

Module 4:

Dynamic Controls

4

Overview

How to Build an Array of Controls

How to Add and Delete Controls Dynamically

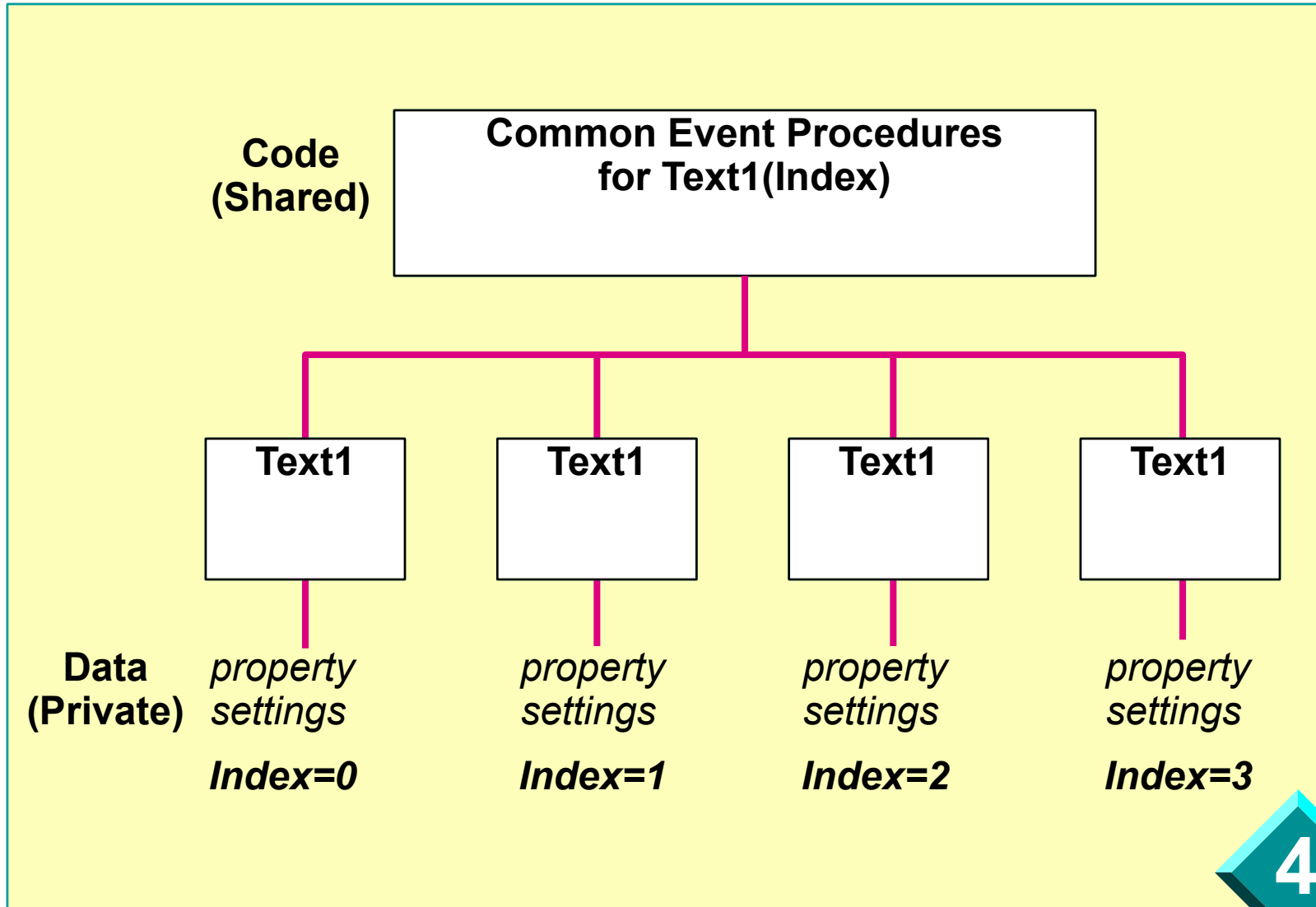
How to Use the Visual Basic Controls Collection

