com.fr.stable.fun.FunctionDefContainer

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AbstractFunctionFunctionDefContainerAbstractFunctionFunctionDefContainer

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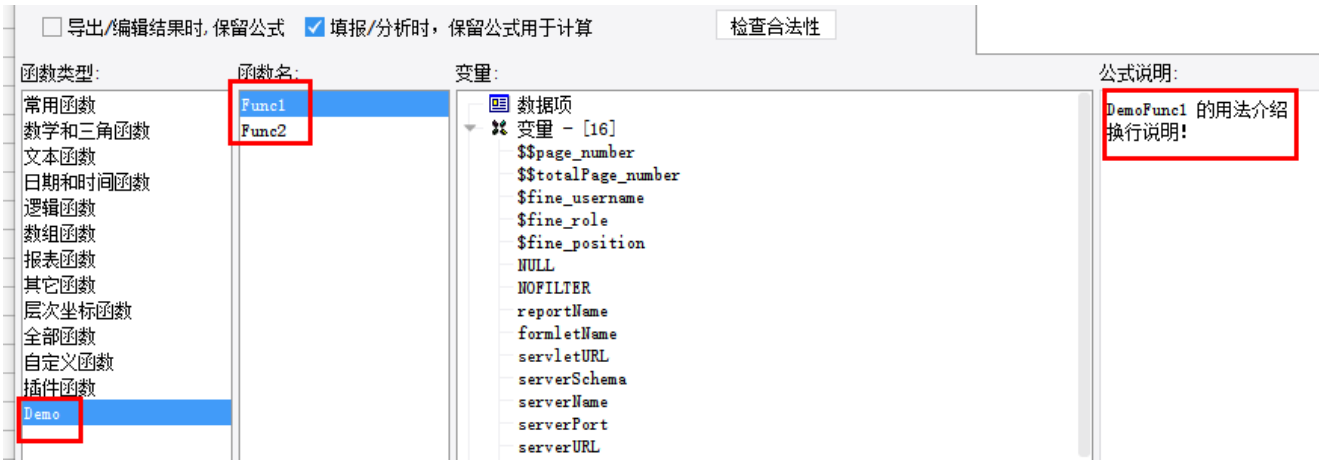

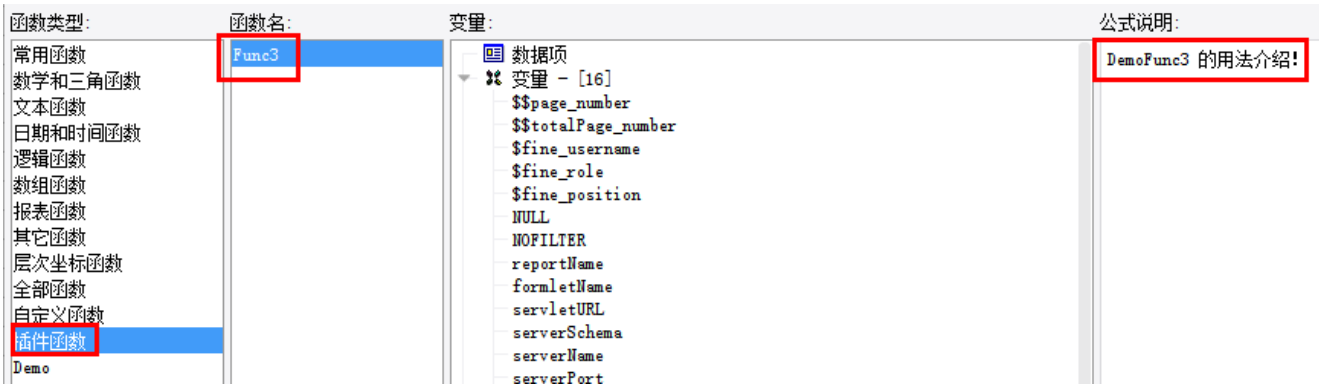

FunctionDefContainer.java

```
package com.fr.stable.fun;

import com.fr.stable.fun.mark.Mutable;
import com.fr.stable.script.FunctionDef;

/**
 *
 */
public interface FunctionDefContainer extends Mutable {

        int CURRENT_LEVEL = 1;

        String MARK_STRING = "FunctionGroup";

        /**
         *
         * @return
         */
         FunctionDef[] getFunctionDefs();
        /**
         *
         * @return
         */
         String getGroupName();
}
```

