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Chapter 1

lua2md

Fun and braindead code documentation. Reads in annotated lua code and writes out markdown-formatted documentation. lua2md is documented using itself ;p

1.1 Documenting Code

Documentation lines start with `---` followed by a space, except when they are blank lines, in which case you don't need the space. Documentation lines are run through markdown and output directly. Code (everything that's not documentation) is converted into markdown code blocks.

```
--- This is a documentation line and will be converted to markdown  
--- paragraphs
```

This is code which is output as a code block.

Code blocks have leading and trailing blank lines removed, and code blocks which end up being empty are not output.

For example, the following:

```
--- Empty code blocks
```

--- are omitted.

outputs as

Empty code blocks
are omitted.

Note that although the code block is not shown, the break in documentation still acts as a paragraph break.

1.2 Usage

Currently lua2md always reads source code from standard input and writes documentation to standard output. As an example, lua2md's own documentation can be generated with:

```
lua lua2md.lua < lua2md.lua > README.md
```

1.3 Implementation

1.3.1 doc(line)

If line contains documentation, then returns the markdown to output, otherwise returns false.

```
function doc(line)
    return line:match('^%s*%-%- (.)$') or line:match('^%s*%-%--$')
end
```

1.3.2 code(line)

If line contains code, then returns the markdown to output, otherwise returns false.

```
function code(line)
    return not doc(line) and '    ' .. line
end
```

1.3.3 is_blank(line)

Returns true if line is a blank line, false otherwise.

```
function is_blank(line)
  return line:match('^%s*$') and true
end
```

1.3.4 parse_doc(line)

Parses a documentation block.

```
function parse_doc(line)
  local docline = doc(line)
  while docline do
    print(docline)
    line = io.read()
    if not line then return end
    docline = doc(line)
  end
  print()
  return parse_code(line)
end
```

1.3.5 parse_code(line)

Parses a code block.

```
function parse_code(line)
  while is_blank(line) do
    line = io.read()
    if not line then return end
  end

  local blanks = {}
  local codeline = code(line)
  while codeline do
    if is_blank(codeline) then
      table.insert(blanks, codeline)
    end
    codeline = code(codeline)
  end
end
```

```

else
    if #blanks ~= 0 then
        print(table.concat(blanks, '\n'))
        blanks = {}
    end
    print(codeline)
end

line = io.read()
if not line then return end
codeline = code(line)
end
print()
return parse_doc(line)
end

```

1.3.6 initialization

Tests whether the lua document starts with documentation or code, then starts the corresponding parser.

```

local line = io.read()
if not line then return end
if doc(line) then
    parse_doc(line)
else
    parse_code(line)
end

```

1.4 License

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