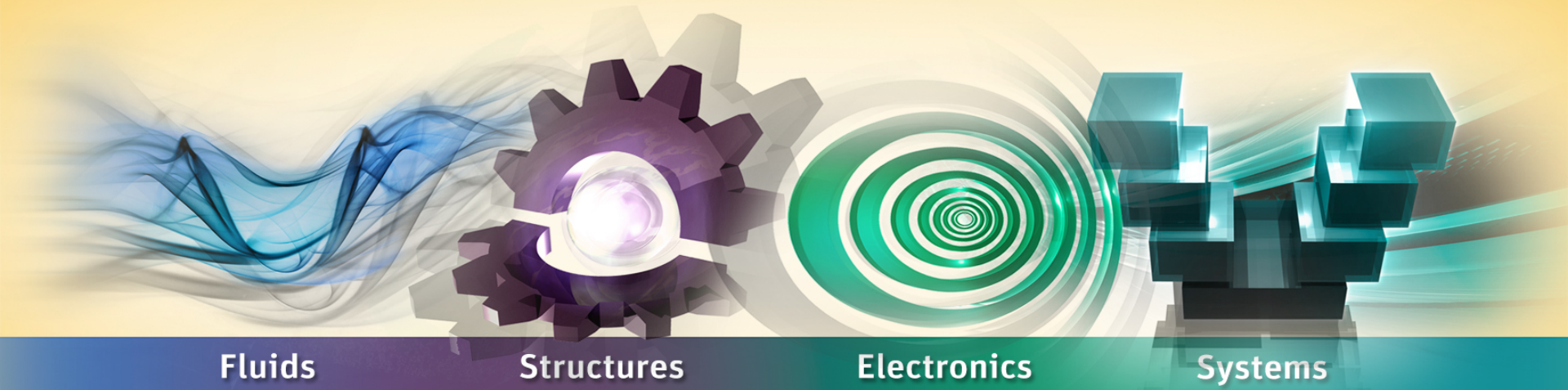


Extend the SCADE Suite Capabilities using TCL Scripts



An Example

TCL is a scripting language

And SCADE Suite makes available its UML model

→ SCADE TCL Areas:

- Model scripting
 - Checks
- SCADE IDE customization
 - Menus / Toolbars
 - Browsers
 - Properties
- Reporter
 - Settings
 - Generated report
- Generated code wrappers
 - Interfaces
 - Mappings

EXERCISE 1

Display “hello world”

