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# AppleEvents

Mike Farr  
AppleEvents ENGINEER

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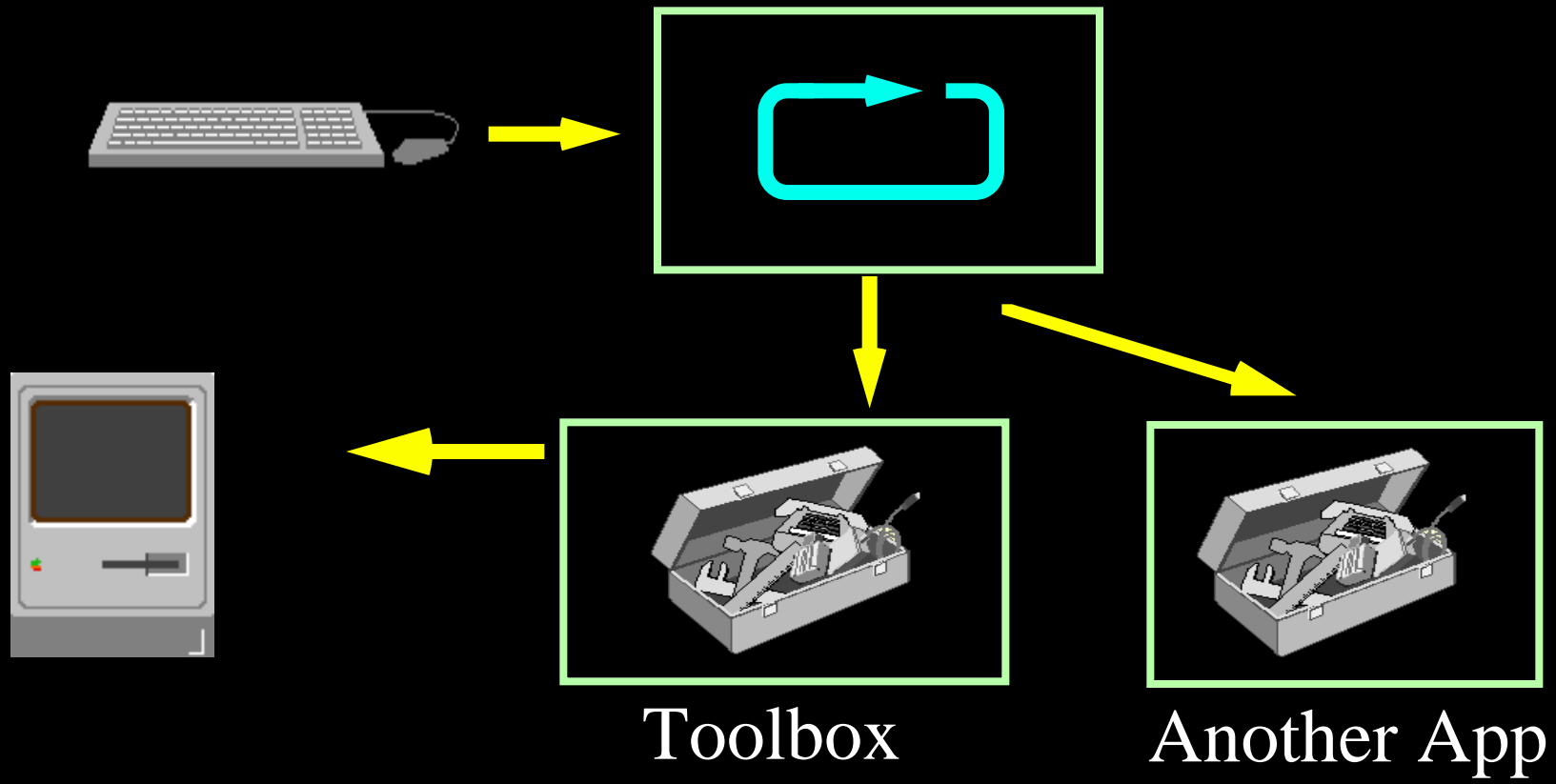
# Why: One Step Beyond

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- Where is the knowledge?
- Where are the services?

