PunyInform

An Inform library for writing small and fast text adventures.

# Flags

Flags is a mechanism for keeping track of story progression that is available as part of PunyInform. If you choose to use flags, four procedures with a total size of about 165 bytes are added to the story file. Also, an eight byte array is added to dynamic memory, plus one byte for every eight flags. All in all this is a very efficient way of keeping track of progress.

If you want to use flags, specify the constant FLAG\_COUNT and set it to the number of flags you need, before including puny.h.

You then specify a constant for each flag, like this:

Constant F\_FED\_PARROT 0; ! Has the parrot been fed?  
Constant F\_TICKET\_OK 1; ! Has Hildegard booked her plane tickets?  
Constant F\_SAVED\_CAT 2; ! Has the player saved the cat in the tree?

You get the idea. Note that the first flag is flag #0, not flag #1.

Setting a flag on or off means calling the routing SetFlag(flag#) or ClearFlag(flag#)

To indicate that the player has saved the cat, call SetFlag(F\_SAVED\_CAT), and to turn off that flag, call ClearFlag(F\_SAVED\_CAT).

Testing a flag is accomplished by calling FlagIsSet or FlagIsClear. So if you have a piece of code that should only be run if the parrot has been fed, you would enclose it in an   
if (FlagIsSet(F\_FED\_PARROT)) { ... }" statement.

Naturally, you can test if a flag is clear by calling FlagIsClear instead.

# Properties

A property can be used to store a 16-bit value, or an array of values (up to 32 values in z5, but only 4 values in z3).

If a property is declared as additive, the values for an object are concatenated with the values of its class, if any, and put into an array.

A property can either be common or individual. Common properties are a little faster to access and use a little less memory than individual properties. A game can use a maximum of 62 common properties. The value of a common property can always be read, but it can only be written if it has been included in the object declaration. If you don’t include it, there is no memory allocated to store a value. If you read the value of such a property, you just get the default value (typically 0).

A common property is created by declaring it with

Property *propertyname*;

To access a property, you write object.*propertyname*, like this:

Dog.description = “The dog looks sleepy.”;

## Limitations for z3

If you want to compile a game to z3 format, this is what you need to keep in mind:

* A game can use no more than 32 attributes and 31 common properties
* When using message passing (like “MyBox.AddWeight(5)” ), no more than one argument may be passed. In regular Inform, message passing doesn’t work at all in z3.
* Dynamic object allocation can not be used.

These are the properties defined by the library:

<TBD>