
Word 1.3

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Word

This documents the Word module and how to use it from JavaScript flows.

You can load the module using the following code:

```
1 var c = Module.load("Word", {version: "X.Y.Z"});
```

Open and inspect a document

To parse and inspect a document, use the `open` method:

```
1 var doc = c.open("path/to/document.docx");
```

If you need to edit the document, you can use the `open` method with the `editable`: `true` option:

```
1 var doc = c.open("path/to/document.docx", {editable: true});
```

::: tip Remember to `close()` all documents you've opened

If you don't you won't be able to access the document until Manatee is restarted.

:::

The returned `doc` is a document-object-model of a sort of the document in question. You can use it to retrieve all paragraphs, tables, lists, etc. in the document.

Each node in the `inspect()` output has a `type` property that indicates the type of node. The following types are supported:

- `document`: the root node of the document
- `paragraph`: a paragraph
- `table`: a table
- `list`: a list
- `listitem`: an item in a list
- `text`: a text node

In addition you can invoke the `toHtml()` method on each node to get a simplified HTML representation of the node.

Closing a document

When you are done with a document, you **must** close it using the `close` method:

```
1 doc.close();
```

Always close all documents opened.

Edit a document

You can replace text in a document using the `replace` method:

```
1 doc.replace("find", "replace");
```

⋮ tip Remember to open the document with the `editable: true` option

If you don't, the `replace` method will throw an error.

```
1 var doc = c.open("path/to/document.docx", { editable: true });
```

⋮

You can also replace text using a regular expression:

```
1 doc.replace(/find/g, "replace");
```

or use a function to replace text:

```
1 doc.replace(/find/g, function (match) {  
2     return match.toUpperCase();  
3 });
```

You can also supply a map of values to be replaced:

```
1 doc.replace({  
2     "find1": "replace1",  
3     "find2": "replace2"  
4 });
```

The `replace` will modify the file in-place so if you need the original file, make a copy before opening it:

```
1 Fs.cp("path/to/document.docx", "path/to/document.docx.bak");
2 var doc = c.open("path/to/document.docx", { editable: true });
3 ...
```

In addition to the `replace` function you can also modify text more directly.

Each `text` node has a `text` property that you can use to get or set the text of the node:

```
1 var doc = c.open("path/to/document.docx");
2 var t = doc.Children[0]; // here we assume the first node is a text
   node
3 t.text = "Hello World";
4
5 // NB: You need to explicitly save the document (save will also close it
   )
6 doc.save();
```