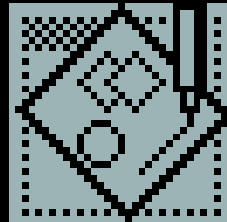
# Application's Toolbox

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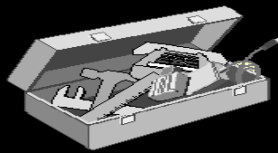


# High Level Toolbox

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(Your Application Here)



AppleEvent  
Toolbox



Mac Toolbox

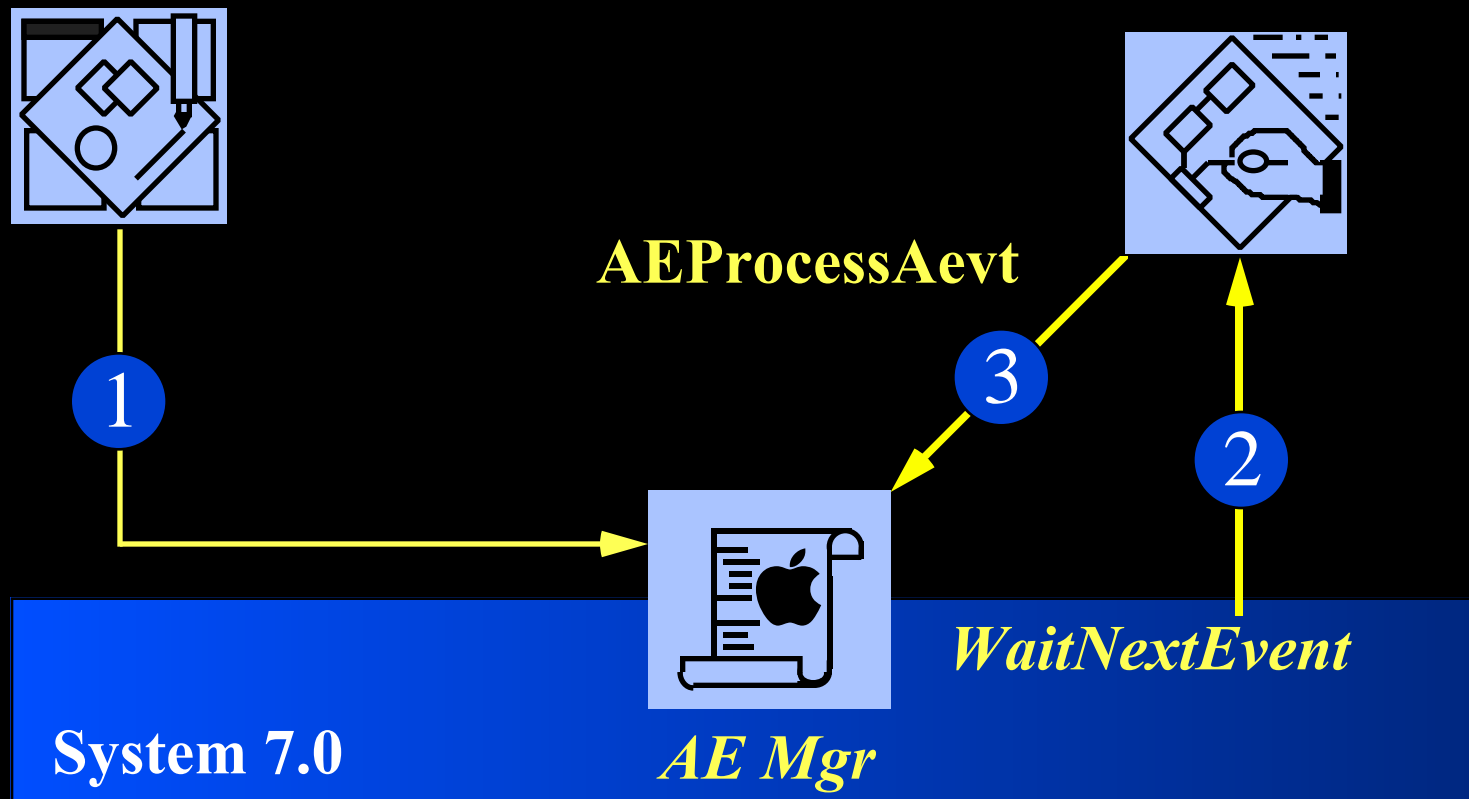
## **Apple Events Are:**

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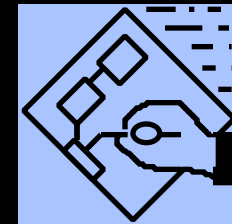
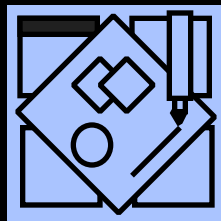
- Go One Step Beyond: info/services
- Regular: A grammar and an API
- Flexible
  
