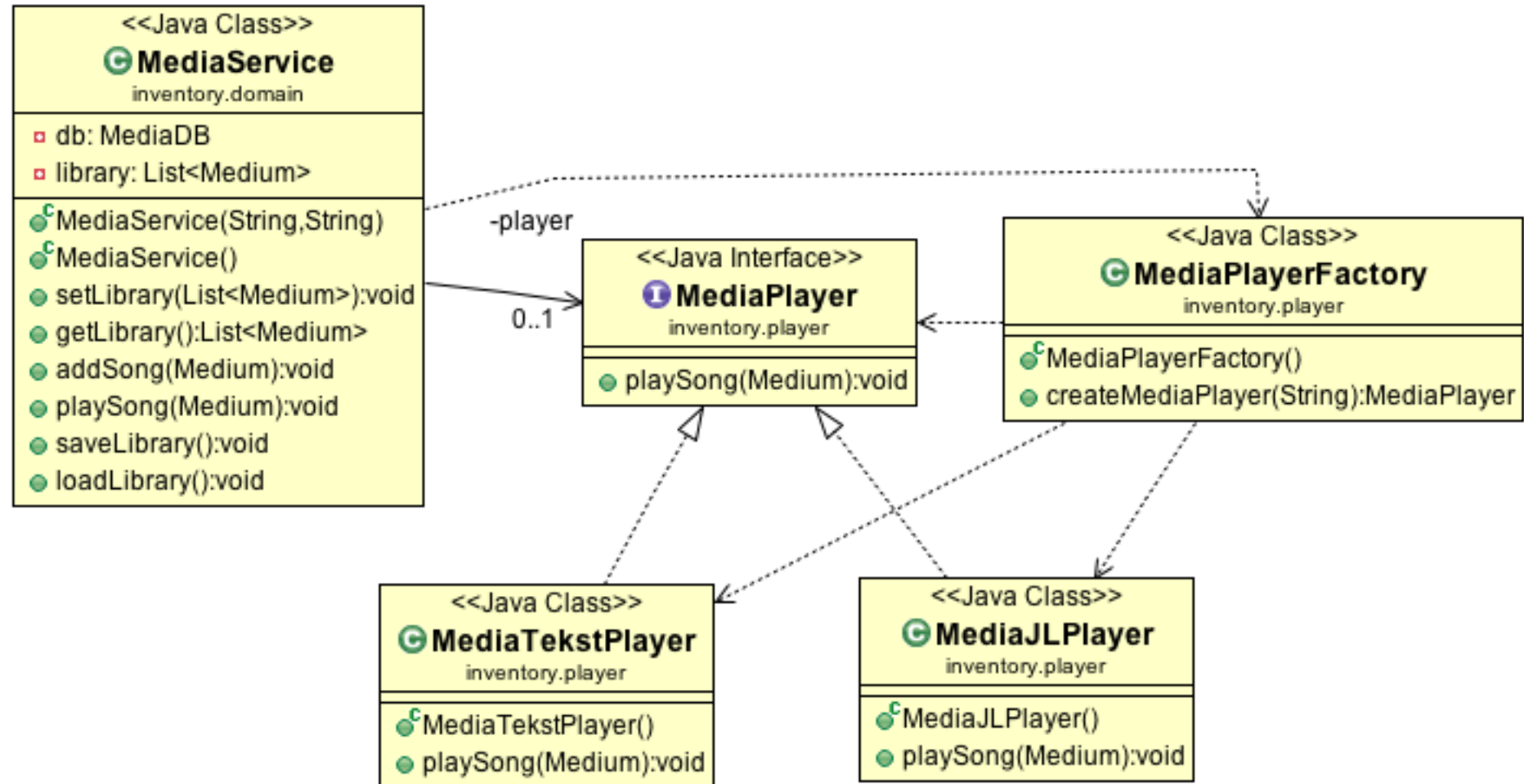


Playing music...





UC Leuven
Limburg

MOVING MINDS

Properties

Why?