FunctionDef.java

```
package com.fr.stable.script;

import com.fr.plugin.injectable.SpecialLevel;
import com.fr.stable.StringUtils;
import com.fr.stable.fun.FunctionDefineProvider;
import com.fr.stable.xml.XMLPrintWriter;
import com.fr.stable.xml.XMLable;
import com.fr.stable.xml.XMLableReader;

/**
 *
 */
//// TODO: 2017/12/14  holder
public class FunctionDef implements FunctionDefineProvider, XMLable {

        public static final String XML_TAG = SpecialLevel.FunctionDef.getTagName();

        public static final int CURRENT_LEVEL = 1;

        private String name = StringUtils.EMPTY;
        private String description = StringUtils.EMPTY;

        private String className;

        /**
         *
         */
        public FunctionDef() {
                this(StringUtils.EMPTY, StringUtils.EMPTY);
        }

        /**
         * @param name
         * @param className
         */
        public FunctionDef(String name, String className) {
                this(name, StringUtils.EMPTY, className);
```

```
    }

    /**
     * @param name
     * @param description
     * @param className
     */
    public FunctionDef(String name, String description, String className) {
            this.setName(name);
            this.setDescription(description);

            this.setClassName(className);
    }

    public int currentAPILevel() {
            return CURRENT_LEVEL;
    }

    /**
     * @return
     */
    public String getName() {
            return this.name;
    }

    /**
     *
     */
    public void setName(String name) {
            this.name = name;
    }

    /**
     * @return
     */
    public String getDescription() {
            return description;
    }

    /**
     *
     */
    public void setDescription(String description) {
            this.description = description;
    }

    /**
     * @return
     */
    public String getClassName() {
            return className;
    }

    /**
     *
     */
    public void setClassName(String className) {
            this.className = className;
    }

    public void readXML(XMLableReader reader) {

    }

    public void writeXML(XMLPrintWriter writer) {

    }

@Override
public boolean equals(Object obj) {
    return obj instanceof FunctionDef && name != null && name.equals(((FunctionDef) obj).name);
```

```
    }

    @Override
    public int hashCode() {
        return name == null ? 0 : name.hashCode();
    }

    public Object clone() throws CloneNotSupportedException {
                return super.clone();
        }
}
```

Function.java

```
//
// Source code recreated from a .class file by IntelliJ IDEA
// (powered by Fernflower decompiler)
//

package com.fr.stable.script;

import com.fr.stable.UtilEvalError;
import java.io.Serializable;
import java.util.Locale;

public interface Function extends Serializable {
    Function.Type MATH = new Function.Type();
    Function.Type TEXT = new Function.Type();
    Function.Type DATETIME = new Function.Type();
    Function.Type LOGIC = new Function.Type();
    Function.Type ARRAY = new Function.Type();
    Function.Type REPORT = new Function.Type();
    Function.Type HA = new Function.Type();
    Function.Type OTHER = new Function.Type();
    Function.Type DELETE = new Function.Type();

    void setName(String var1);

    CalculatorProvider getCalculatorProvider();

    void setCalculator(CalculatorProvider var1);

    /** @deprecated */
    @Deprecated
    String getCN();

    /** @deprecated */
    @Deprecated
    String getEN();

    String getDescription(Locale var1);

    Function.Type getType();

    Object evalExpression(Node[] var1) throws UtilEvalError;

    public static final class Type {
        private Type() {
        }
    }
}
```

AbstractFunction.java

```
package com.fr.script;
```

```
import com.fr.common.annotations.Open;
import com.fr.locale.InterProviderFactory;
import com.fr.stable.Primitive;
import com.fr.stable.UtilEvalError;
import com.fr.stable.exception.FormulaException;
import com.fr.stable.script.Node;

/**
 * /.
 *
 * @author richie
 * created on 2020-09-04
 */
@Open
public abstract class AbstractFunction extends CalculatorEmbeddedFunction {

    /**
     * .
     *
     * @param arguments
     * @return
     * @throws UtilEvalError
     */
    @Override
    public Object evalExpression(Node[] arguments) throws UtilEvalError {

        Object returnValue;
        if (this.getType() == HA) {
            //eval
            returnValue = tryRun(arguments);
        } else {
            Object[] args = new Object[arguments.length];
            for (int i = 0; i < arguments.length; i++) {
                args[i] = this.getCalculatorProvider().evalValue(arguments[i]);
            }
            returnValue = tryRun(args);
        }

        if (returnValue == Primitive.ERROR_VALUE || returnValue == Primitive.ERROR_NAME) {
            log(InterProviderFactory.getProvider().getLocText("Fine-Core_Base_NS_Cell_Formula") + toString());
        }

        return returnValue;
    }

    /**
     * .
     *
     * @return
     */
    @Deprecated
    public Calculator getCalculator() {
        return (Calculator) getCalculatorProvider();
    }

    private Object tryRun(Object[] args) throws UtilEvalError {

        try {
            return run(args);
        } catch (FormulaException fe) {
            throw new UtilEvalError(fe);
        }
    }

    /**
     * .
     *
     * @param args
     * @return
     * @throws FormulaException
     */
```

```
    public abstract Object run(Object[] args) throws FormulaException;


}
```

FR	8.0		
FR	9.0		
FR	10.0		
BI	3.6		
BI	4.0		
BI	5.1		
BI	5.1.2		
BI	5.1.3		

plugin.xml

```
<extra-core>
        <!--  -->
    <FunctionGroup class="your class name"/>
        <!--  -->
        <FunctionDefineProvider class="your class name"
                                name="" description=""/>
</extra-core>
```

ExtraClassManagermountSpecificaddFunctionDefxmlclass/name/description FunctionDeffunctionsFunctionDefineProvider DefaultNameSpaceDefaultNameSpace#getMethod ExtraClassManagerfunctions

demodemo-function-def-container

demo-function-fibonacci

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