- A standardization Effort

# How it Fits in

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# How it Fits in

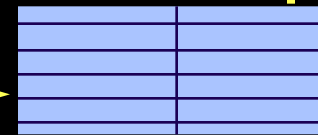


@proc

*AEProcessAevt*

3

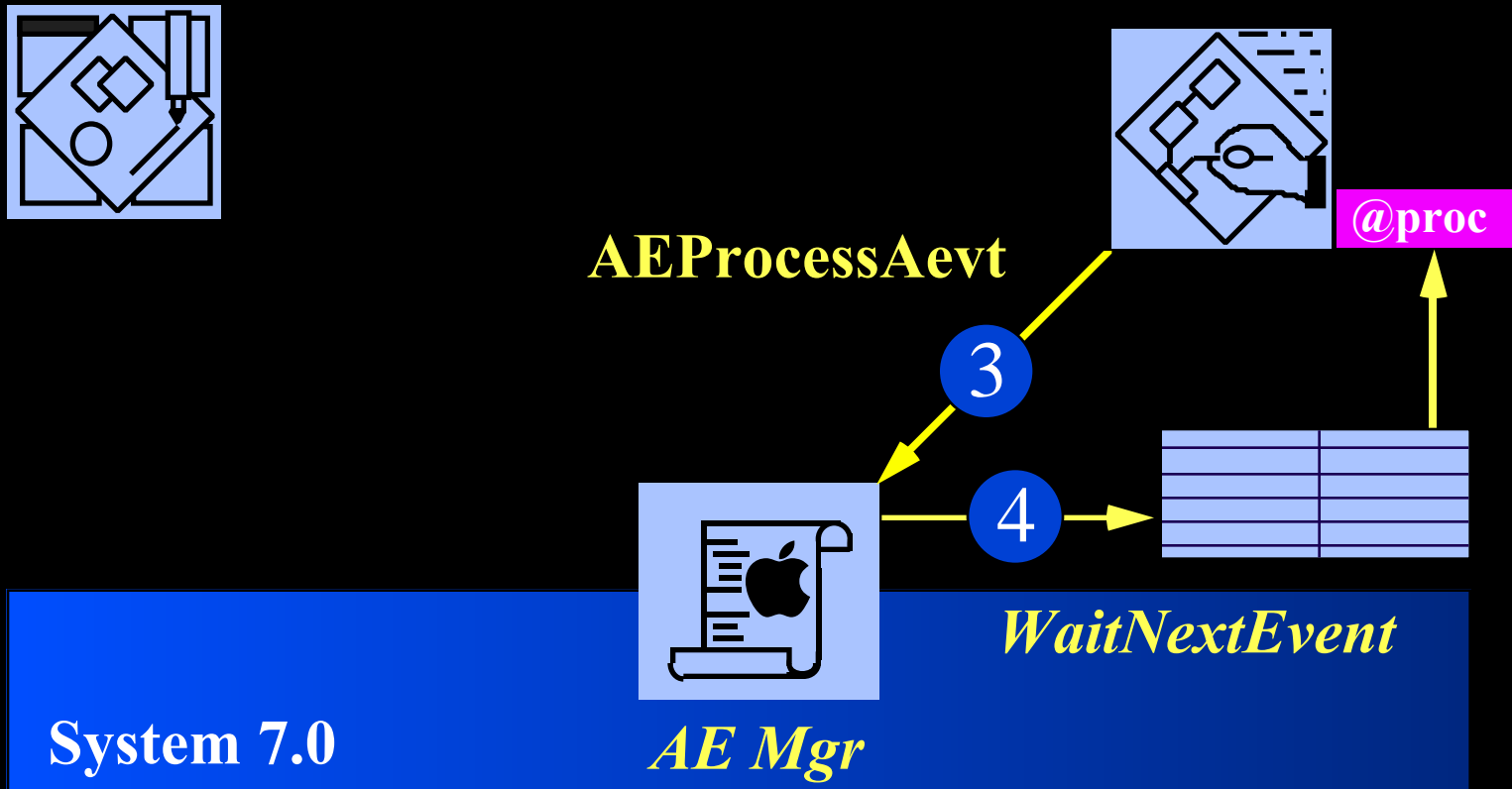
4



*WaitNextEvent*

System 7.0

*AE Mgr*



# AppleEvents Relation to System

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- Uses High Level Event mechanism
- Defines content of HLE buffers

