connect("localhost","fatica","password","dbname");`
 - PConnect v.s. Connect
- `$dbconn->IsConnected()`
- If you're host gives you just a DSN, you can pass a URI to Connect:
 - `database://username:password@localhost/databasename`

Running Queries

```
$sql = "select * from tblUsers where  
    username=$username and password=$password";
```

```
$rs = $db_conn->Execute($sql);
```

```
while(!$rs->EOF()){  
    echo $rs->Fields('username') . '<br />';  
    echo $rs->Fields('password') . '<br />';  
    $rs->MoveNext();  
}
```

Inserts and updates

- Option 1: Just pass the sql Execute
 - `$db_conn->Execute('insert into tblUsers ...');`
- Option 2:
 - Use `AutoExecute` (See also `GetUpdateSQL` and `GetInsertSQL`)
 - Ex:

```
$record["username"] = "mike";  
$record["password"] = "supersecr8"  
$db_conn->AutoExecute("tblusers",$record,'INSERT')
```

Handy Functions of the Recordset Object

- Properties
 - SQL: the sql that created it
 - EOF: True of past the last record
- Methods
 - GetAssoc, GetArray and GetRows
 - Generate object from current position to EOF or passed value
 - **GetMenu**
 - Generates a html select from the recordset

Moving Around Your Results

- MoveNext()
- Here there be dragons
 - Move(\$to) (Zero based)
 - MoveFirst()
 - MoveLast()

Handy Functions of the Connection Object

(All called as `$db_conn->`)

- **DBDate(\$date)** (Format the date as the database likes it)
- **Insert_ID()** (Gets the last inserted autoincremented ID)
- **qstr(\$s)** (Escapes strings according to the DB preferences)

Utility Functions

- Recordset Pager (very cool)
 - \$pager = new ADODB_Pager(\$db_conn,\$sql)
 - \$pager->Render()

- Export functions
 - rs2html
 - rs2tab
 - rs2csv

Transactions

- `$conn->StartTrans()`;
- `$conn->Execute($sql)`;
`$conn->Execute($sql2)`;
- `$conn->CompleteTrans()`;
- Rolls back all work done in between **Start** and **Complete** if failure occurs

Caching

- Cache this query's results for 25 seconds
 - `$rs = $db_conn->CacheExecute(25,$sql);`
- Set cache time globally
 - `$db_conn->cacheSecs`
- Flush the cache
 - `CacheFlush()`