

Module 9: Implementing Dynamic Data Exchange

Overview

What Is Dynamic Data Exchange (DDE)?

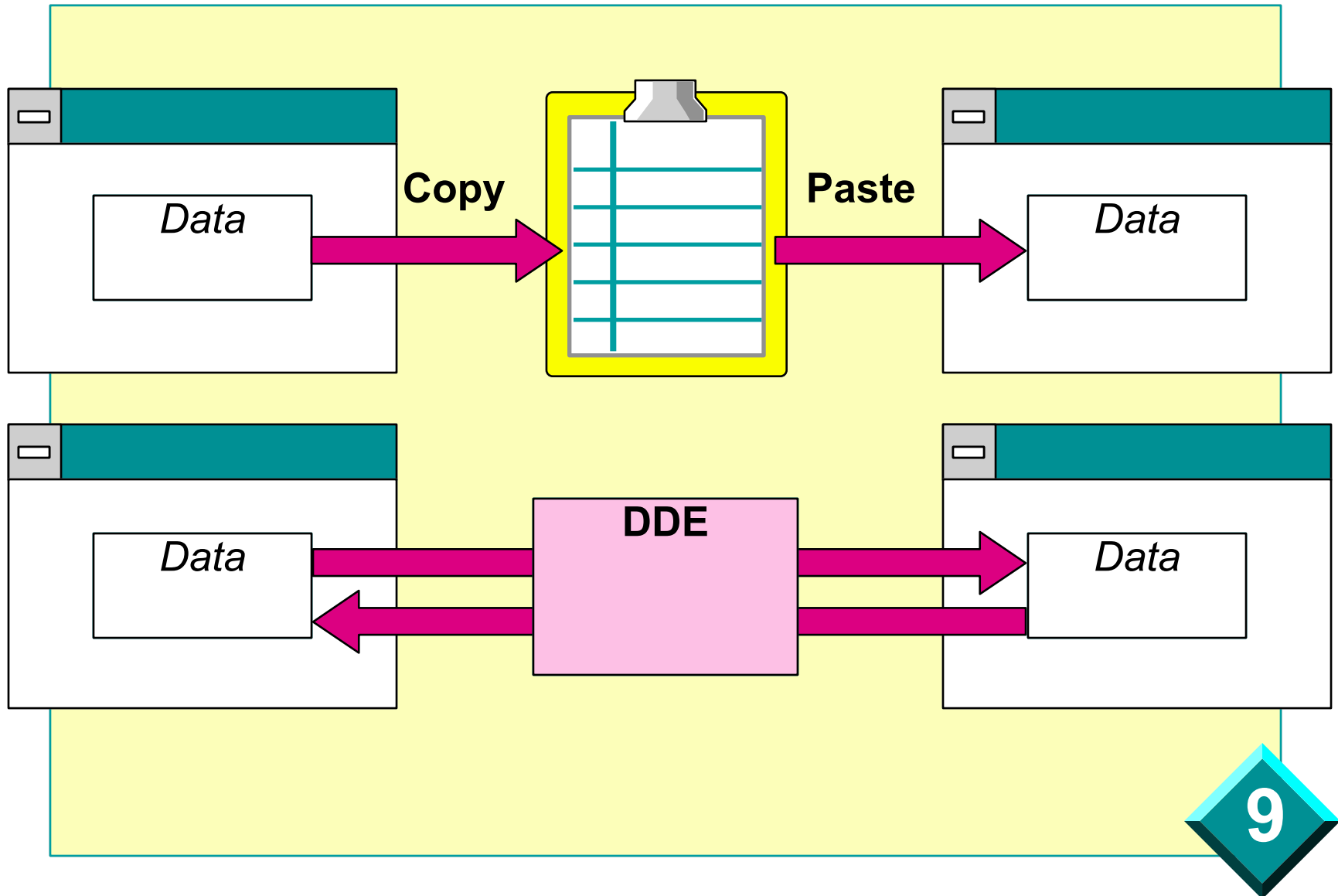
Programming a Destination Application

Programming a Source Application

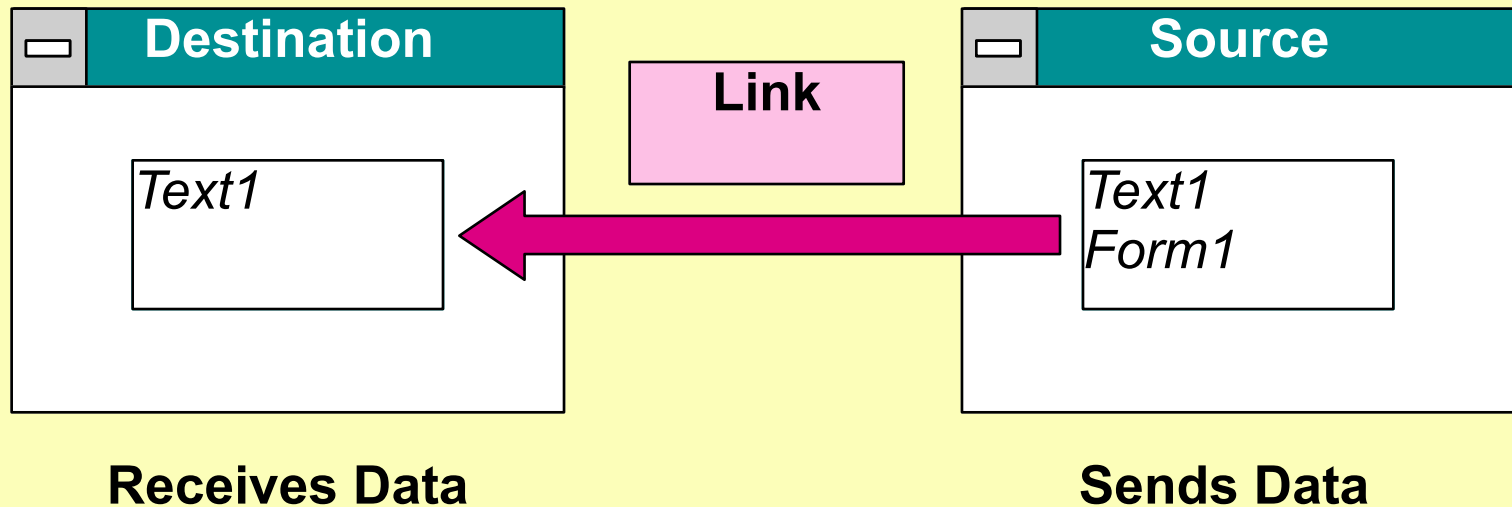
DDE with Microsoft Excel for Windows

DDE with Microsoft Word for Windows

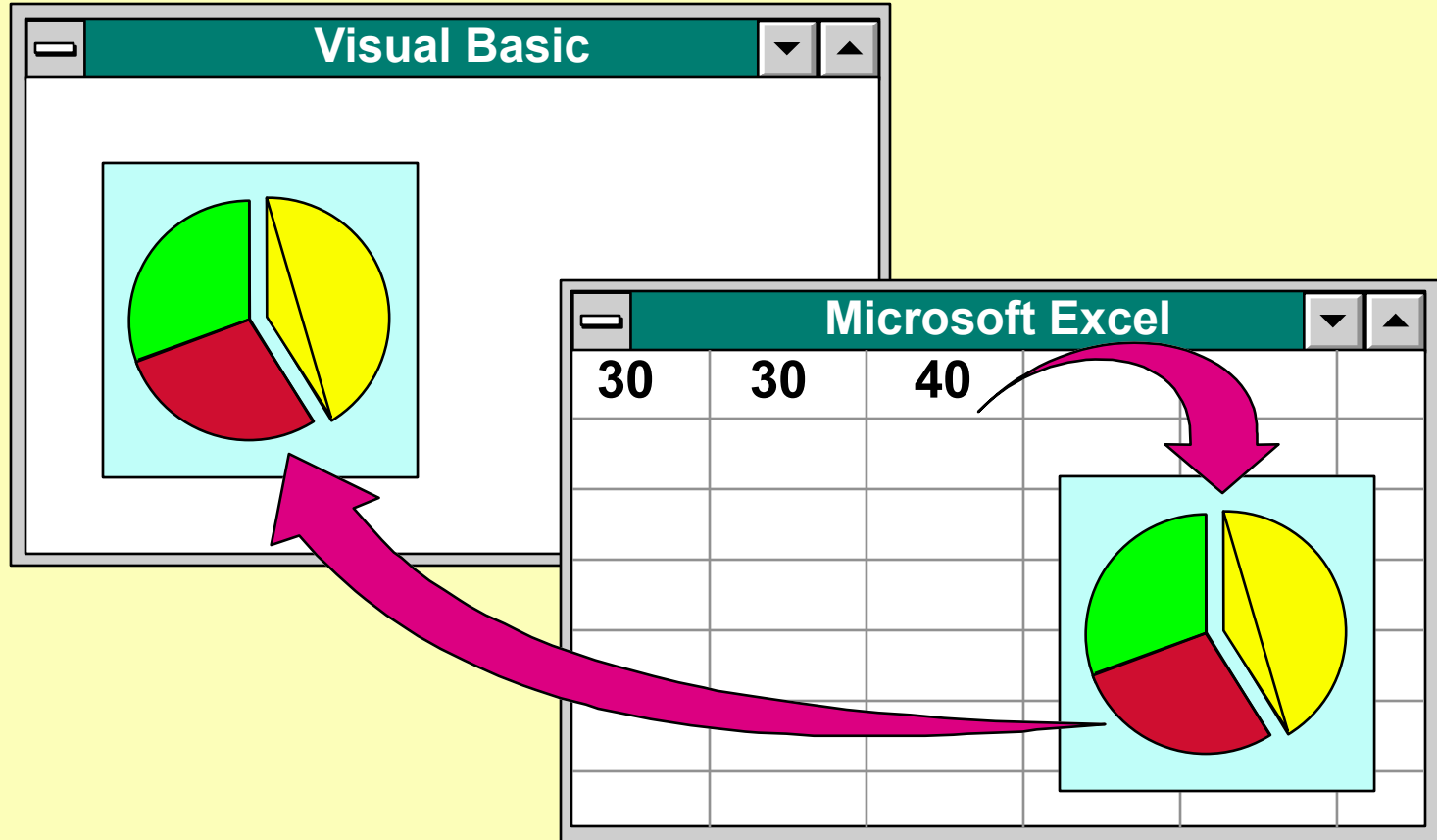
What Is Dynamic Data Exchange?