AppleEvents

HL Events

PPC Toolbox



# AppleEvent Manager Dissection

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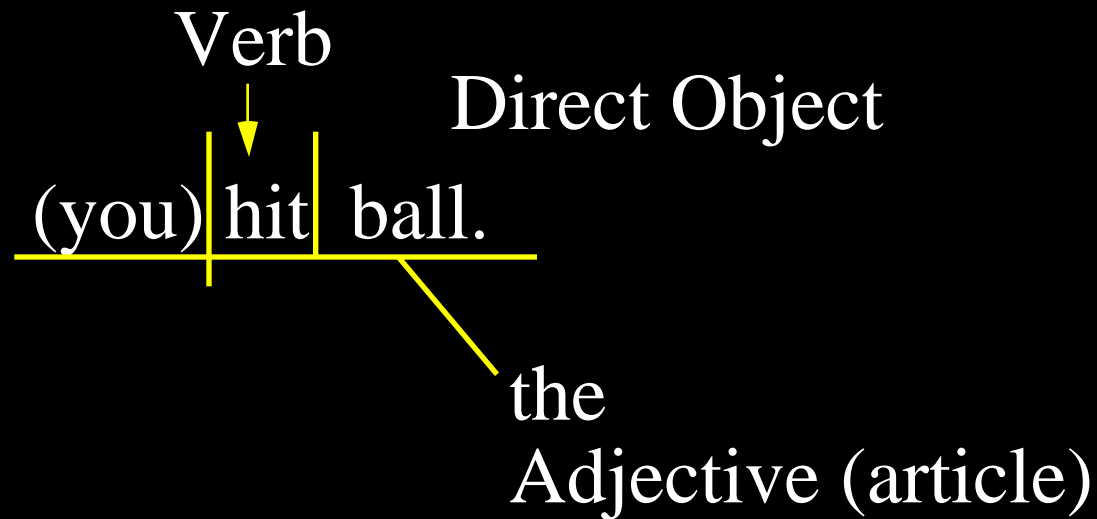
- ~~AETF - a buffer format (don't look!)~~
- AEDF - a "low" level API for sending/receiving AETF

**AEDF**

**AETF**

# AppleEvent Grammar

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# Closer Look

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**Descriptor: self describing data**

**Parameter: distinguishes one parm from another, the Parm's meaning**

'into'      'lake'    <size>    <lake data>

Keyword	Type	Length	Data
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# Print Some Documents

aevt pdoc

Keyword	Type	Size	Data
'----'	'alis'	N	<AliasRecord>
'cyps'	'long'	4	1
'to '	'long'	4	1
'from'	'long'	4	1



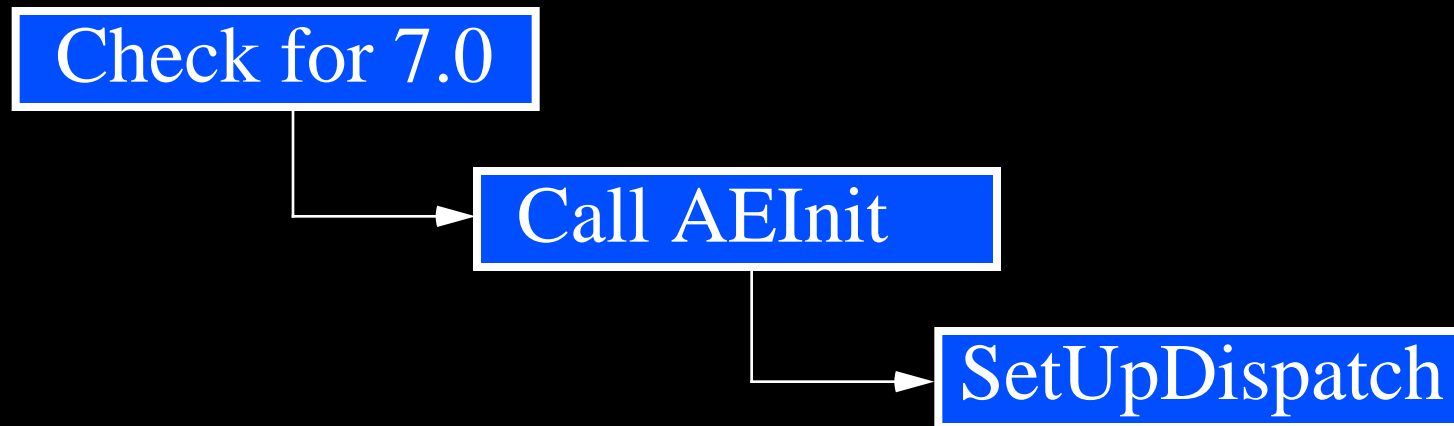
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# Using the AppleEvent Manager