Creating and Using Object Variables

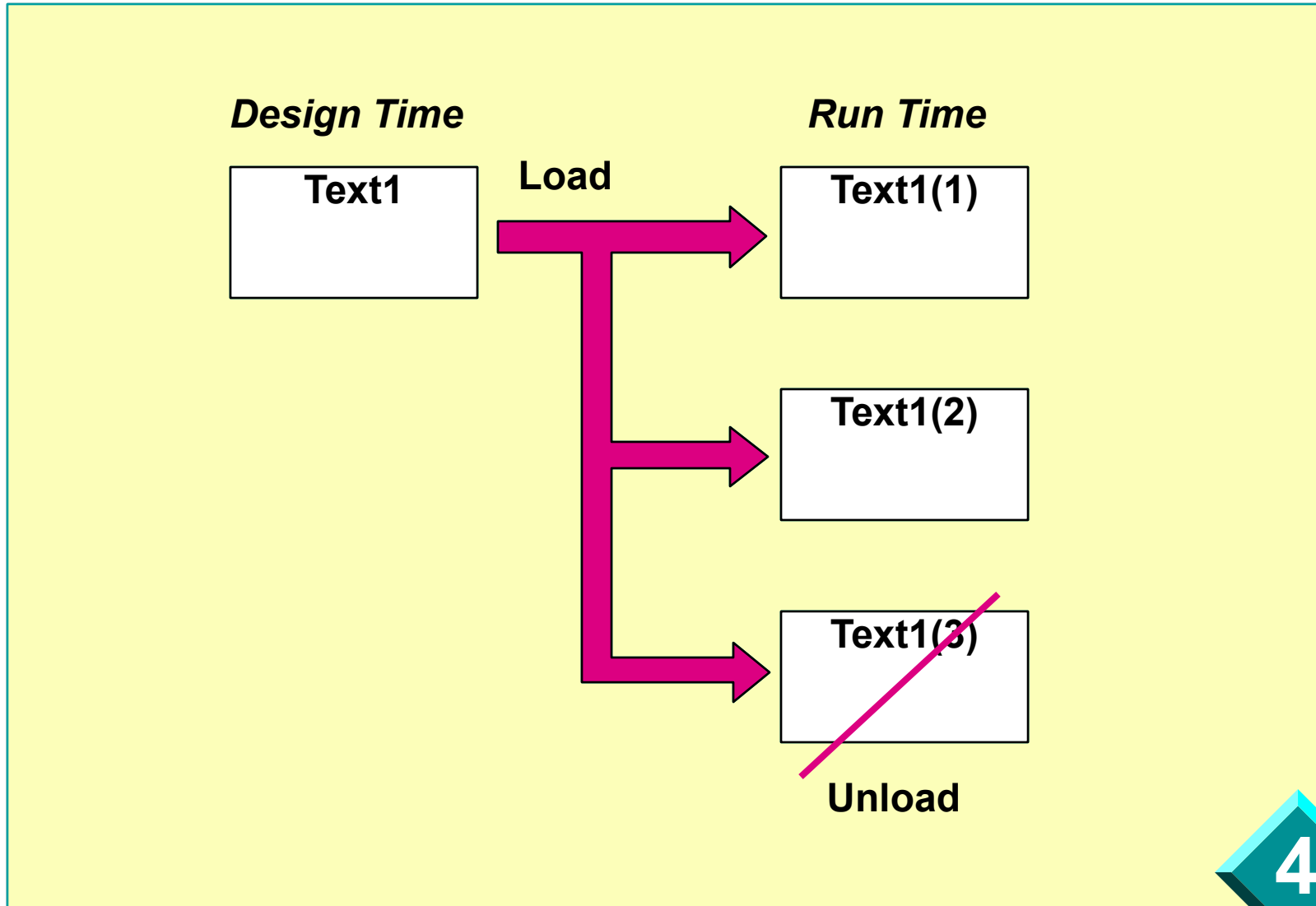
Arrays of Object Variables