DDE Involves a Source and a Destination Application



DDE Demo

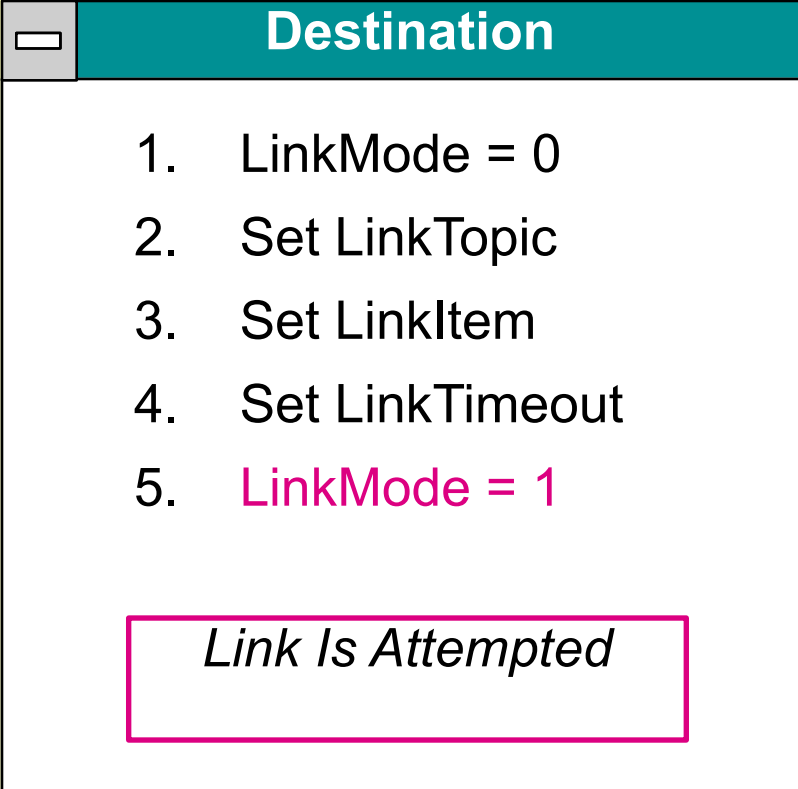


Setting Properties to Establish the Link

Destination
LinkTopic
LinkItem
LinkMode
LinkTimeout

Source
LinkTopic
LinkMode

Order of Setting Properties



Destination

1. LinkMode = 0
2. Set LinkTopic
3. Set LinkItem
4. Set LinkTimeout
5. LinkMode = 1

Link Is Attempted

DDE Events

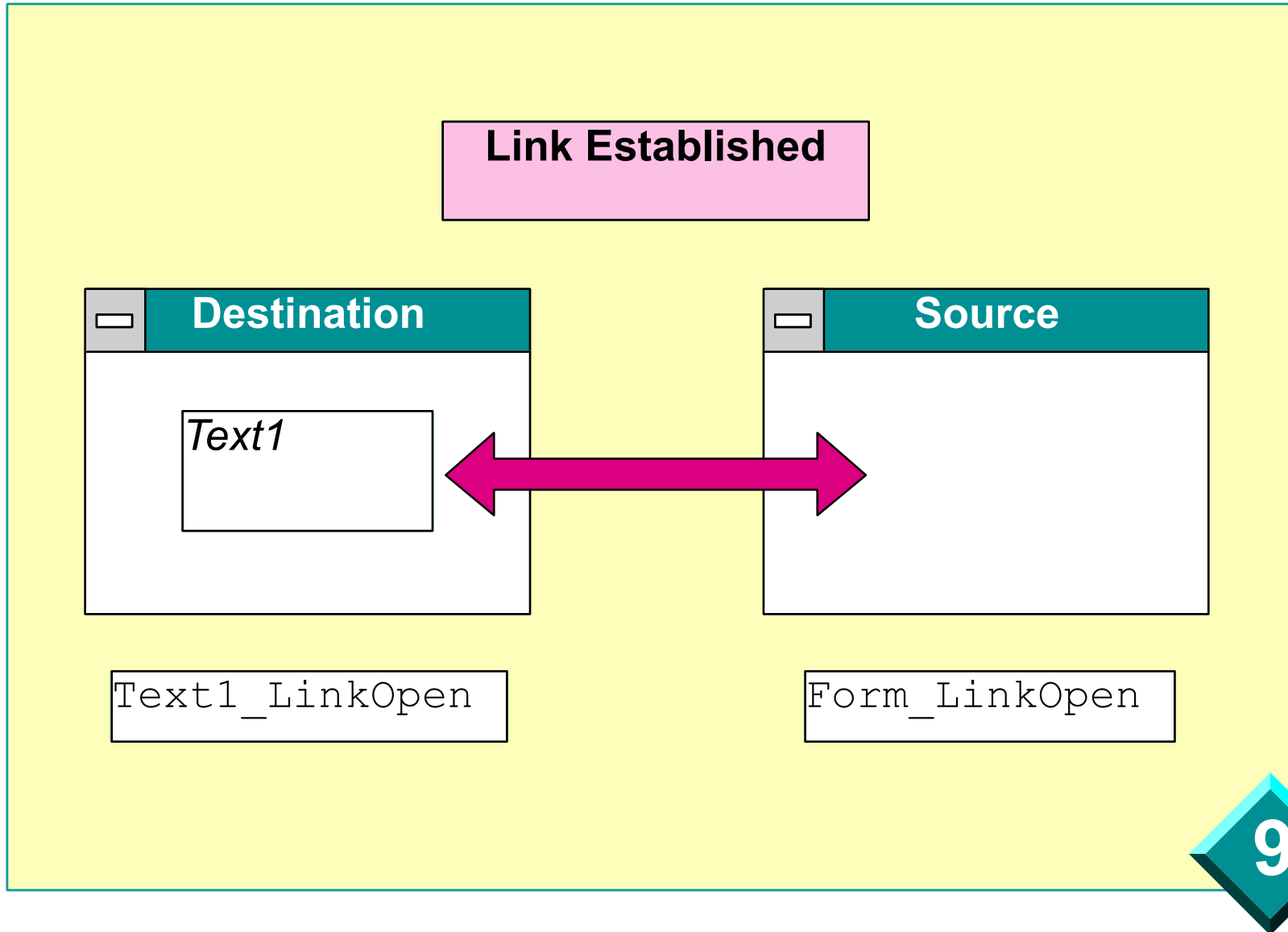
LinkOpen

LinkClose

LinkError

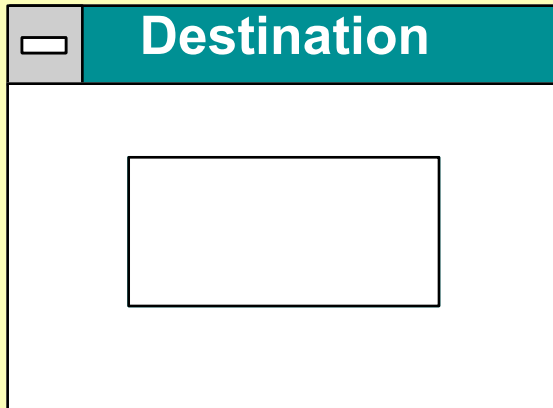
LinkNotify

LinkOpen Event Occurs When Link Is Established



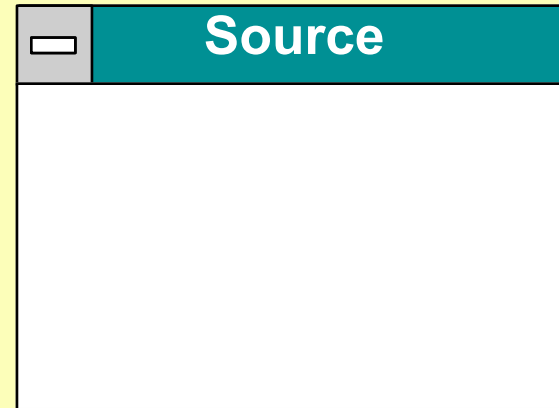
LinkClose Event Occurs When Link Is Broken

LinkMode = None



A diagram of a window titled "Destination". It has a teal header bar with a small gray button on the left. The main area is white and contains a smaller white rectangle, representing a text box or control.