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# Setting Up

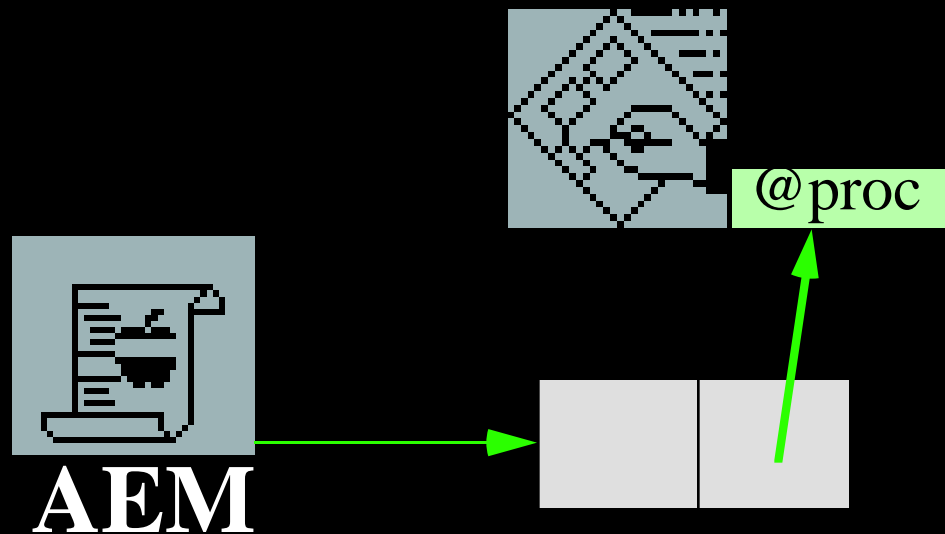
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# Build the Event Table