**An Array That Refers to Objects on Multiple
Forms**

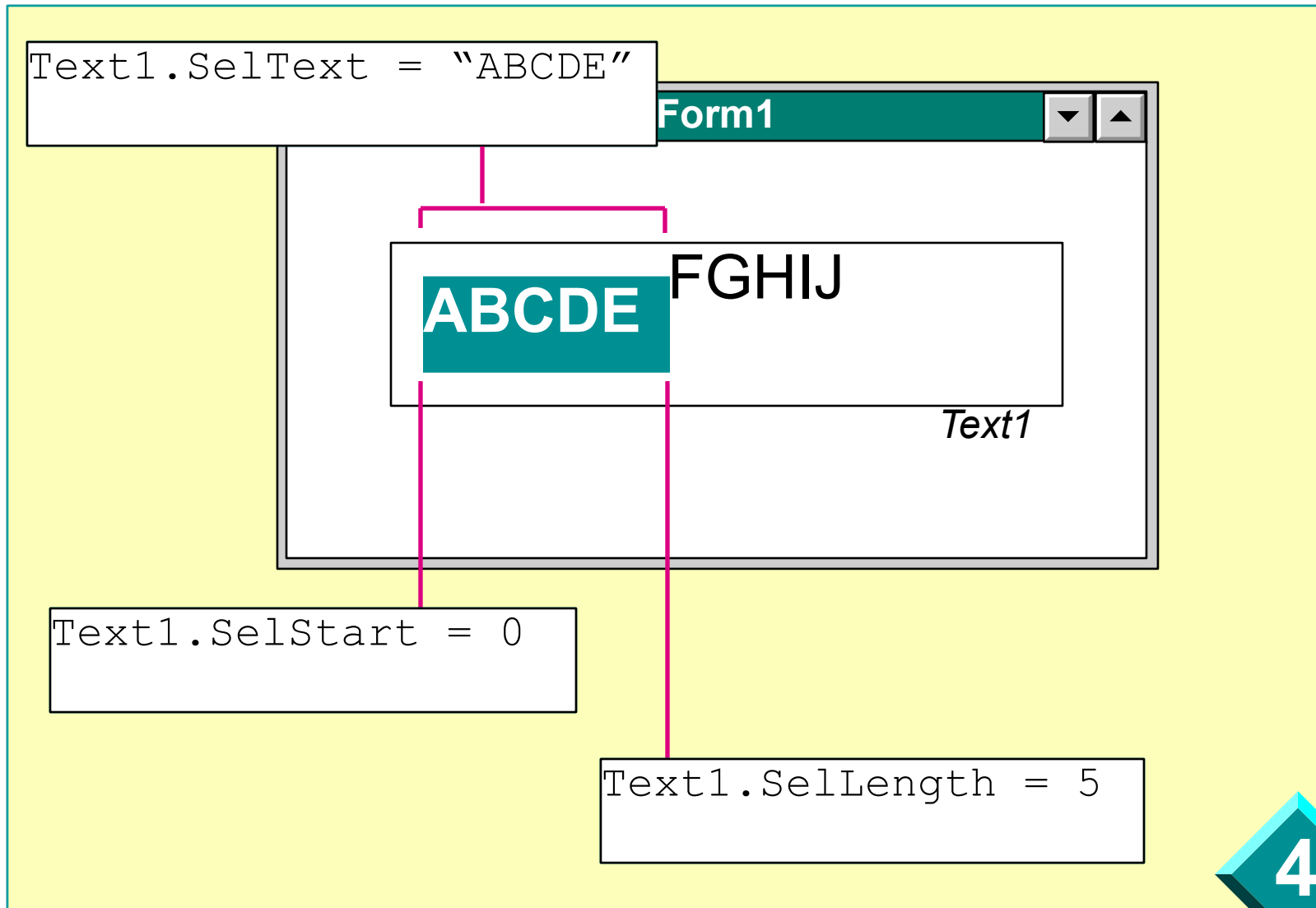
What Are Control Arrays?