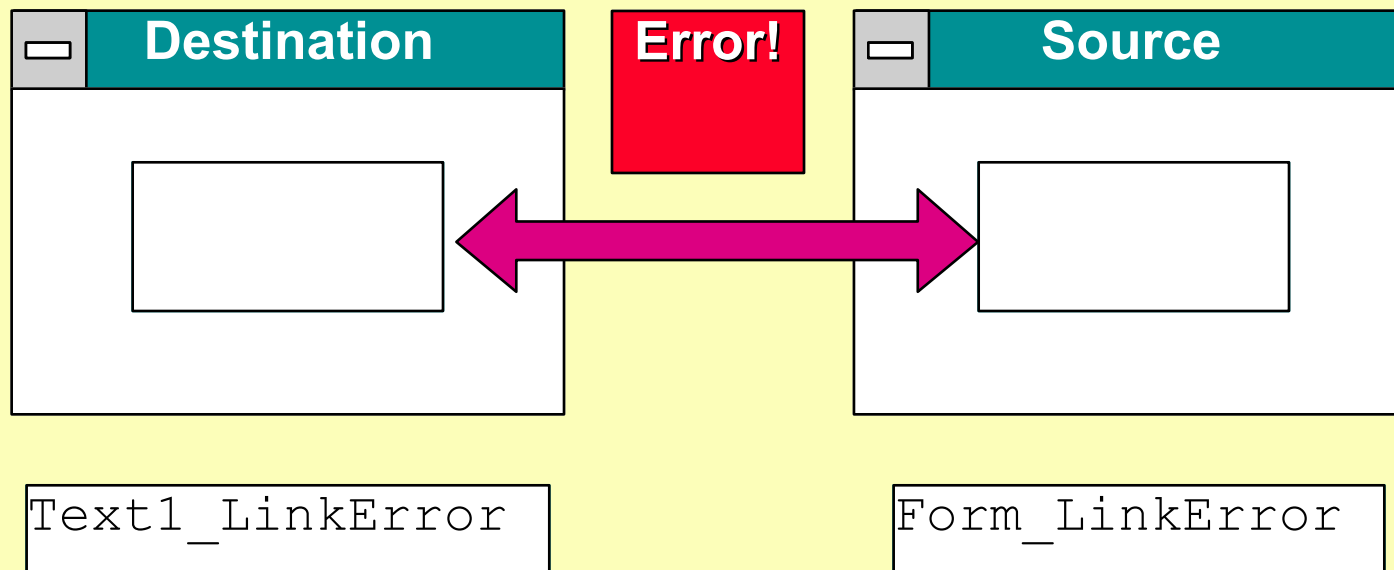
Text1_LinkClose



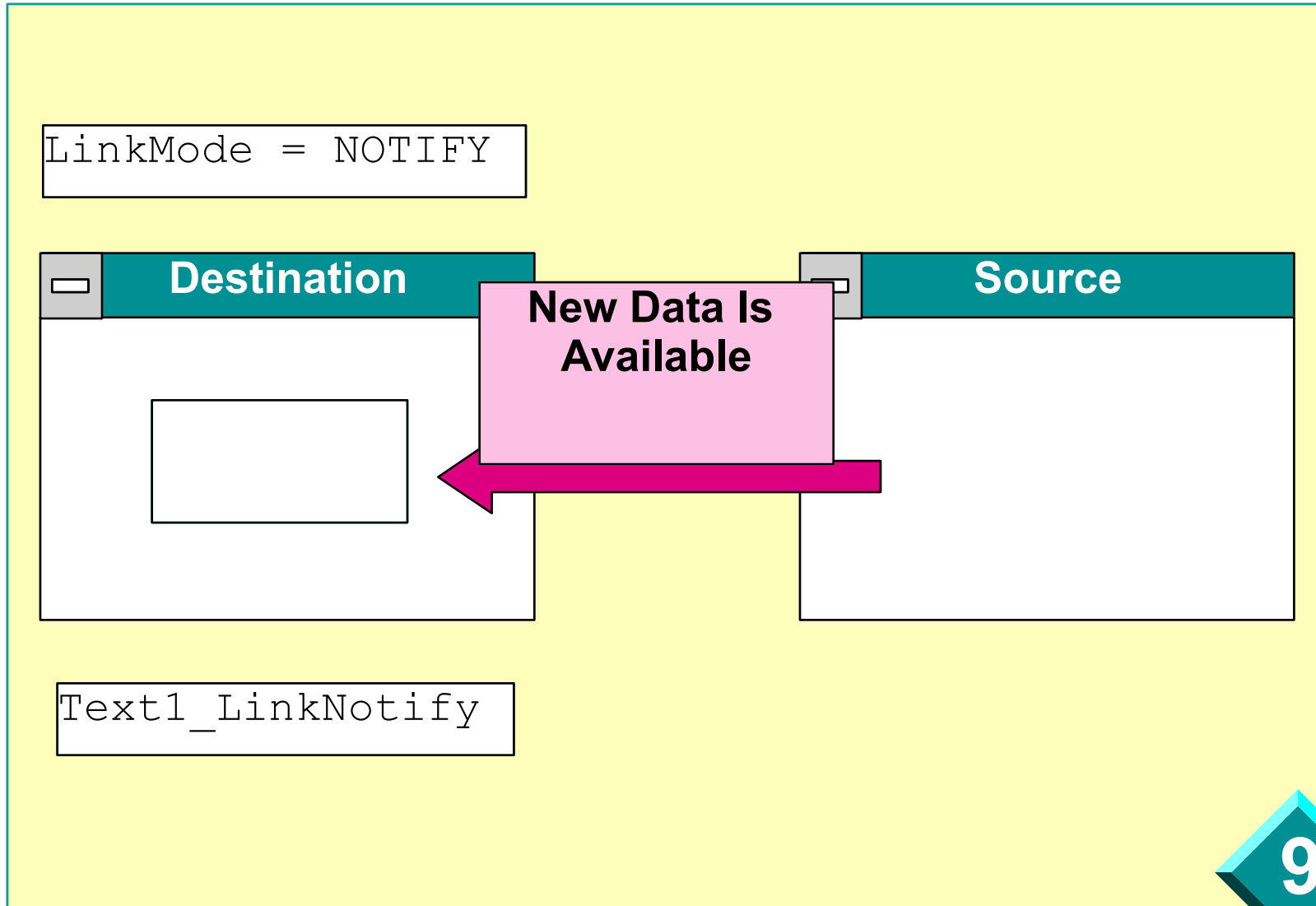
A diagram of a window titled "Source". It has a teal header bar with a small gray button on the left. The main area is white and is empty.

