pt.tecnico.uilib.forms

<> Field — Type: Class

FieldBoolean — <<binds>> Type → Boolean
FieldInteger — <<bind>> Type → Integer
FieldNone — <<binds>> Type → void

<<bind>> Type → String — **FieldOption**
<<bind>> Type → Double — **FieldReal**
<<binds>> Type → String — **FieldString**

Form — -fields

→ IOException

Exception

FormException

\#<<Final>> form

RunTimeException

Dialog — -ui, -backend, ui

<<interface>> InteractionDriver

-ui

Display

\#<<Final>> display

<<interface>> Autocloseable

pt.tecnico.uilib.menus

Menu — -commands

<> Command — <<throws>> → **<> CommandException**

<<bind>> Type → Menu

doOpenMenu

\#_valid

Predicate — T: Class

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RunTimeEOFException

<<interface>> TextInteraction — -log, -out

PrintStream — -streams

CompositePrintStream

BufferedReader — -in

Form

```
--vi : Dialog
--title : string

--fields : Map<string, Field<?>>
```

```
+title() : string
+entries() : Collection<Field<?>>
+Field(key : string) : Field<?>
+add(key : string, in : <Field<?>)
+addBooleanField(key : string, label : string) : void
+addStringField(key : string, label : string) : void
+addRealField(key : string, label : string) : void
+addIntegerField(key : string, label : string) : void
+addOptionField(key : string, label : string, options : string...) : void
+get(key : string, type : string) : Object
+booleanField(key : string) : Boolean
+stringField(key : string) : String
+OptionField(key : string) : String
+realField(key : string) : Double
+integerField(key : string) : Integer
+parse() : Form
+parse(clear : boolean) : Form
+clear() : void
+confirm(prompt : string) : Boolean
+requestInteger(prompt : string) : Integer
+requestReal(prompt : string) : Double
+requestString(prompt : string) : String
+requestOption(prompt : string, options : String...) : string
```

<> Command

```
--last : boolean
--title : string
# <<final>> _receiver : Receiver
# _valid : Predicate<Receiver>
- <<final>> _form : Form
# <<final>> _display : Display
```

```
+title() : string
+isLast() : boolean
+addBooleanField(key : string, prompt : string) : void
+addRealField(key : string, prompt : string) : void
+addIntegerField(key : string, prompt : string) : void
+addStringField(key : string, prompt : string) : void
+addOptionField(key : string, prompt : string, options : String...) : void
+booleanField(key : string) : Boolean
+realField(key : string) : Double
+integerField(key : string) : Integer
+stringField(key : string) : String
+OptionField(key : string) : string
+<<final>> performCommand() : void
+<<abstract>> execute() : void
```

«abstract» Field — `Type : class`

```
«abstract»
Field
```
- -_prompt : String
- -_clear : boolean
- *_value : Type

+ prompt() : String
+ set (value : Type) : void
+ value () : Type
+ clear() : void
+ dirty() : void
+ cleared () : boolean
+ isReadOnly() : boolean
+ «abstract» parse (in : string) : boolean

FieldBoolean
- «final» BOOLEAN_WORD_YES : String
- «final» BOOLEAN_WORD_NO : String
- «final» BOOLEAN_CHAR_YES : char
- «final» BOOLEAN_CHAR_NO : char

+ parse (in : string) : boolean

FieldString

+ parse(in : string) : boolean

FieldInteger

+ parse(in : string) : boolean

FieldOption
- -_options : String[]

+ parse (in : string) : boolean

FieldNone

+ parse (in : string) : boolean
+ isReadOnly() : boolean

FielReal

+ parse (in : string) : boolean

DoOpenMenu

* «final» execute() : void

Menu
- -_ui : Dialog
- -_title : String

+ title() : String
+ size() : int
+ entry (n : int) : command<?>
+ entries() : Command<?>[]
+ open() : void

CompositePrintStream
- -_error : boolean
- -_streams : Collection <PrintStream>

+ «final» add (ps : PrintStream) : void

TextInteraction
- -_writeInput : boolean

+ close() : void
+ open (menu : Menu) : void
+ fill (form : Form) : void
+ render(title : string, text : string) : void

«interface» InteractionDriver

+ open (menu : Menu) : void
+ fill (form : Form) : void
+ render(title : string, text : string) : void
+ close() : void

Dialog

- <<finals>> ACTION_CHANNEL: String
- <<final>> CHANNEL_SWING: String
- <<final>> CHANNEL_NEW_SWING: String
- <<finals>> CHANNEL_TEXT: String

+ open(menu: Menu): void
+ fill(form: Form): void
+ render(title: String, text: String): void
+ close(): void

Display

- _ui: Dialog
- _title: String
- _text: StringBuilder

+ add(toAdd: Object): Display
+ addAll(items: Collection<?>): Display
+ addLine(toAdd: Object): Display
+ <<final>> display(): void
+ <<finals>> displayText(): void
+ popup(toPop: Object): void
+ popup(toPop: Collection<?>): void
+ clear(): void