

QueryFieldEditor

by Adam Hertz, Manager, Information Architecture Group

This example is a field editor that does escape completion against any IXBTree cursor. It is used in Webster and Librarian. You attach it to a TextField, and when the user types Esc, it completes the prefix using a IXBTree's key space as the set of possible completions.

It behaves like (and was inspired by) the escape completion in Edit: it cycles through all possible completions for a given prefix. You attach it to a TextField by implementing the Window delegate's -windowWillReturnFieldEditor:toObject:hook. You arm it with an IXBTree cursor, and away you go.

The following code snippet shows how the Window delegate manages the QueryFieldEditor:

```
#import <indexing/IXRecordManager.h>
#import <indexing/FileFinder.h>
#import <btree/IXBTreeCursor.h>

/* This method sets the proper IXBTree cursor for the field editor */

- setCursorForFieldEditor
{
```

```
/* The idea here is to set the field editor to a cursor of any IXBTree
 * with strings as keys
 */
[fieldEditor setCursor:cursor];
return cursor;
```

```
}
```

```
/* You must implement this window delegate method to set the proper field editor for
 * the textfield named "fieldEditor"
 */
```

```
- windowWillReturnFieldEditor:sender toObject:client
```

```
{
```

```
    if (client != queryField) return nil;
    if (fieldEditor == nil) {
        fieldEditor = [[QueryFieldEditor alloc] init];
        [self setCursorForFieldEditor];
    }
```

```
    return fieldEditor;
```

```
}
```