



As classes Properties, Message, Prompt form, amittidos por seu implementantes para o propósito destes diagramas.

<<abstract>> Command <Receiver>

- last: boolean  
- title: String  
# <<final>> - receiver: Receiver  
# - valid: Predicate <Receiver>  
- <<final>> - form: Form  
# <<final>> - ~~form~~ display: Display  
+ <<final>> title: String  
+ isLast(): boolean  
+ isValid(): boolean  
+ perform - command(): void  
+ execute(): void  
+ addBooleanField (key: String, prompt: String): void  
+ addRealField (key: String, prompt: String): void  
+ addIntegerField (key: String, prompt: String): void  
+ addStringField (key: String, prompt: String): void  
+ booleanField (key: String): Boolean  
+ realField (key: String): Double  
+ integerField (key: String): Integer  
+ stringField (key: String): String  
+ <<final>> performCommand(): void  
# <<abstract>> execute: void

Menu

- \_ui: Dialog  
- title: String  
- commands: Command <?>  
+ title(): String  
+ size(): int  
+ entry (n: int): Command <?>  
- entries(): Command <?>  
+ open(): void

DoOpenMenu

# <<final>> execute: void

Composite PrintStream

- streams: Collection <PrintStream>  
- error: boolean  
<<final>> add (ps: PrintStream): void

Text Instruction

- in: Buffered Reader  
- out: PrintStream  
- writeInput: boolean  
~~writeOutput~~  
- <<final>> readString (prompt: String): String  
- <<final>> readInteger: int



- ui: Dialog
- title: String
- fields: Map < String, Field < ? > >

+ title(): String  
 + entries(): Collection < Field < ? > >  
 + field(key: String): Field < ? >  
 - add(key: String, im: Field < ? >): void  
 + addBooleanField(key: String, label: String): void  
 + addStringField(key: String, label: String): void  
 + addRealField(key: String, label: String): void  
 - get(key: String, type: String): Object  
 + booleanField(key: String): Boolean  
 + stringField(key: String): String  
 + realField(key: String): Double  
 + integerField(key: String): Integer  
 + parse(): Forum  
 + parse(clean: boolean): Forum  
 + clear(): void  
 + confirm(prompt: String): Boolean  
 + requestInteger(prompt: String): Integer  
 + requestReal(prompt: String): Double  
 + requestString(prompt: String): String

## <<abstract>> Field <Type>

- prompt: String  
 - clear: boolean  
 # value: Type  
 + prompt(): String  
~~+ value(): Type~~  
 + value(): Type  
 + clear(): void  
 # dirty(): void  
 + cleared(): boolean  
 + isPropOnly(): boolean  
 + <<abstract>> parse(im: String): boolean

### Field Boolean

+ parse(im: String): boolean

### Field Integer

+ parse(im: String): boolean

### Field Real

+ parse(im: String): boolean

### Field Name

+ parse(im: String): boolean  
 + isPropOnly(): boolean

### Field String

+ parse(im: String): boolean

## <<interface>> Interaction Driver

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

### Dialog

- backend: Interaction Driver

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

## Display

- ui: Dialog
- title: String
- text: String Builder

+ add(toAdd: Object): Display  
 + addAll(items: Collection): Display  
 + addNewLine(toAdd: Object, free: boolean): Display  
 + display(): void  
~~+ pop~~  
 + popUp(toPop: Object): void  
 + popUp(toPop: Collection): void  
 + clear(): void

Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projecto (grupo 107).

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