

Variables and Arrays

	Vars		Array	Type
	vX		aX	<i>Blob</i>
	vB		aB	<i>Boolean</i>
[]	vC	-	-	<i>Collection</i>
	vD		aD	<i>Date</i>
2 ³²	vL		aL	<i>Longint</i>
{ }	vJ		aJ	<i>Object</i>
	vO		aO	<i>Picture</i>
->	vP		aP	<i>Pointer</i>
0.5	vR		aR	<i>Real</i>
T	vT		aT	<i>Text</i>
	vH		aH	<i>Time</i>
≈	vV	-	-	<i>Variant</i>

Classes

	Prefix	Type	Var type
	c4{•}	<i>4DClass</i>	4D
	cs	<i>Class Store</i>	cs
	cC	<i>Components CS</i>	cs.<space>
	cE	<i>Entity</i>	cs
	cES	<i>EntitySelection</i>	cs

Examples

```
var $c4Fu_worker : 4D.Function
var $c4Fi_document : 4D.File
var $vJ_extracted; $vJ_prefs : Object
var $cC_AIKit_aj_result : cs.AIKit.OpenAIEmbeddingsResult
var $cC_extract_extract : cs.extract.extract
var $cC_AIKit_OpenAI : cs.AIKit.OpenAI
var $c4ES_undropped : 4D.EntitySelection
var $cES_PAGES : cs.PAGESSelection
var $cE_DOCUMENTS : cs.DOCUMENTSEntity
```

Classes 4D (@v21R3)

Prefix	4D class	Prefix	4D class
c4Bl	<i>Blob</i>	c4Si	Signal
c4Cl	<i>Class</i>	c4ST	SMTPTransporter
c4CK	<i>CryptoKey</i>	c4SW	SystemWorker
c4DC	<i>DataClass</i>	c4TC	TCPConnection
c4DSI	<i>DataStoreImplementation</i>	c4TE	TCPEvent
c4Di	<i>Directory</i>	c4TL	TCPListener
c4Do	<i>Document</i>	c4T	Transporter
c4E	<i>Entity</i>	c4UE	UDPEvent
c4ES	<i>EntitySelection</i>	c4US	UDPSocket
c4Fi	<i>File</i>	c4VE	Vector
c4Fo	<i>Folder</i>	c4WF	WebForm
c4Fu	<i>Function</i>	c4WFI	WebFormItem
c4HA	<i>HTTPAgent</i>	c4WS	WebServer
c4HR	<i>HTTPRequest</i>	c4W	Write
c4IT	<i>IMAPTransporter</i>	c4WD	WriteDocument
c4MA	<i>MailAttachment</i>	c4WE	WriteElement
c4Mth	<i>Method</i>	c4WR	WriteRange
c4O	<i>Object</i>	c4WSe	WriteSection
c4OM	<i>OutgoingMessage</i>	c4WSS	WriteStyleSheet
c4PT	<i>POP3Transporter</i>	c4ZA	ZipArchive
c4PI	<i>ProgressIndicator</i>	c4ZFi	ZipFile
c4S	<i>Session</i>	c4ZFo	ZipFolder

Exceptions (all spaces)

	Type	Vars
	<i>Blob</i>	
	<i>Boolean</i>	is@
[]	<i>Collection</i>	co_@
	<i>Date</i>	
	<i>Longint</i>	(^tt\\d*) ; (^idx\\d*) (^[ijklxyz]+[0-9]*\$) (^[ijklxyz]+_\\w*\$)
{ }	<i>Object</i>	(^signal[0-9]*\$) ob_@
	<i>Picture</i>	
->	<i>Pointer</i>	ptr@
0.5	<i>Real</i>	
T	<i>Text</i>	txt ; path ; path_@
	<i>Time</i>	
≈	<i>Variant</i>	

Properties

	Vars		Collection	Type
	x		ax	<i>Blob</i>
	is		ab	<i>Boolean</i>
[]	c	-	a<x>	<i>Collection</i>
	d		ad	<i>Date</i>
	l		al	<i>Longint</i>
{ }	j		aj	<i>Object</i>
	o		ao	<i>Picture</i>
->	p		ap	<i>Pointer</i>
0.5	r		ar	<i>Real</i>
T	t		at	<i>Text</i>
	h		ah	<i>Time</i>
≈	v	-	av	<i>Variant</i>

Example

```
$vC_aj_fields:=New collection() // Collection of objects
Storage.aj_fields:=$vC_aj_fields
This.t_table:="SESSIONS"
$c4Fo_sources:=Folder("/PROJECT/Sources/"; *)
This.fo_sources:=$c4Fo_sources
$c4Fi_catalog:=$c4Fo_sources.file("catalog.4DCatalog"; *)
This.fi_catalog:=$c4Fi_catalog
$vJ_prefs:=Storage.j_prefs
$vJ_catalog.t_name:=$vT_name
$vJ_catalog.l_count_tables:=$vL_count_tables
$vJ_catalog.aj_tables:=$vC_aj_tables
```