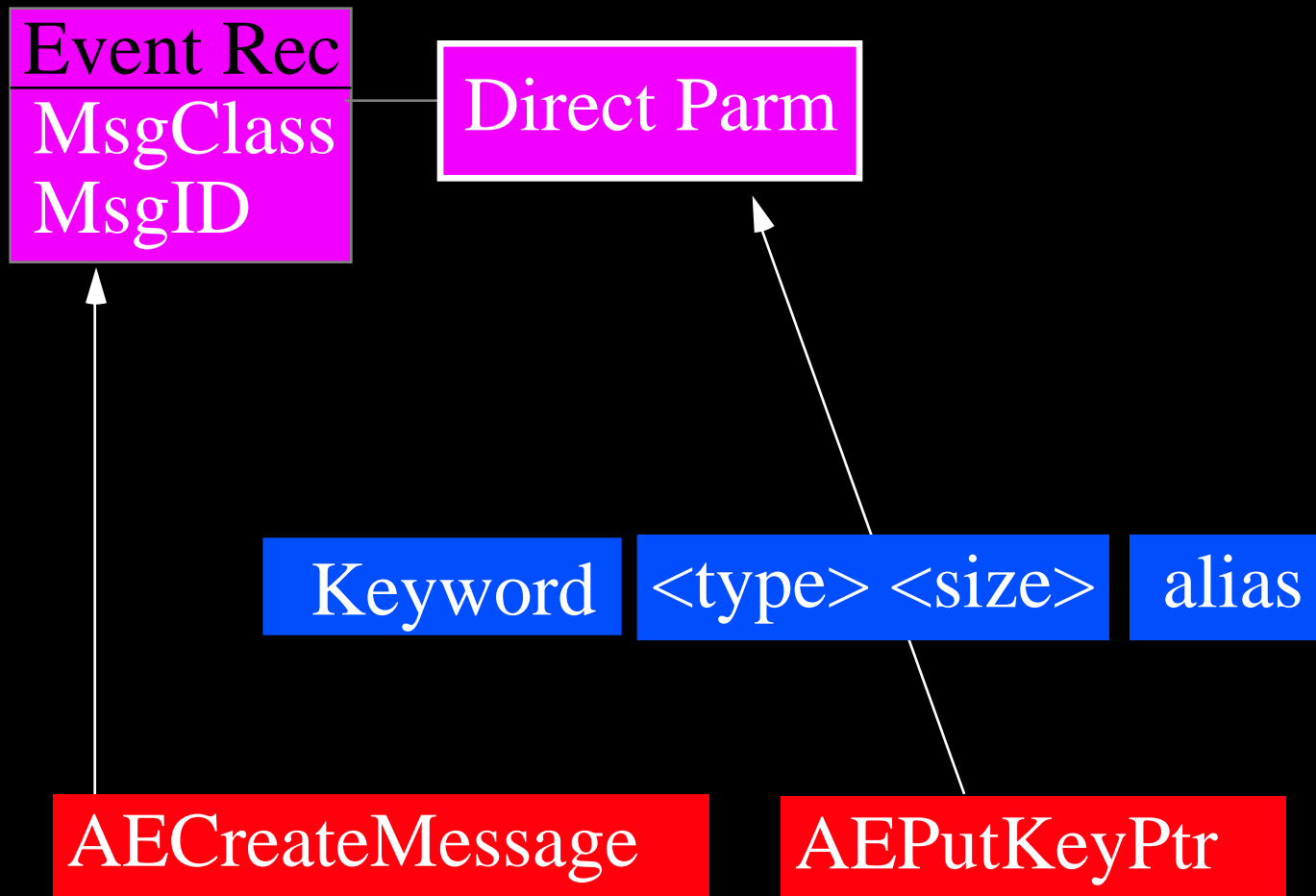
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```
err := AECREATEEVENTTABLE (kNumEvents);  
err := AESetupEvent ('aevt', 'odoc', @MyOpen);  
err := AESetupEvent ('aevt', 'pdoc', @MyPrint);  
...
```



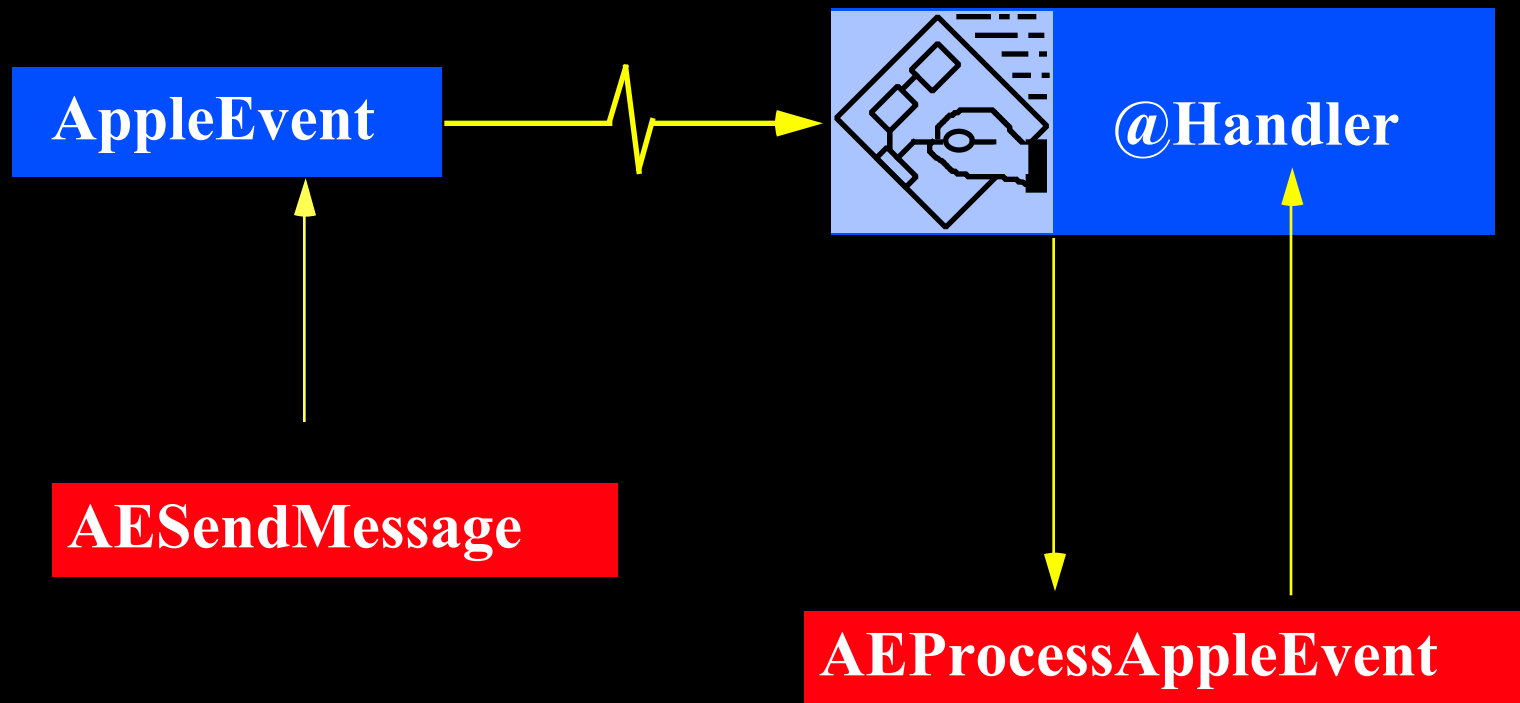


# Open Documents Example



# Send the Message

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# Receive the Message

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@Handler