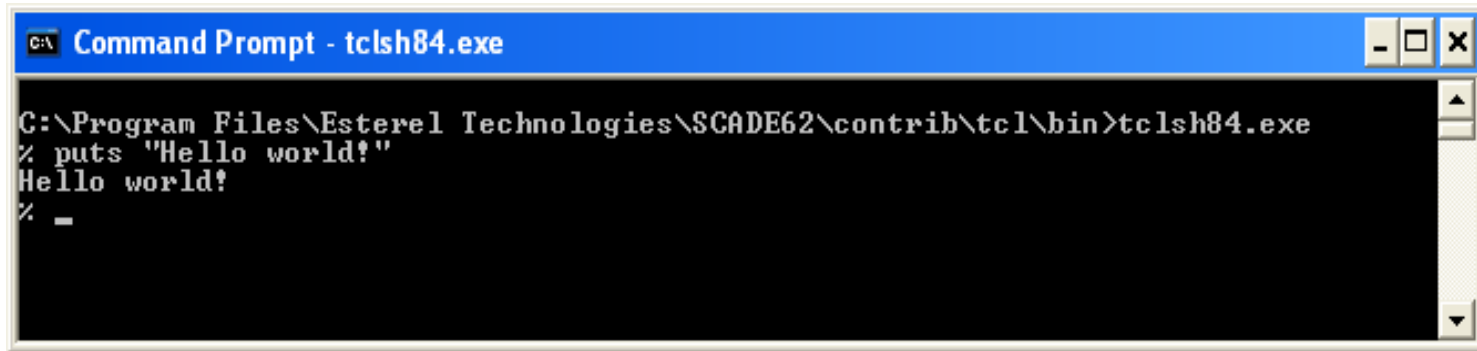
Step 1

- In a TCL shell

Step 2

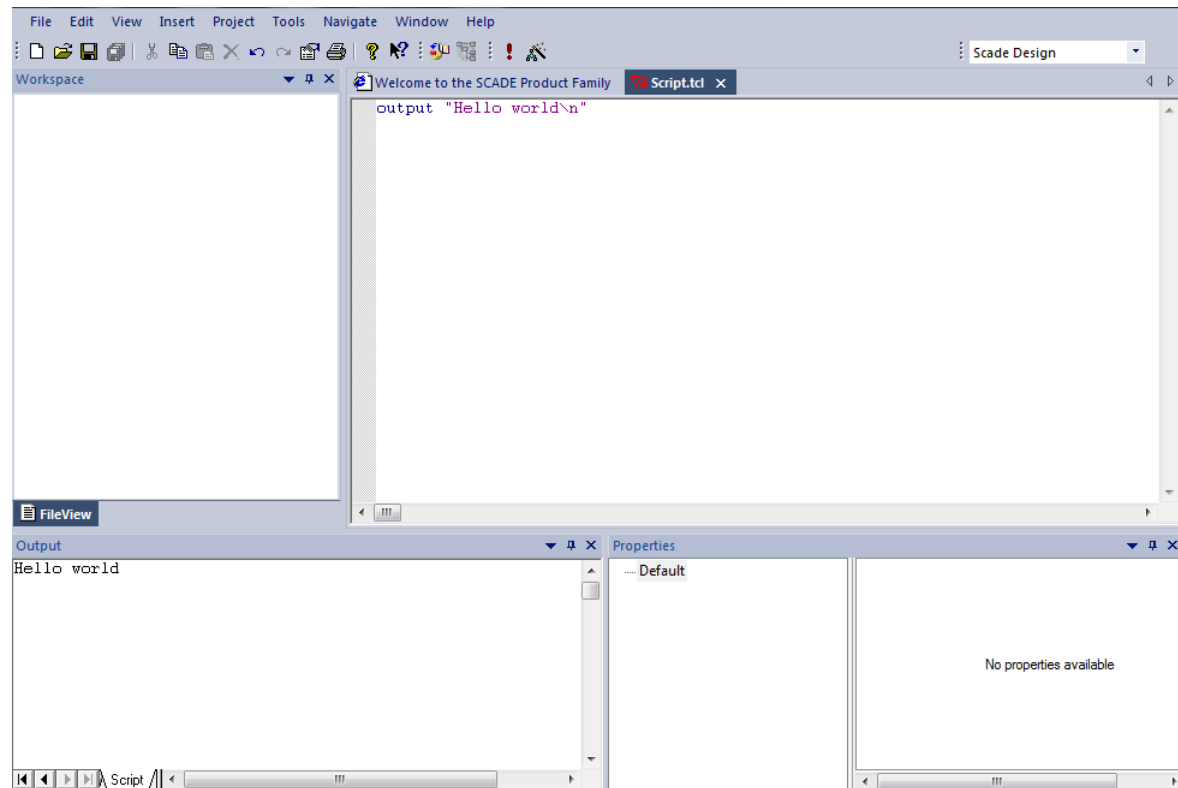
- In the SCADE IDE

Exercise 1 – Steps 1 & 2



```
Command Prompt - tclsh84.exe

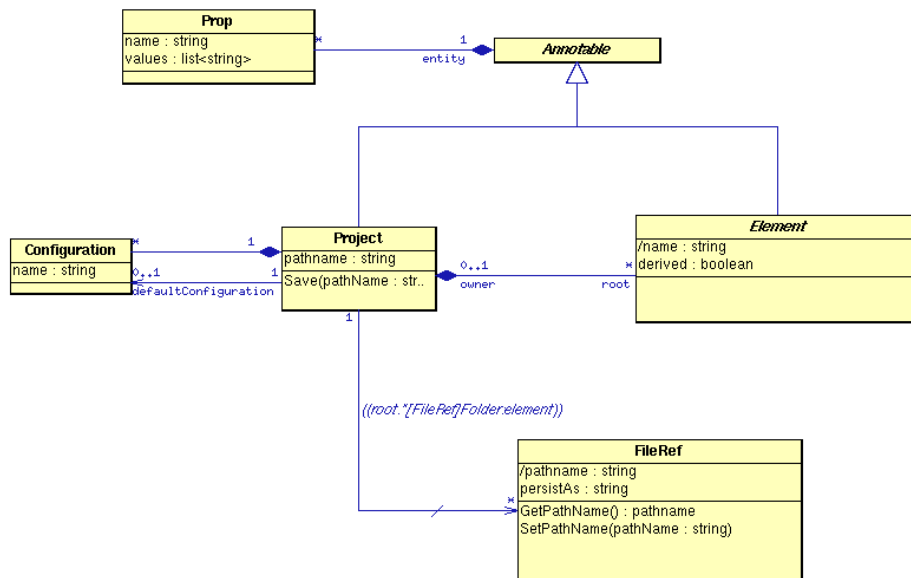
C:\Program Files\Esterel Technologies\SCADE62\contrib\tcl\bin>tclsh84.exe
% puts "Hello world!"
Hello world!
% _
```