Form_LinkClose

LinkError Event Occurs If DDE Causes an Error



LinkNotify Event Occurs When New Data Is Available



DDE Methods and Functions

LinkRequest

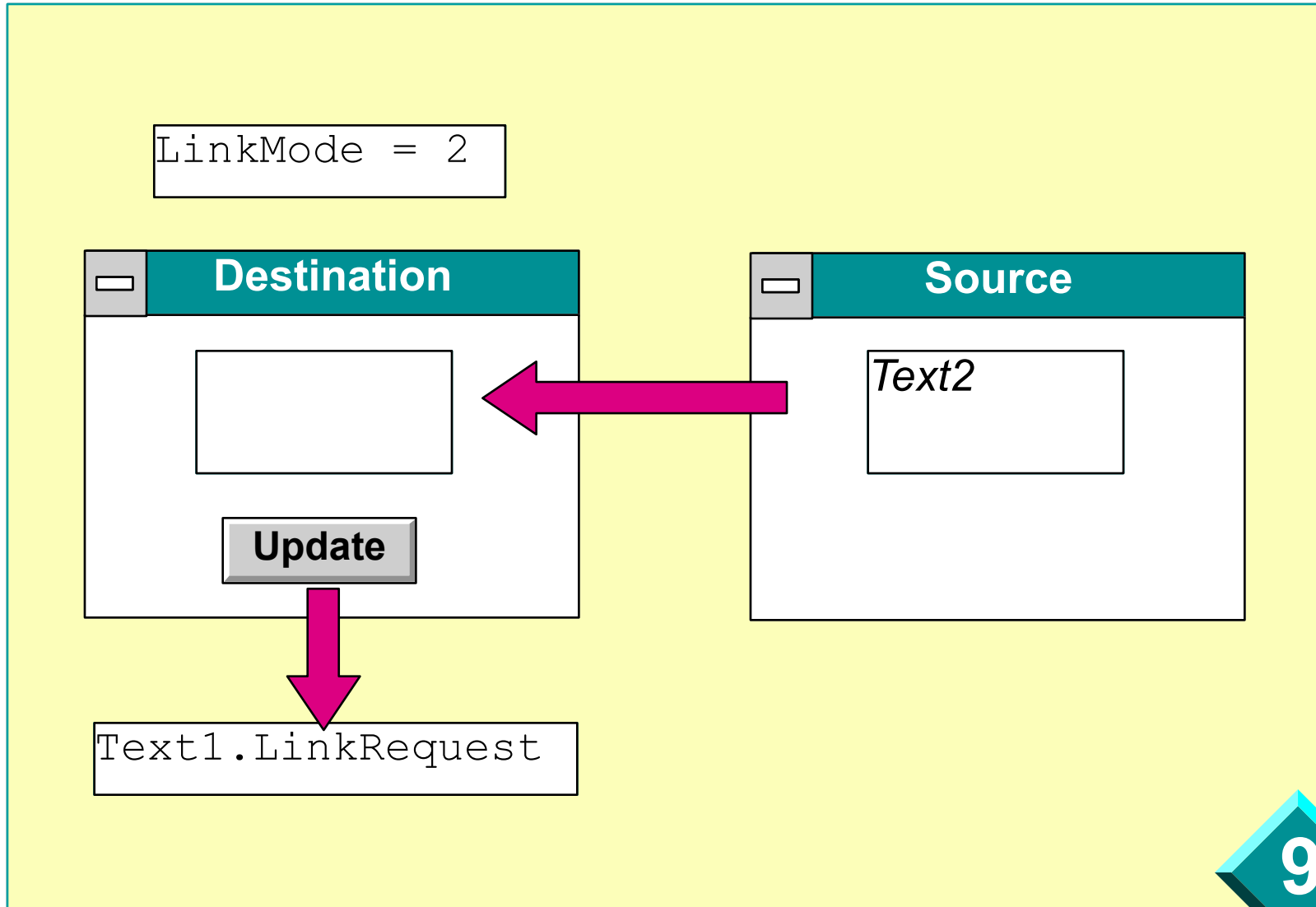
LinkPoke

LinkExecute