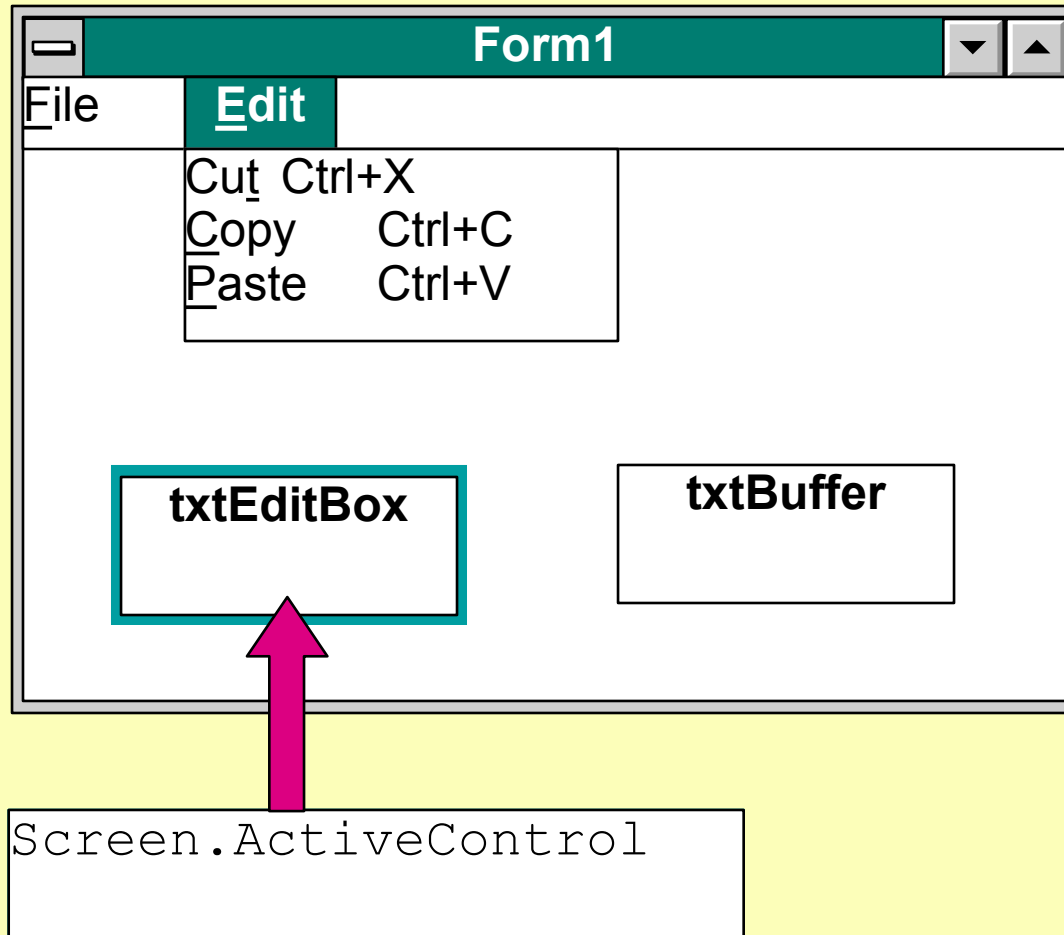
Creating Controls Dynamically



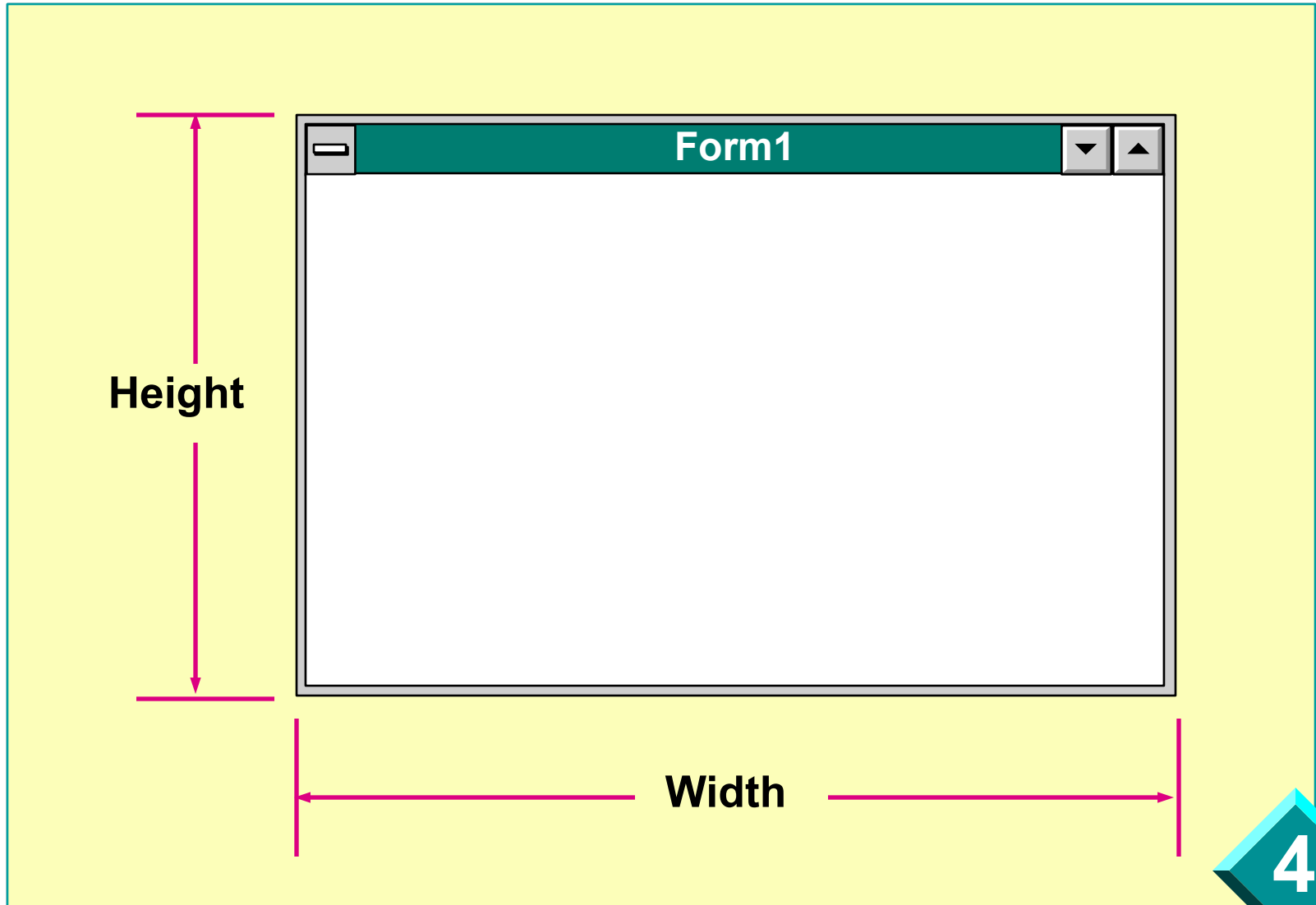
Working with Selected Text



Editing the Active Control



You May Need to Expand a Form to Fit New Controls



The Controls Collection

Using the Controls Collection

Controls(i) - Object Variable Array; Element /Control

Controls.Count - Property of Controls Collection

e.g. Controls(3).Text = "Hello World"

Test Object With: **TypeOf** object **Is** class

e.g. **If TypeOf Controls(i) Is TextBox Then**

Creating and Using Object Variables

Object Variables are “Alias” Pointers for Objects

```
Dim txt As TextBox  
Set txt = txtLastName
```

```
Dim gen As Control  
Set gen = txtLastName  
Set gen = lblLastName
```

Release Object Variables when Finished Using

Set ObjectVar = Nothing

Arrays of Object Variables

```
Dim cmd(5) As CommandButton
```

An Array That Refers to Objects on Multiple Forms

In a .BAS file

```
Global cmd(15) As CommandButton
```

In the Startup Form's Form Load Event

```
Set cmd(1) = Form1.cmdLoad  
Set cmd(6) = Form2.cmdLocate  
Set cmd(11) = Form3.cmdFilter
```

Summary

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How to Add and Delete Controls Dynamically

How to Use the Visual Basic Controls Collection

Creating and Using Object Variables

Arrays of Object Variables

**An Array That Refers to Objects on Multiple
Forms**