EXERCISE 2

Create a file view, using the Script Wizard





[Create script code](#) [Copy script code](#) [Eval script code](#) [All Classes](#)

Class Project

- Attributes

Defined in	Name	Type
ProjectEntity	<u>id</u>	integer
Project	<u>pathname</u>	string

- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	<--	<u>prop</u>	Prop
Project	0+	<--	<u>configuration</u>	Configuration
	0..1		<u>defaultConfiguration</u>	Configuration
	0+		<u>fileRef</u>	FileRef
	0+	<--	<u>root</u>	Element

+ Operations



```

Welcome to the SCADE Product Family 7% Script.tcl Script Wizard 7% Script3 x
proc ForThePathname {pathname} {
  output "$pathname\n"
  return 1
}

foreach item $project {
  set vpathname [Get $item pathname]
  ForThePathname $vpasname
}

```

[Create script code](#) [Copy script code](#) [Eval script code](#) [All Classes](#)

Class Project

- Attributes

Defined in	Name	Type
ProjectEntity	id	integer
Project	pathname	string

- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◇--	prop	Prop
	0+	◇--	configuration	Configuration
	0..1		defaultConfiguration	Configuration
Project	0+		fileRef	FileRef
	0+	◇--	root	Element

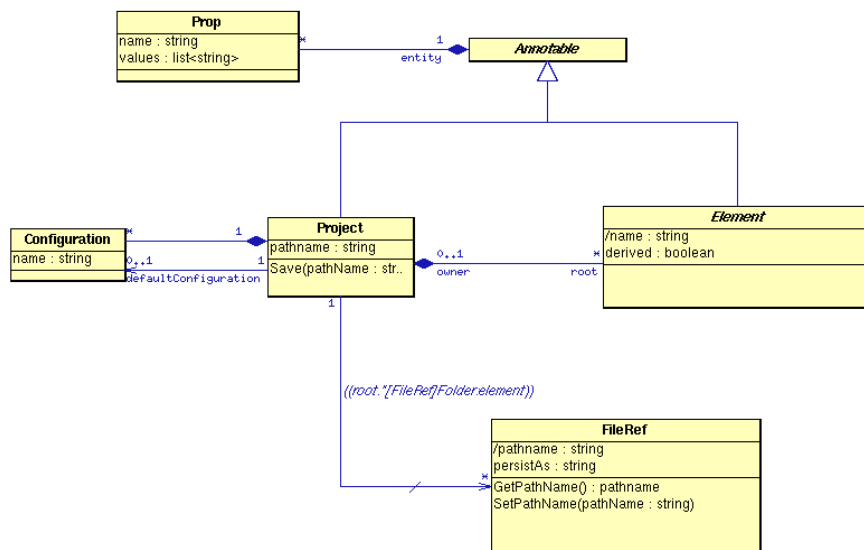
+ Operations

```

C:\Program Files (x86)\Esterel Technologies\SCADE R16\examples\Pilot\Pilot.etp

```

Messages | Script | MTC | Dump | Build | Simulator | Matlab |


[Create script code](#) [Copy script code](#) [Eval script code](#) [All Classes](#)