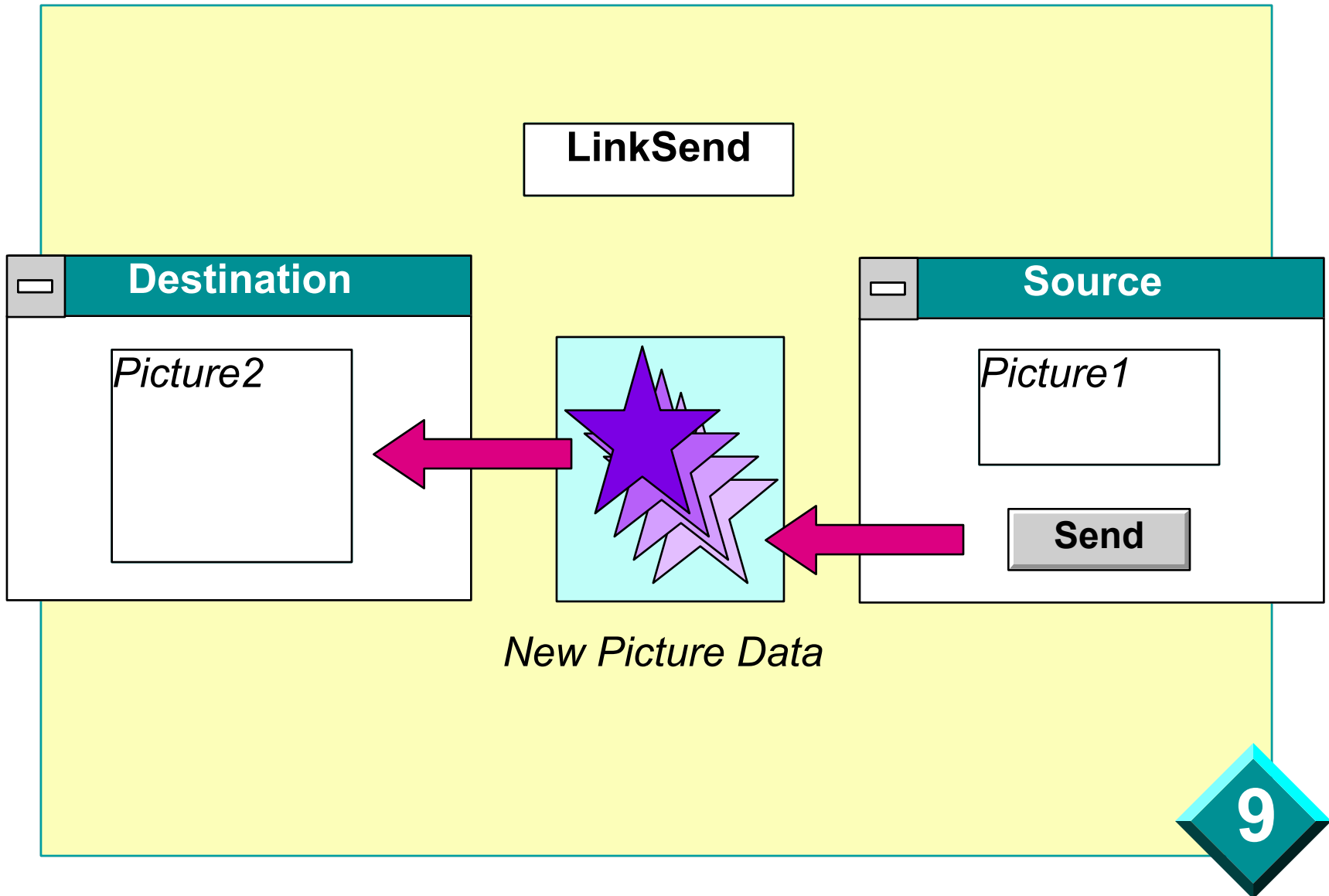
LinkSend

Shell Function

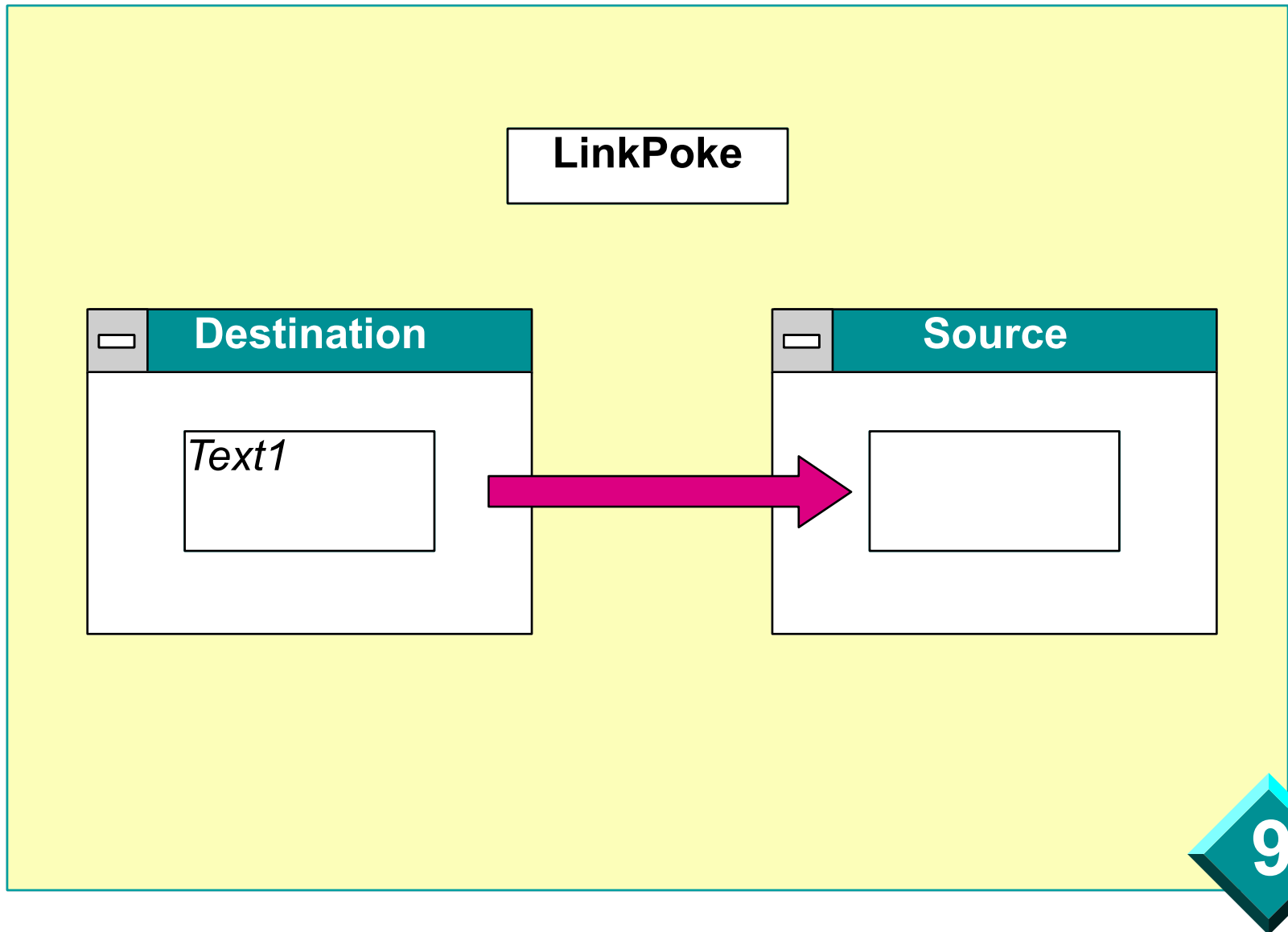
Using LinkRequest to Request Data



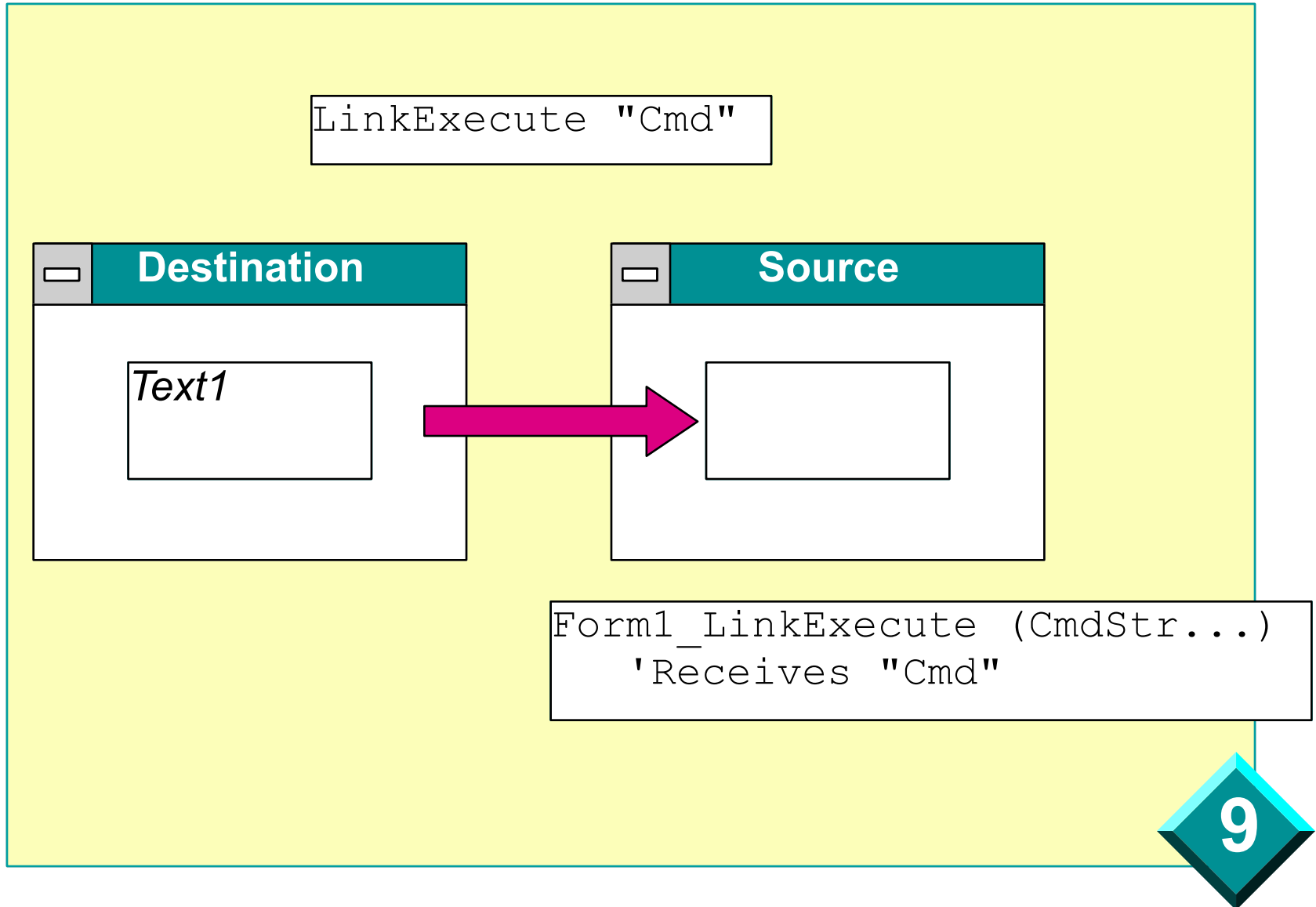
Notifying Other Applications When Picture Changes