- MediaService: how to choose:
 - How to store? Files? Relational database? ...
 - How to play? Text? JLayer? ...

```
public class MediaPlayerFactory {  
    public MediaPlayer createMediaPlayer(String type){  
        MediaPlayer mediaPlayer = null;  
        if(type != null && type.equals("tekst")){  
            mediaPlayer = new MediaTekstPlayer();  
        } else if(type.equals("jlayer")){  
            mediaPlayer = new MediaJLPlayer();  
        }  
        return mediaPlayer;  
    }  
}
```

```
public class MediaDBFactory {  
    public MediaDB createMediaDB(String type){  
        MediaDB mediaDB = null;  
        if(type != null && type.equals("file")){  
            mediaDB = new MediaFileDB();  
        } else if(type != null && type.equals("relational")){  
            mediaDB = new MediaSQLDB();  
        }  
        return mediaDB;  
    }  
}
```

→ .properties

cfr. Windows: .ini

Example

```
#####  
#
```

```
# Configuration mediaplayer
```

```
#
```

```
#####
```

```
database=file
```

```
player=text
```

Comment

Value

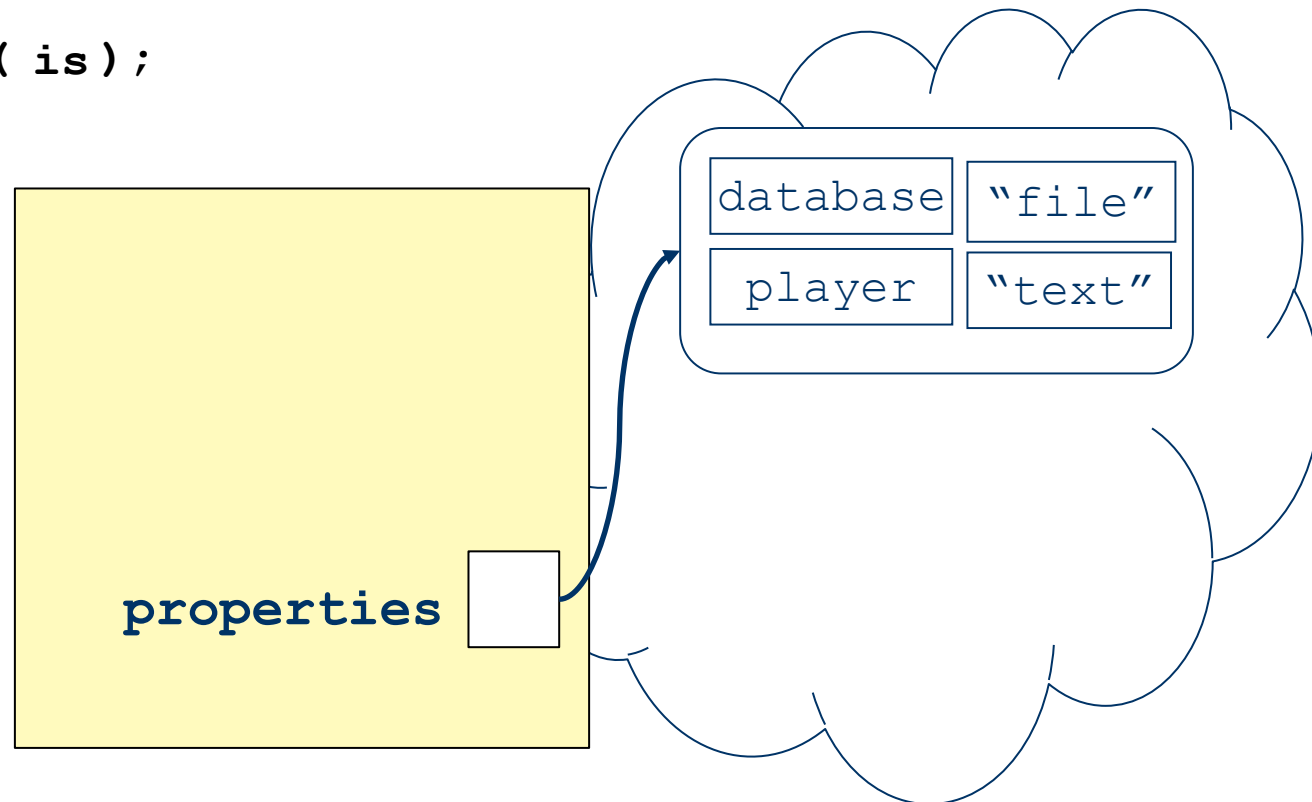
Property

In Java

- Class Properties:
 - Read
 - Use
 - Write
- <http://docs.oracle.com/javase/7/docs/api/java/util/Properties.html>

Read file

```
Properties properties = new Properties();  
InputStream is = new FileInputStream("player.properties");  
  
properties.load(is);  
  
is.close;
```



Use properties

```
Object dbType = properties.getProperty("database");
```

```
String dbTypeName = (String) dbType;
```