Class Project

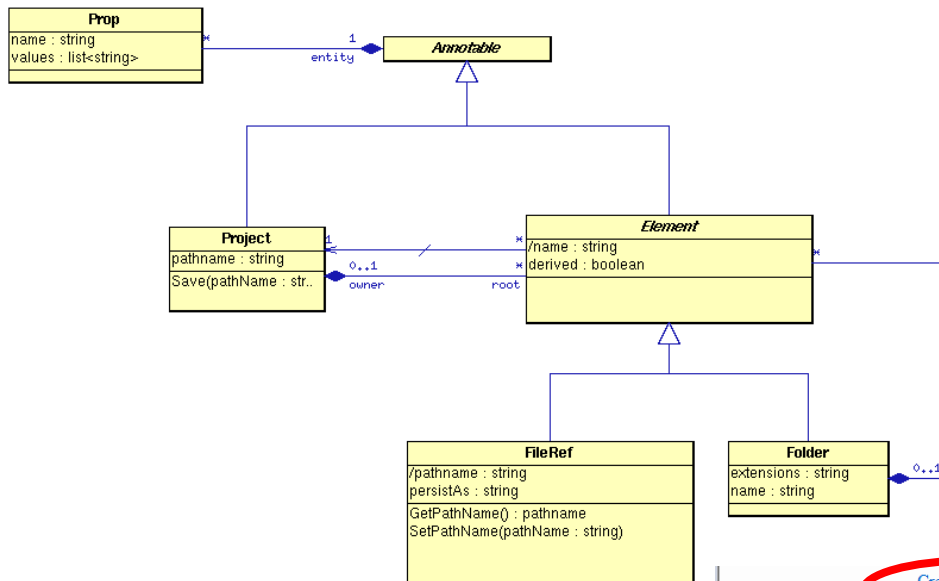
- Attributes

Defined in	Name	Type
ProjectEntity	id	integer
Project	pathname	string

- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◊--	prop	Prop
Project	0+	◊--	configuration	Configuration
	0..1		DefaultConfiguration	Configuration
	0+		fileRef	FileRef
	0+	◊--	root	Element

+ Operations


[Create script code](#) [Copy script code](#) [Eval script code](#) [All Classes](#)

Class FileRef

- Attributes

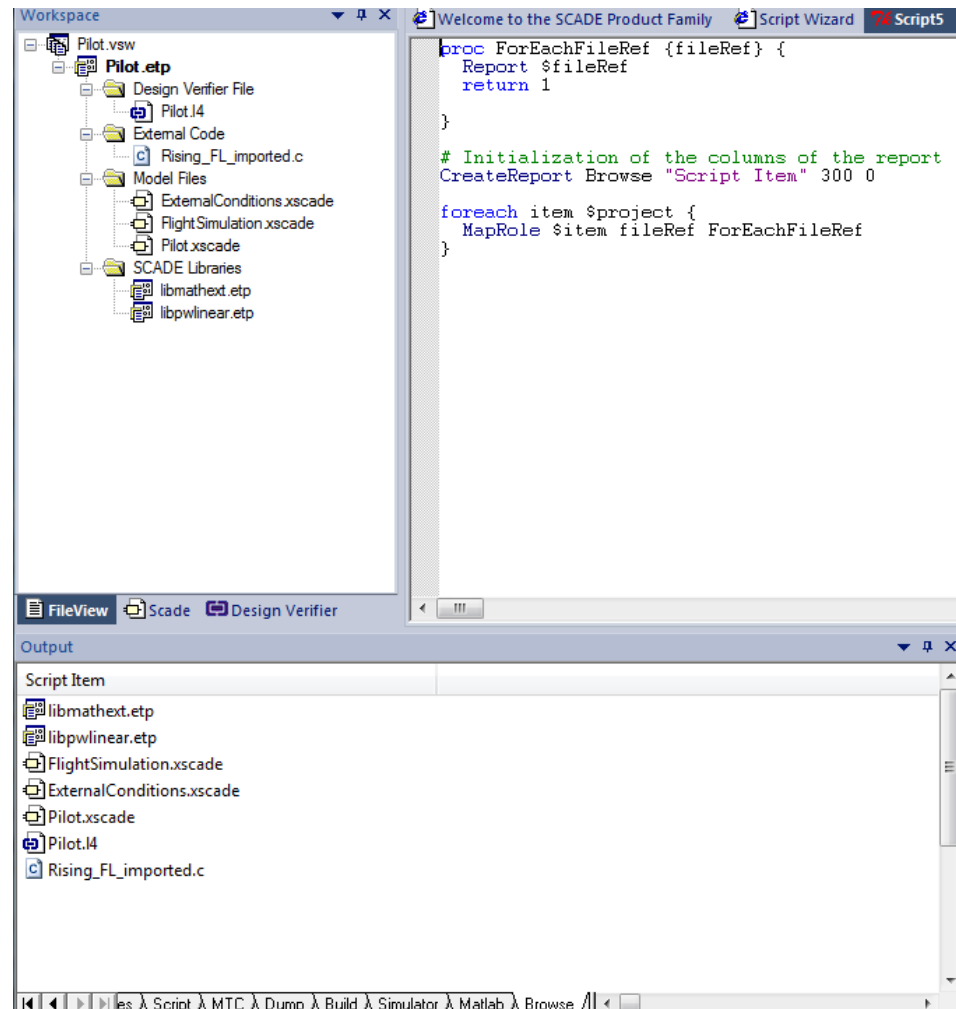
Defined in	Name	Type
ProjectEntity	id	integer
Element	derived	boolean
	name	string
	library	boolean
FileRef	pathname	string
	persistAs	string

