

Lesson Objectives



- What is Descriptive Programming
- Descriptive programming when and why?
- How to use DP?
- Different ways to work with objects
- TO, RO and .Object
- OR Pros and Cons
- DP Pros and Cons



Descriptive Programming



What is Descriptive Programming?

- Programmatic description to instruct UFT to perform methods on objects without referring to the object repository.
- To do this, you provide UFT with a list of properties and values that UFT can use to identify the object or objects on which you want to perform a method.

Descriptive programming – when and why?



Consider using DP in following cases:

Dynamic object properties

Example: Link Logout <User Name>

Same objects on every page

Example: Buttons - Next, Back, Cancel, OK

Lots of similar objects on one page

Example: table with many First & Last name text boxes

How to use DP?

There are two ways to use DP:

I.Throw the properties and values straight into a command

II.Throw the properties & values into a description object, and use it into the syntax.



Descriptive Programming...

You can use DP with OR as shown below

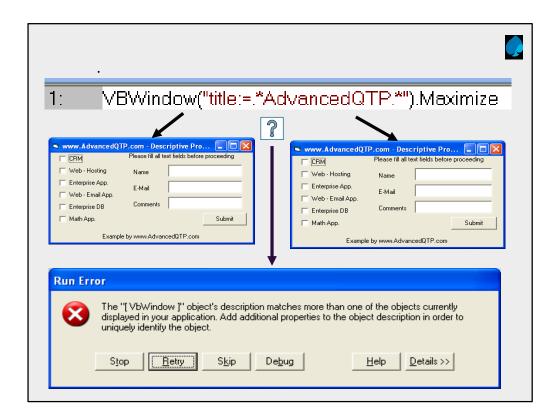
VBWindow("OR").VBButton("text:=OK").Click Or (when oDesc is a description object): VBWindow("OR").VBButton(oDesc).Click

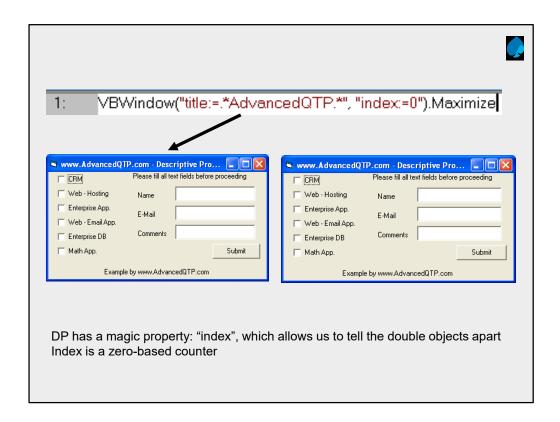
But, you can only start from OR, and move to DP So this will not work:

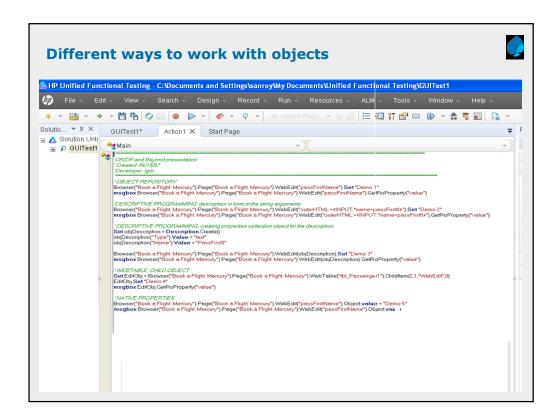
VBWindow("title:=notgood").VBButton("clickme").Click

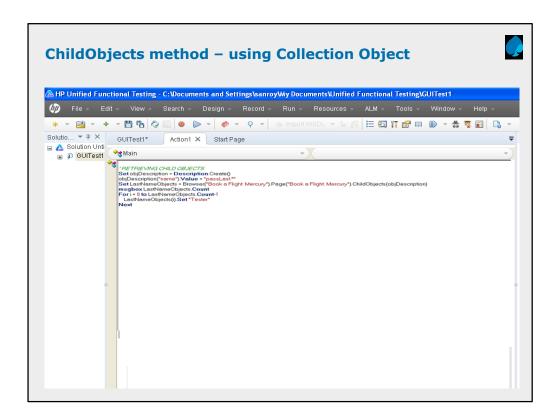
Descriptive Programming...

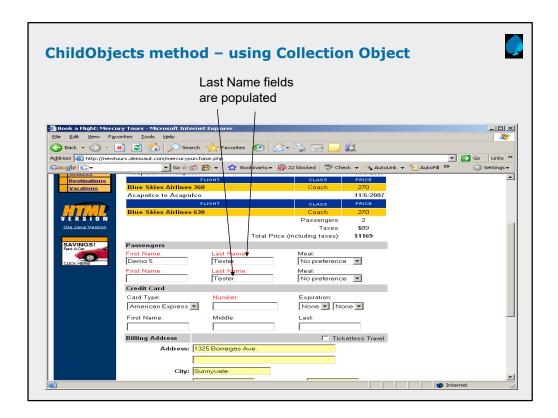
- You can store the objects in collections.
 When UFT finds two object which match the same description, it freezes













TO, RO and .Object

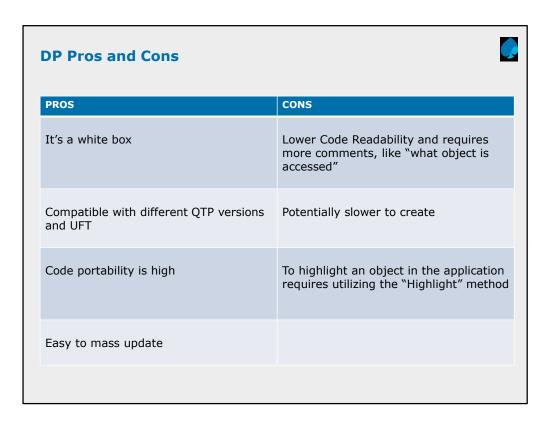
- •.GetTOproperty/SetToProperty refers to the properties stored in OR •.GetROProperty property refers to the AUT Object property (Run-time)
- •.Object.c.Object.c.Object.NATIVE
 properties/methods

Object Repository vs. Descriptive Programming –what to use?



- There really is no "best way"
- Use the method that gives your company the best ROI, whether that be Object Repository (OR), Descriptive Programming (DP) or a mixture of both

OR Pros and Cons	
PROS	CONS
GUI Front end to examine all the objects in the repository	Additional layer to maintain
Highlight in Application feature is great tool to walk the object tree	Unnecessary objects can be created
No need to modify the script when object properties changes	Multiple users cannot concurrently save/write to the shared OR
Easy to identify objects in AUT by Object Logical names	It won't eliminate the need for Descriptive Programming in most of cases
Can be created independently from scripts	



Demo

- Demo on Descriptive programming Static DP
- Demo on Descriptive programming Dynamic DP
- Demo on Descriptive programming GetTOproperty/SetToProperty
- GetROproperty



Summary



In this lesson, you have learnt

 What is Descriptive Programming
 Programmatic description to instruct UFT to perform methods on objects without referring to the object repository



- Types of Descriptive Programming Static Descriptive Programming Dynamic Descriptive Programming
- Disadvantage of Object Repository.
- When and Why Descriptive Programming

Add the notes here.