"file"

```
properties.setProperty("database", "relational");
```

Write

```
FileOutputStream os = new FileOutputStream("player.properties");  
  
properties.store( os );  
  
os.close;
```


Example

```
#####  
#
```

```
# Configuration mediaplayer
```

```
#
```

```
#####
```

```
database=relational
```

```
player=tekst
```

XML

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
    <comment>Configuration mediaplayer</comment>
    <entry key="database">file/</entry>
    <entry key="player">text</entry>
</properties>
```

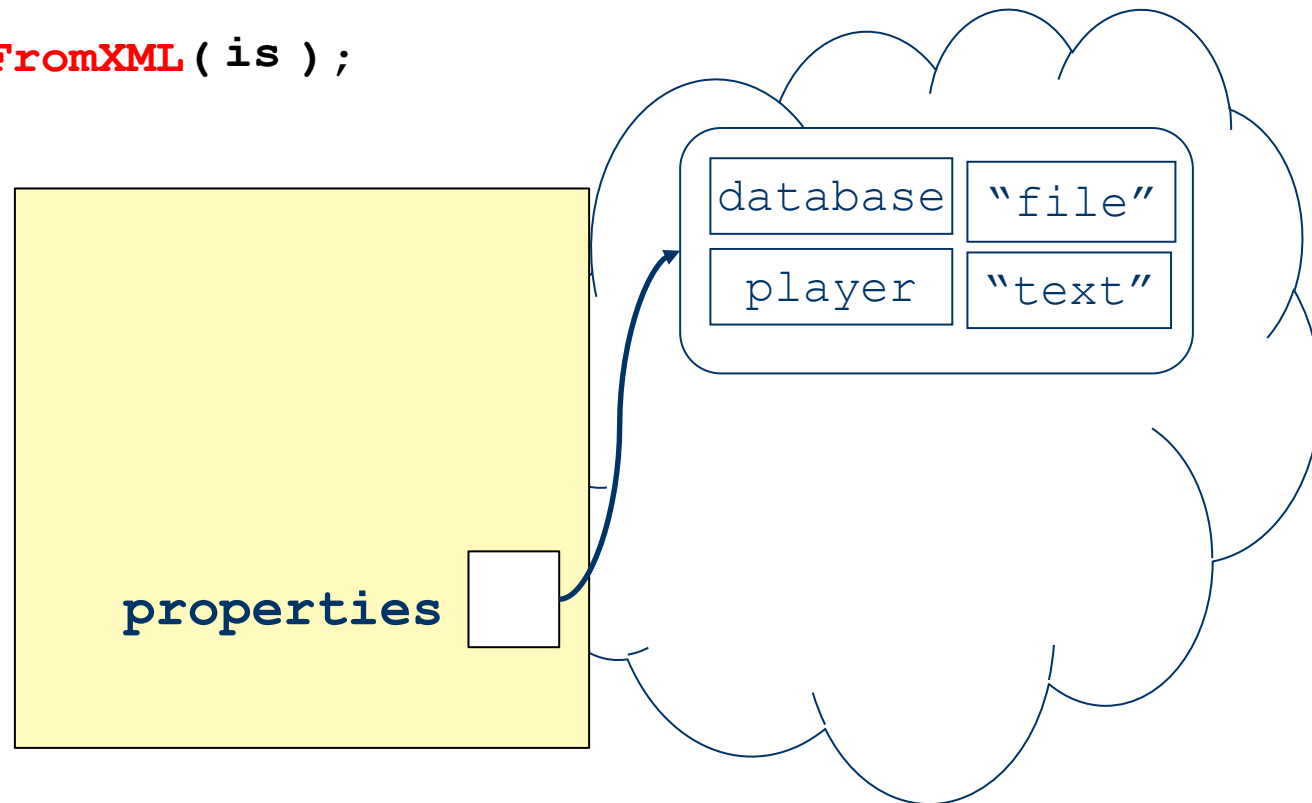
Read XML file

```
Properties properties = new Properties();
```

```
InputStream is = new FileInputStream("player.properties");
```

```
properties.loadFromXML(is);
```

```
is.close;
```



Alternatieven

- FileInputStream less flexible
- Alternatives
 - `ClassLoader.getResourceAsStream()`
 - `Class.getResourceAsStream()`
 - `ResourceBundle.getBundle()`

Info

- <https://docs.oracle.com/javase/8/docs/api/java/util/Properties.html>
- <http://java.sun.com/docs/books/tutorial/essential/environment/properties.html>

?