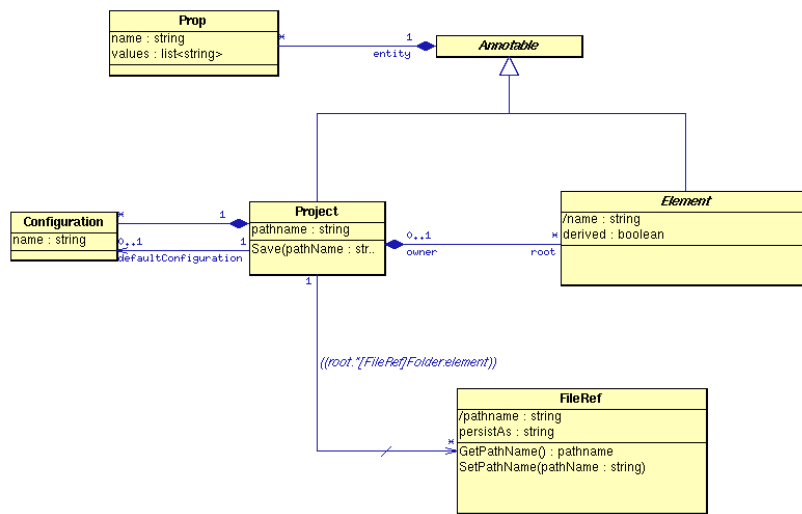
- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◊--	prop	Prop
	0..1	--◊	folder	Folder
Element	0..1	--◊	owner	Project
	0..1		project	Project

+ Operations

Script Wizard





[Create script code](#) [Copy script code](#) [Eval script code](#) [All Classes](#)

Class Project

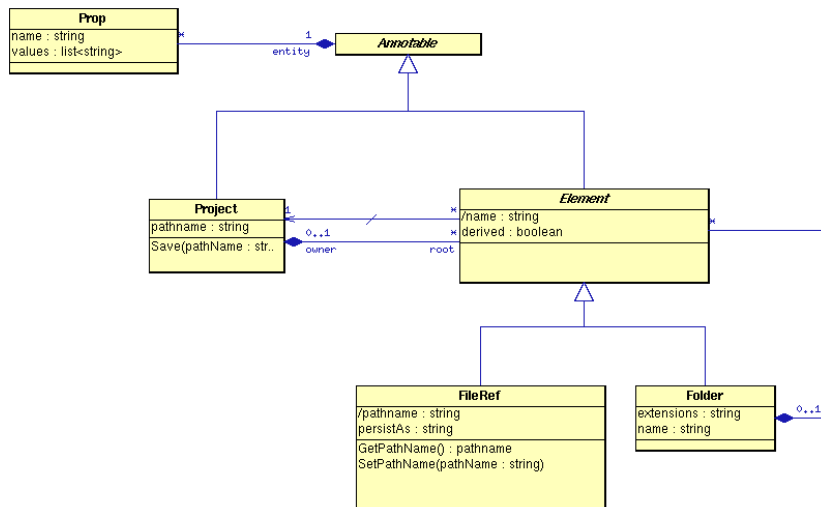
- Attributes

Defined in	Name	Type
ProjectEntity	id	integer
Project	pathname	string

- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◊--	prop	Prop
Project	0+	◊--	configuration	Configuration
	0..1		defaultConfiguration	Configuration
	0+		fileRef	FileRef
	0+	◊--	root	Element