LinkPoke Method Sends Data to the Source

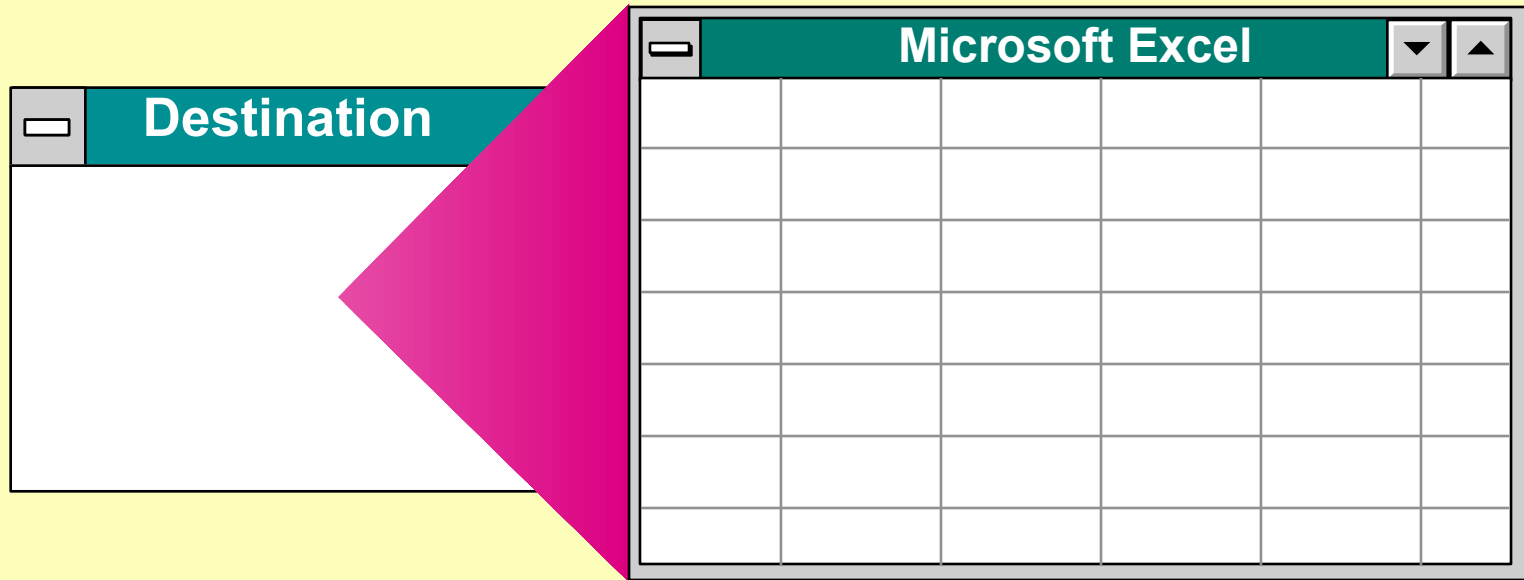


LinkExecute Method Sends a Command to the Source



Shell Function Starts an Application

