IFrame Message

Block Group:	Browser API
Icon:	

Sends and receives window messages. It can send a message from a page shown in an IFrame to its parent page, and it can receive messages posted to this page, for example by a page in an IFrame. This block can be used to get information from another domain or another instance of this `.dg5` file.

For information on using dataflow blocks, see Dataflow.

Input/Output Properties

These properties can take input and give output.

- invoke *(trigger)*
- enabled *(boolean)*
- interval *(number)*
- autoRun *(boolean)*
- timeout *(number)*
- message *(string)*
- key *(string)*
- match *(string)*
- origin *(string)*
- matchRegExp *(string)*

invoke causes the message to be sent to the parent window. Only works if **enabled** is set to TRUE.

enabled specifies whether message sending is enabled.

- **TRUE**: Messages are sent as specified by **invoke**, **autoRun**, and **interval**.
- **FALSE**: No messages are sent.

interval specifies how often the message is sent automatically, in seconds. A value of 0 means that it is sent on **autoRun** or **invoke** only.

autoRun specifies whether the message is sent automatically whenever **message** changes.

timeout specifies how long the sending attempt will continue before it is canceled, in seconds.

message holds the message to send to the parent window. It must be a JSON string; it is parsed and sent as an object. If it is not valid JSON, nothing is sent and **error** returns "invalid Json".

key and **match** filter the messages that this block receives. A received message is returned in **output** if:

- **key** is *. In this case, every message is accepted. When you add this block from the palette, **key** and **match** are both *.
- The message is an object that contains **key**, and the value of **key** equals **match**. Use a value of * for **match** to accept any value for the specified key.

origin is used for both sending and receiving. When sending, it is the target origin of the message. When receiving, only messages from this origin are accepted. The default is *, which matches any domain.

matchRegExp specifies a regular expression. A received message that is a plain string is returned in **output** if it matches this expression. It is hidden on the block by default.

Output Properties

These properties can give output. They cannot take input.

- loading *(boolean)*
- output *(string)*
- error *(string)*

loading returns TRUE if the message is currently being sent, FALSE otherwise. Because messages are sent immediately, this is normally FALSE.

output returns the last received message that matched **key**/**match** or **matchRegExp**. It is cleared when this block sends a message.

error returns the error message, if any.

Model

This is a basic use of the block.

Dataflow Model	
	A **key** called "status" is required. Because "status" is one of the keys in the received message, the message is returned in **output**.

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