+ Operations



Class Element

- Attributes

Defined in	Name	Type
ProjectEntity	id	integer
Element	derived	boolean
	name	string

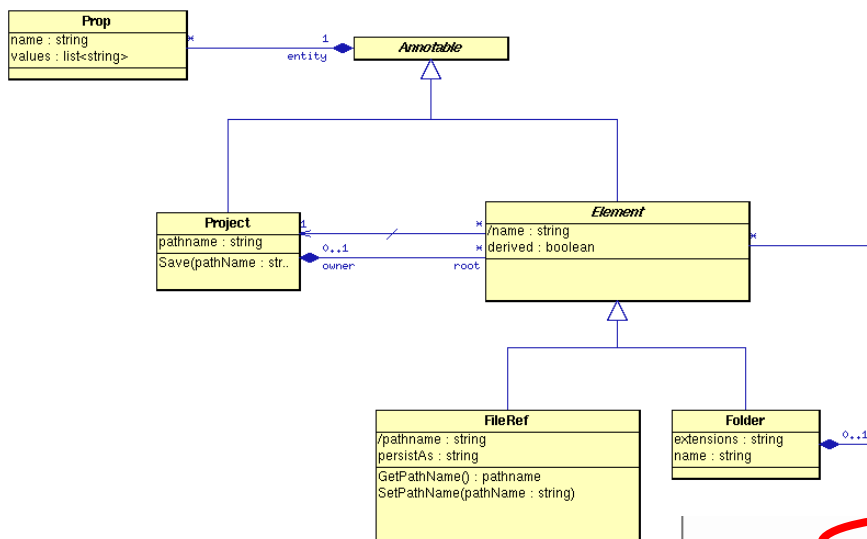
- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◇--	prop	Prop
	0..1	--◇	folder	Folder
Element	0..1	--◇	owner	Project
	0..1		project	Project

+ Operations

- Heirs

Name
[Folder](#)



[Create script code](#)
[Copy script code](#)
[Eval script code](#)
[All Classes](#)