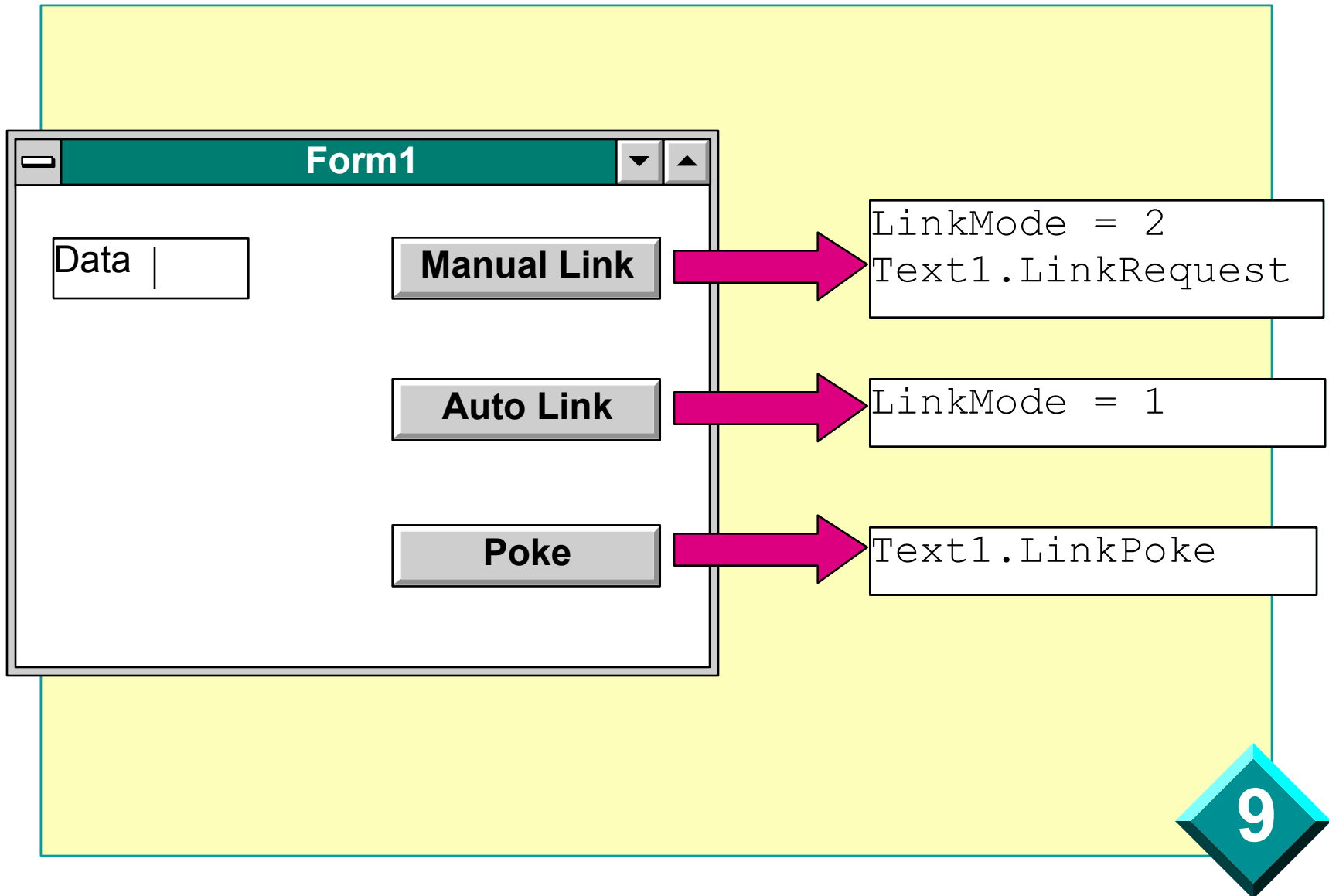
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Shell ("Excel")
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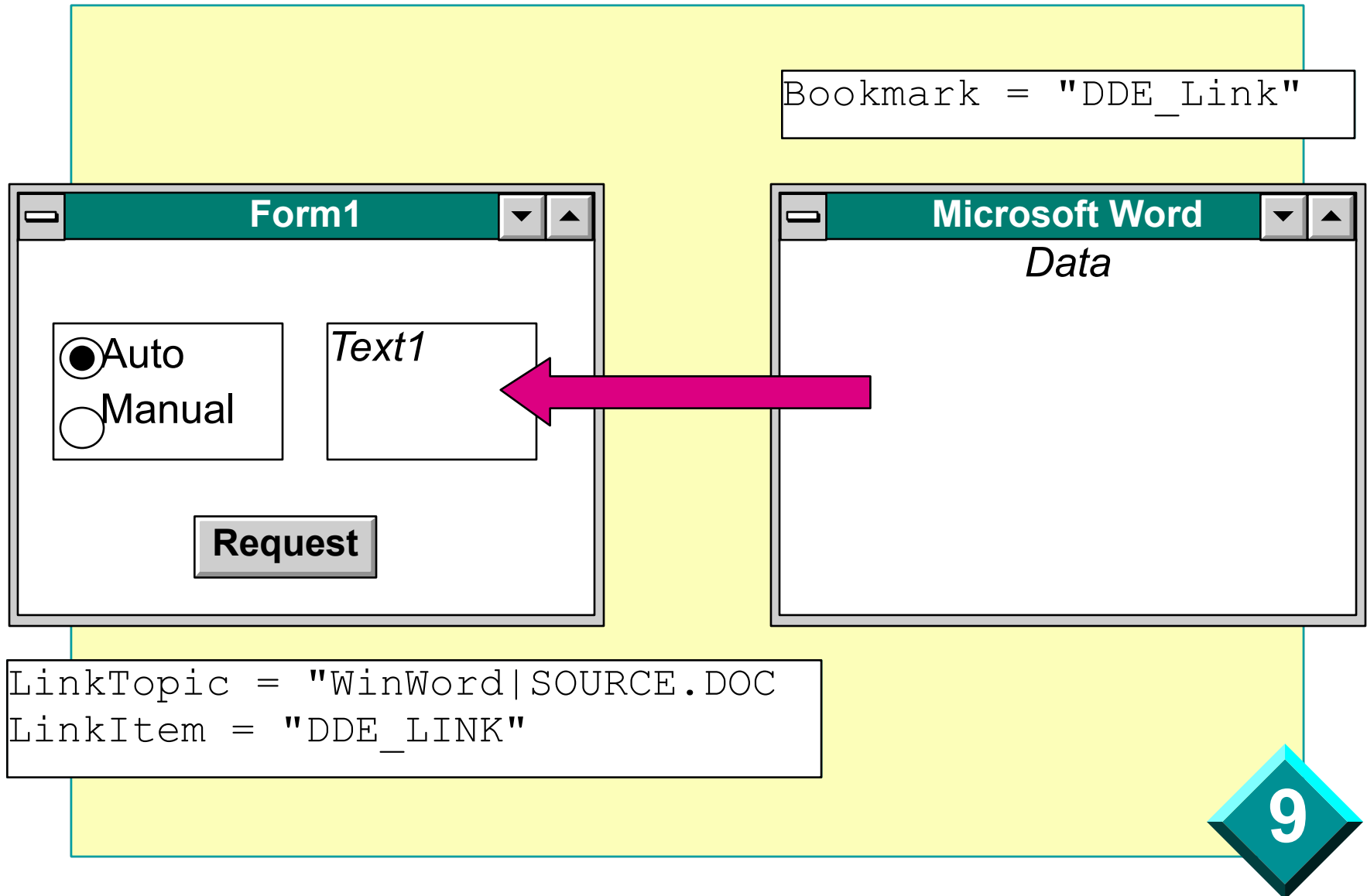
DoEvents