Parameter

AEGetKeyPtr

The Alias

OpenTheFile



## Events: Required Set

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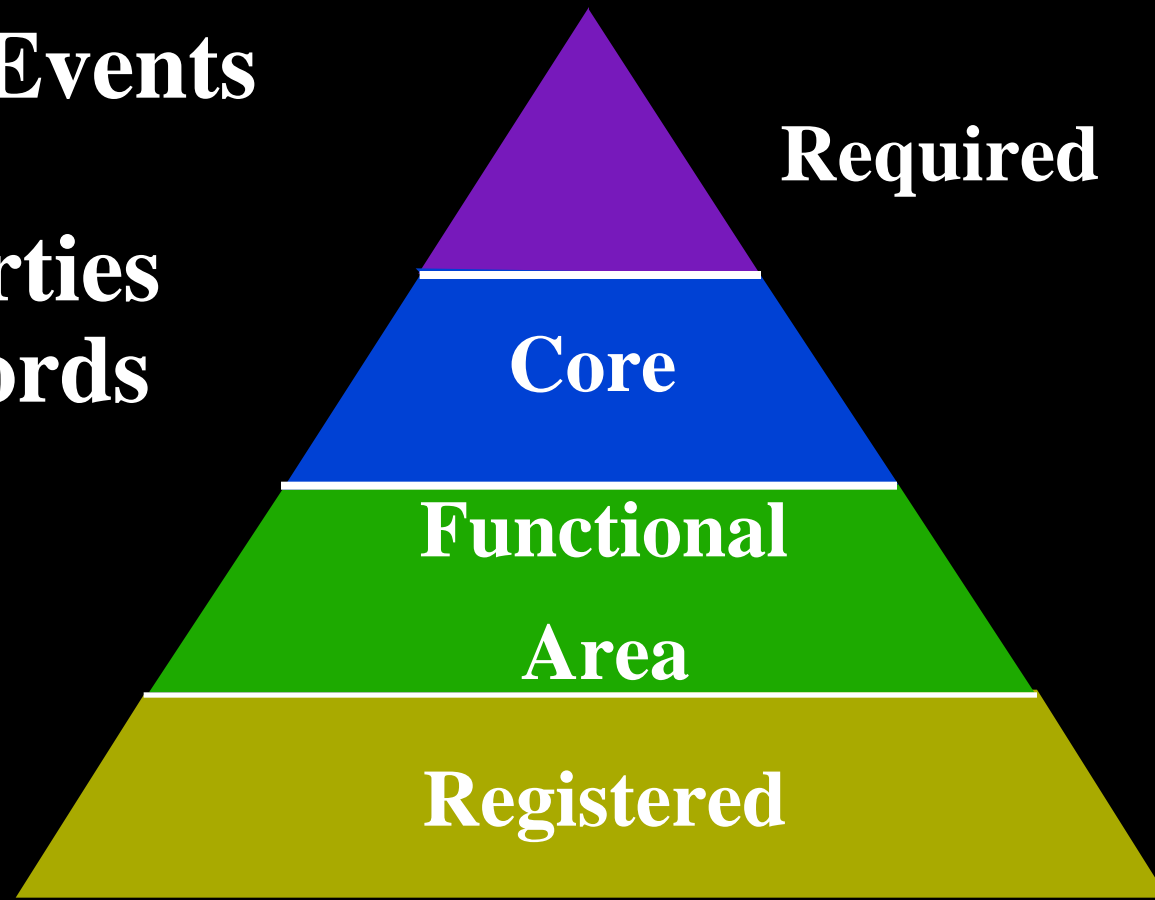
- **OpenApp:** No documents to open or print
- **OpenDoc:** Open a list of documents
- **PrintDoc:** Print a list of documents
- **Quit:** Exit (from main loop)

- To Make Launch and Open reliable
- If you IAC, you will be sent these!
- Old apps receive AppParmHandle