Class Folder

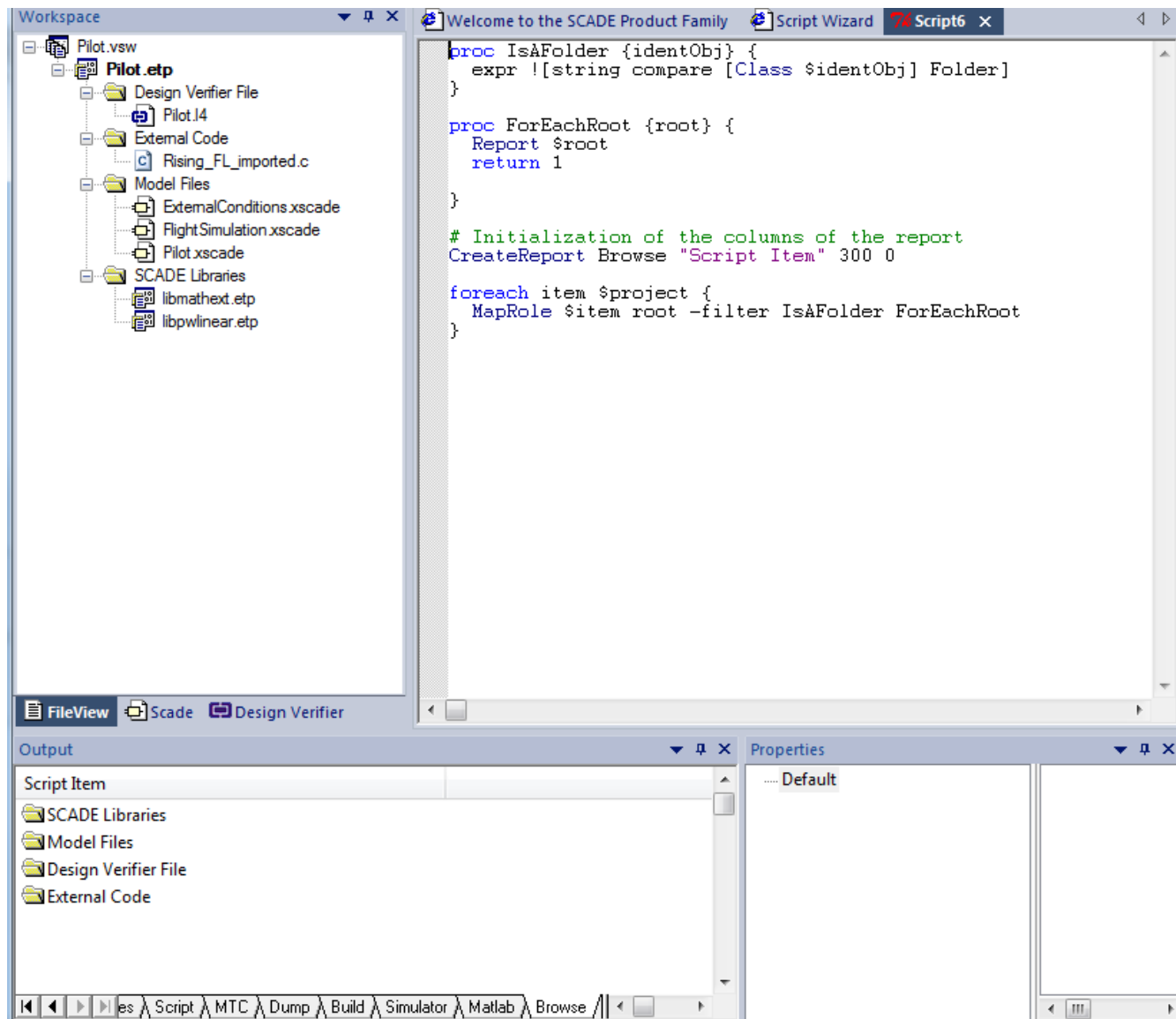
- Attributes

Defined in	Name	Type
ProjectEntity	id	integer
Element	derived	boolean
	name	string
Folder	extensions	string
	name	string

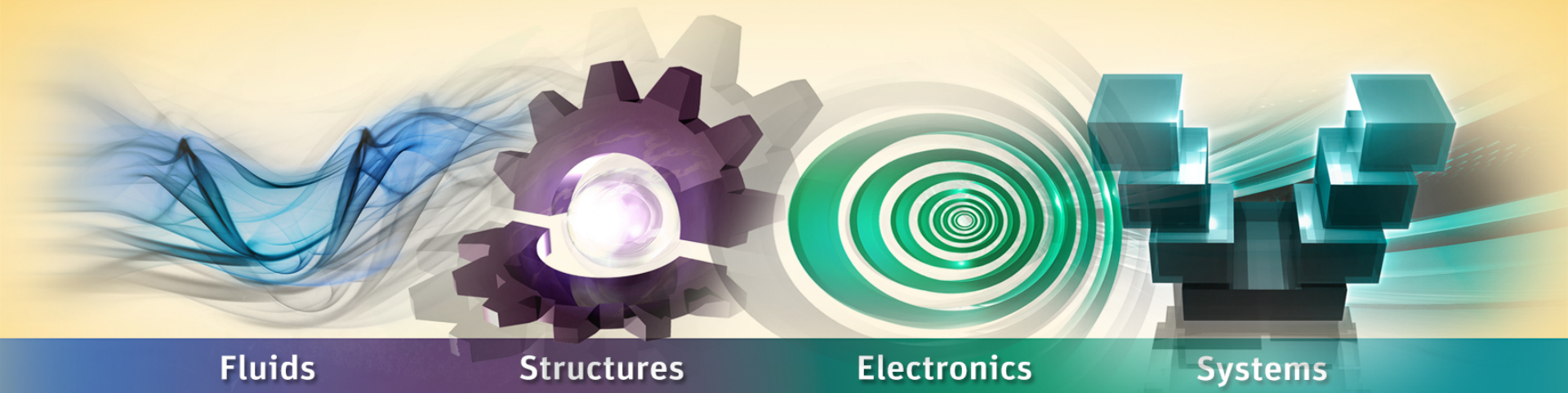
- Associations

Defined in	Multiplicity	Composition	Name	Distant class
Annotable	0+	◇--	prop	Prop
Element	0..1	--◇	folder	Folder
	0..1	--◇	owner	Project
	0..1	--◇	project	Project
Folder	0+	◇--	element	Element

+ Operations



Thank You!



Should you need to customize your Model checking, your Model Reporting or your SCADE Environment, please require the 2 days training course:

« Extend the SCADE Suite Capabilities using TCL Scripts »