DoEvents - Yields the CPU for Multitasking

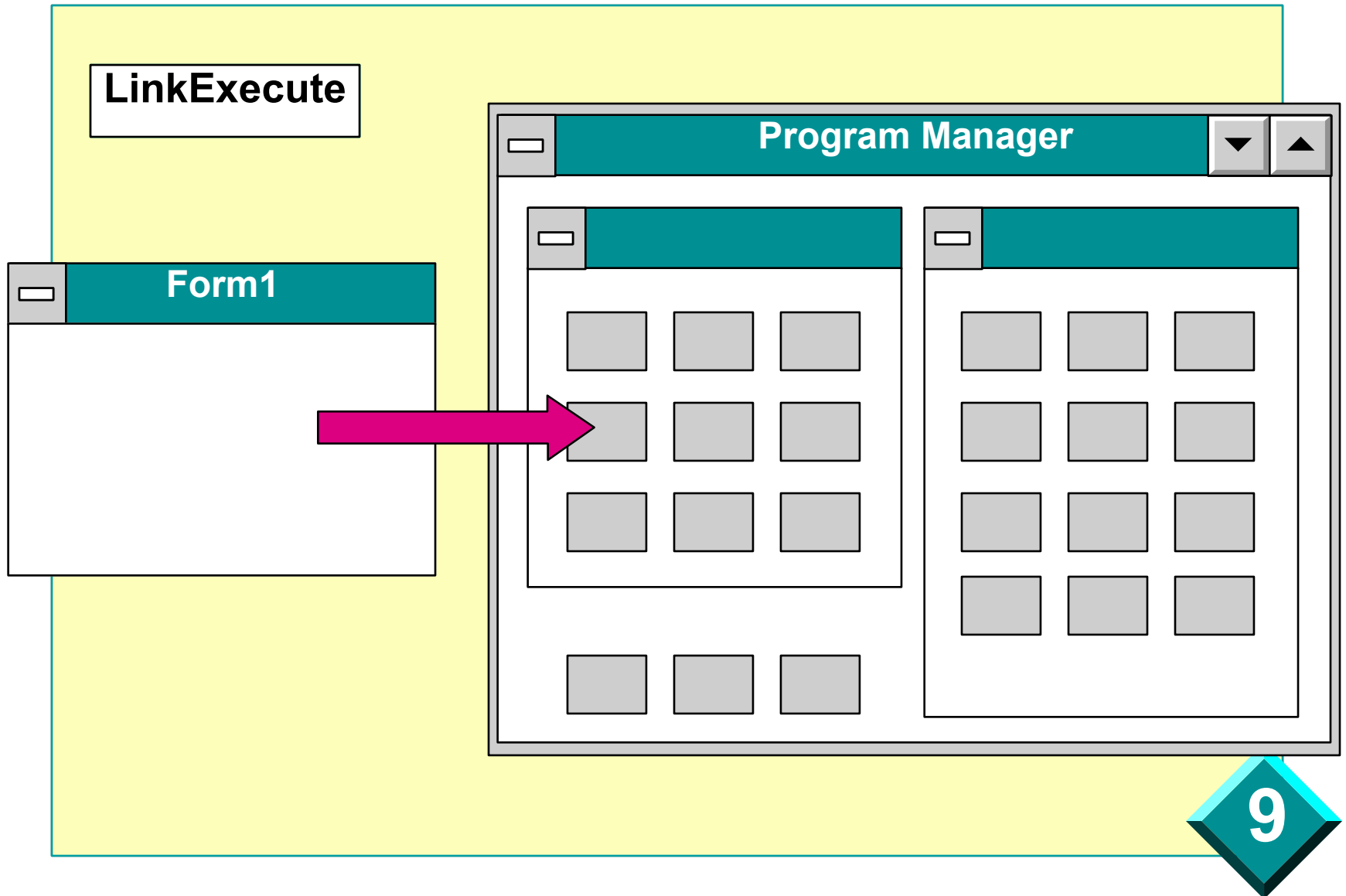
Putting It All Together



DDE to Microsoft Word for Windows



DDE to Program Manager



Summary

What Is Dynamic Data Exchange (DDE)?

Programming a Destination Application

Programming a Source Application

DDE with Microsoft Excel for Windows

DDE with Microsoft Word for Windows