# AppleEvent Standards

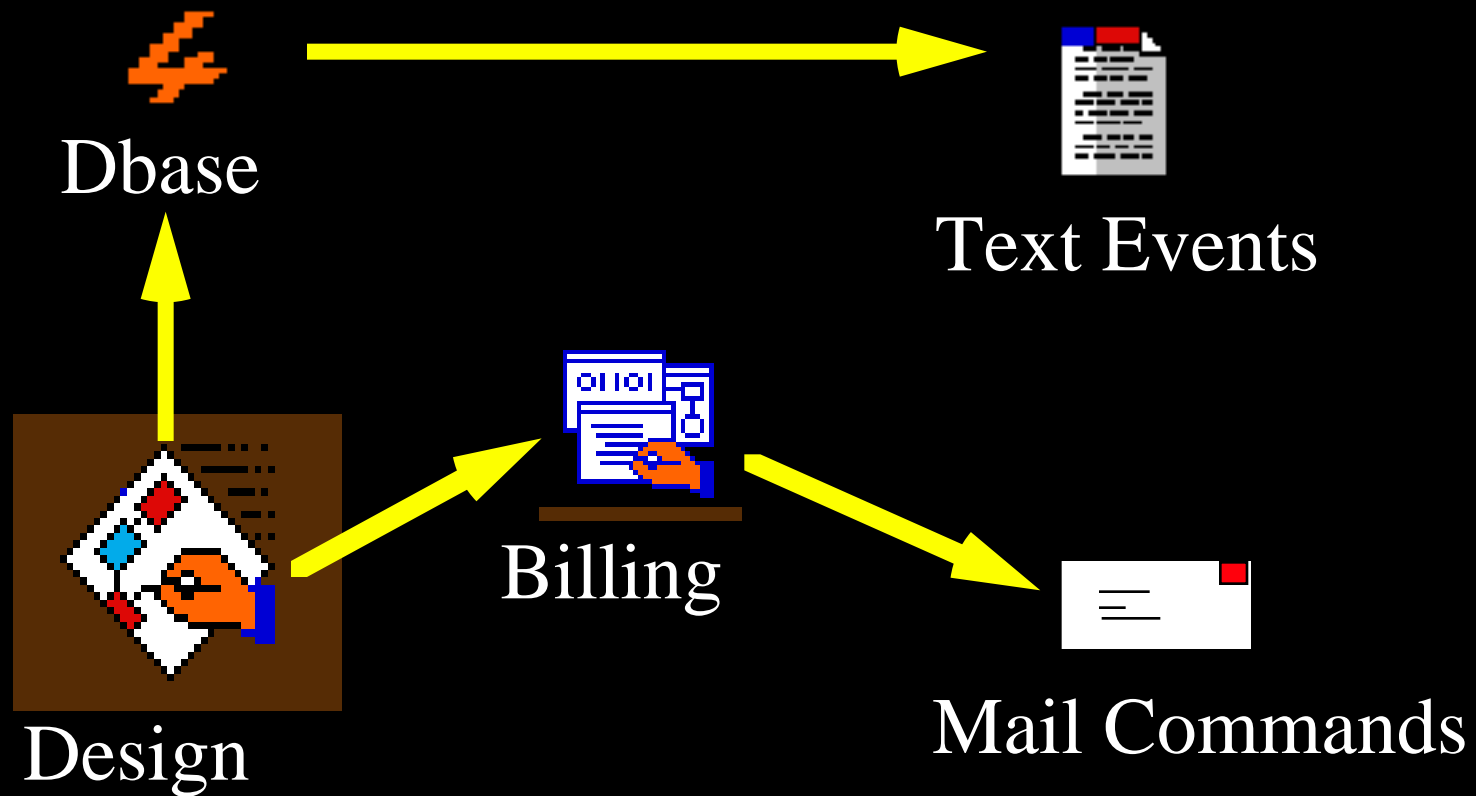
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- **AppleEvents**
- **Types**
- **Properties**
- **Keywords**



# Let's Talk

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# AppleEvent Summary Statement

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- We want the AppleEvents to be the standard for communication
- Standardization to enable a new ecology of applications



The power to be your best  
(Send)