

db40 lightning talk

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db4o

a native persistence
solution
for Java and .net

“ an object database ”

open a database

```
import com.db4o.*;  
  
// ...  
  
ObjectContainer db =  
    Db4o.openFile("fosdem.yap");
```



```
using Db4objects.Db4o;  
  
// ...  
  
IObjectContainer db =  
    Db4oFactory.OpenFile("fosdem.yap");
```

.net

persist an object

```
Tree t = new Tree(42);  
db.set(t);
```



```
Tree t = new Tree(42);  
db.Set(t);
```

.net

yeah, that's it

Q.B.E. queries

```
Tree t = new Tree(42);  
ObjectSet trees = db.get(t);
```



```
Tree t = new Tree(42);  
IObjectSet trees = db.Get(t);
```

.net

S.O.D.A. queries

```
Query q = db.query();  
q.constrain(Tree.class);  
q.descend("_age").constrain(42).greater();  
ObjectSet set = q.execute();
```




```
IQuery q = db.Query();  
q.Constrain(typeof(Tree));  
q.Descend("_age").Constrain(42).Greater();  
IObjectSet match = q.Execute();
```


.net

Native Queries

```
List<Tree> forest =  
    db.query(new Predicate<Tree>() {  
        @Override  
        public boolean match(Tree t) {  
            return t.age >= 42;  
        }  
    });
```



```
IList<Tree> gump =  
    db.Query<Tree>(delegate(Tree t) {  
        return t.age >= 42;  
    });
```



Licensing

- GPL + Proprietary à la MySQL
- d0CL : db4o Open-Source Compatibility License

How do we develop ?

- One Java code base
- Automagically converted to C#
- using our Sharpen converter, based on the eclipse API

Tools

- dRS : db4o Replication System
- OM : Object Manager

How do we work

- Agile
- Test-Driven Development
- Pair-Programming !
- One audio meeting per week
- One live meeting per semester

<http://developer.db4o.com>