

オブジェクト指向プログラミング No.10

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ソースコード

MultilingualBook.java

```
class BookInfo{

    protected String author;

    protected String title;

    protected String publisher;

    protected int pYear;


    BookInfo(){}


    BookInfo(String author, String title, String publisher, int pYear){

        this.author = author;

        this.title = title;

        this.publisher = publisher;
```

```
        this.pYear = pYear;

    }

    void setAuthor(String author){

        this.author = author;

    }

    void setTitle(String title){

        this.title = title;

    }

    void setPublisher(String publisher){

        this.publisher = publisher;

    }

    void setPYear(int pYear){
```

```
        this.pYear = pYear;

    }
```

```
String getAuthor(){

    return author;

}
```

```
String getTitle(){

    return title;

}
```

```
String getPublisher(){

    return publisher;

}
```

```
int getPYear(){
```

```
        return pYear;

    }

    void showBook(){

        System.out.println("著者名: " + author);

        System.out.println("題名: " + title);

        System.out.println("出版社: " + publisher);

        System.out.println("出版年: " + pYear);

    }

}
```

```
class MultilingualBook extends BookInfo {

    private String language;

    private boolean trans = false;

    private String translator;

    private String transBook;
```

```
private String transPub;
```

```
MultilingualBook(){
```

```
MultilingualBook(String author, String title, String publisher, int  
pYear, String language, boolean trans, String translator, String transBook, String  
transPub){
```

```
    super(author, title, publisher, pYear);
```

```
    this.language = language;
```

```
    if (trans){
```

```
        this.trans = trans;
```

```
        this.translater = translator;
```

```
        this.transBook = transBook;
```

```
        this.transPub = transPub;
```

```
    }
```

```
}
```

```
void setlanguage(String language){  
  
    this.language = language;  
  
}
```

```
void settrans(boolean trans){  
  
    this.trans = trans;  
  
}
```

```
void settranslator(String translator){  
  
    this.translater = translator;  
  
}
```

```
void settransBook(String transBook){  
  
    this.transBook = transBook;  
  
}
```

```
void settransPub(String transPub){  
  
    this.transPub = transPub;  
  
}
```

```
String getlanguage(){  
  
    return language;  
  
}
```

```
boolean gettrans(){  
  
    return trans;  
  
}
```

```
String gettranslator(){  
  
    return translator;  
  
}
```

```
String gettransBook(){  
  
    return transBook;  
  
}
```

```
String gettransPub(){  
  
    return transPub;  
  
}
```

```
void showBook(){  
  
    super.showBook();  
  
    System.out.println("言語: " + language);  
  
    System.out.println("訳書の有無: " + trans);  
  
    System.out.println("訳者名: " + translator);  
  
    System.out.println("訳書名: " + transBook);  
  
    System.out.println("訳書出版社: " + transPub);  
  
}
```



```
}
```

mixTester.java

```
public class mixTester{

    public static void main(String[] args){

        BookInfo[] a = {new MultilingualBook("Lewis Carroll",
"Alice's Adventures in Wonderland", "MacmillanPublishers", 1865, "英語", true,
"高山宏", "不思議の国のアリス", "東京図書"),

        new BookInfo("夏目漱石", "坊ちゃん", "春陽堂", 1907), new
MultilingualBook("Albert Camus", "L'Etranger", "Edications Galimard", 1942, "
仏語", true, "窪田啓作", "異邦人", "新潮文庫")};

        for (int i = 0; i < a.length; i++){

            if (a[i] instanceof MultilingualBook){

                ((MultilingualBook)a[i]).showBook();

            } else {

                a[i].showBook();

            }

        }

    }

}
```

		}
	}	
}		
}		

実行結果

著者名: Lewis Carroll

題名: Alice's Adventures in Wonderland

出版社: MacmillanPublishers

出版年: 1865

言語: 英語

訳書の有無: true

訳者名: 高山宏

訳書名: 不思議の国のアリス

訳書出版社: 東京図書

著者名: 夏目漱石

題名: 坊ちゃん

出版社: 春陽堂

出版年: 1907

著者名: Albert Camus

題名: L'Etranger

出版社: Edications Galimard

出版年: 1942

言語: 仏語

訳書の有無: true

訳者名: 窪田啓作

訳書名: 異邦人

訳書出版社: 新潮文庫