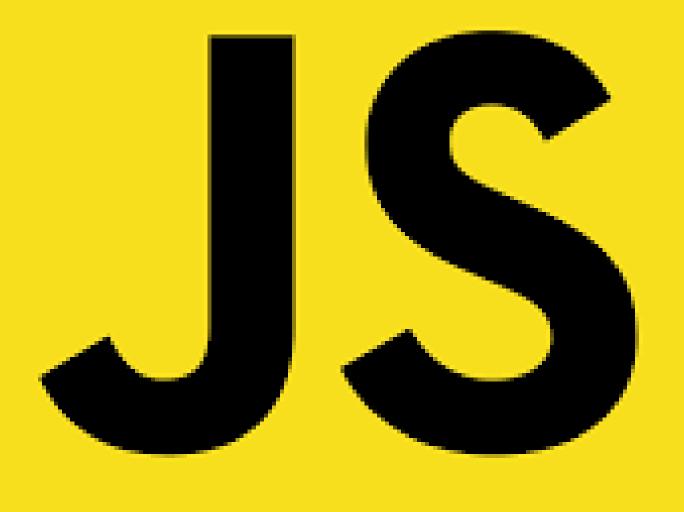
Functional JS



Supuestos

- El archivo a leer sigue la guía de Markdown.
- No consideramos anidaciones de elementos.

Flujo principal: MD a HTML

```
const convertMarkdownToHtml = .flow(
 readFile,
  parseBolds,
 parseItalics,
 parseCode,
  parseImages,
 parseLinks,
  addLineBreaks,
 _.split('\n'),
 _.map(_.cond(conditions)),
 parseLists,
 _.join('\n'),
 joinTags,
 writeFile
```

Condiciones

```
// [function: bool, function to execute if bool is true]
const conditions = [
  [(line) => line === '', () => '\n'],
  [(line) => /^#{1,6} /g.test(line), (line) => parseHeader(line)],
  [(line) => /^[*+-] /g.test(line), (line) => parseUnorderedList(line)],
  [(line) => /^[0-9]+. /g.test(line), (line) => parseOrderedList(line)],
  [(line) => line.startsWith('>'), (line) => parseBlockquote(line)],
  [(line) => line === '---', () => '<hr />'],
  [(line) => line === '<br>', (line) => line],
  [_.stubTrue, (line) => `${line}`],
```

Input y output

```
const fs = require('fs');
const _ = require('.lodash/fp');

// Curried function to read file
const readFile = _.curry(fs.readFileSync)(_, 'utf8');

// Curried function to write file
const writeFile = _.curry(fs.writeFileSync)('output.html', _, 'utf8');
```

Uso de regex

```
// Function to parse a text to a tag using regex
const parseTag = (regex, tag) => (text) =>
text.replace(regex, `<${tag}>$1</${tag}>`);
```

Bold, italic y code

```
const parseBoldAsteriscs = parseTag(/\*\*(.*?)\*\*/gm, 'strong');
const parseBoldUnderscores = parseTag(/\_\(.*?)\\_\/gm, 'strong');

const parseItalicAsteriscs = parseTag(/\*(.*?)\*/gm, 'em');

const parseItalicUnderscores = parseTag(/\(.*?)\\_/gm, 'em');

const parseCodeDoubleBackticks = parseTag(/\(`.*?)\`/gm, 'code');

const parseCodeSingleBackticks = parseTag(/\(`.*?)\`/gm, 'code');
```

Bold, italic y code

```
// Parses markdown bold text to html
const parseBolds = (text) =>
 _.flow(parseBoldAsteriscs, parseBoldUnderscores)(text);
// Parses markdown italic text to html
const parseItalics = (text) =>
 _.flow(parseItalicAsteriscs, parseItalicUnderscores)(text);
// Parses markdown code text to html
const parseCode = (text) =>
 _.flow(parseCodeDoubleBackticks, parseCodeSingleBackticks)(text);
```

Line break, image y link

```
// Adds line breaks to text
const addLineBreaks = (text) => text.replace(/ $/gm, '<br>');

// Parse markdown images to html
const parseImages = (text) =>
  text.replace(/!\[(.*?)\]\((.*?)\)/gm, "<img alt='$1' src='$2' />");

// Parse markdown links to html
const parseLinks = (text) =>
  text.replace(/\[(.*?)\]\((.*?)\)/gm, "<a href='$2'>$1</a>");
```

Blockquotes

```
const parseBlockquote = (line) => {
  const content = line.slice(1).trim();
  return `<blockquote>${content}</blockquote>`;
};
```

Headers

```
// Parses markdown headers to html
const parseHeader = (line) => {
  const level = line.split(' ')[0].length;
  const content = line.slice(level).trim();
  return `<h${level}>${content}</h${level}>`;
};
```

Lists

```
// Parses markdown unordered lists to html
const parseUnorderedList = (line) => {
  const content = line.slice(2).trim();
 return `${content}`;
// Parses markdown ordered lists to html
const parseOrderedList = (line) => {
 const index = line.indexOf('.') + 1;
 const content = line.slice(index).trim();
 return `${content}`;
```

Lists

```
// Parses de  and  tags to  tags
const parseListTags = (line, tag) => {
 const regexStartingTag = new RegExp(`<${tag}>`, 'g');
 const regexEndingTag = new RegExp(`</${tag}>`, 'g');
 return `<${tag}>\n${line
   .replace(regexStartingTag, ' ')
   .replace(regexEndingTag, '\n')
   .trimEnd()}\n</${tag}>`;
// Parses de  and  tags to  tags
const parseLists = (array) => {
 const joinedArray = array.join('').split('\n');
 return joinedArray.map((line) =>
   line.startsWith('')
     ? parseListTags(line, 'ul')
     : line.startsWith('')
     ? parseListTags(line, 'ol')
     : line
```

Join tags

```
// Join paragraphs tags
const joinParagraphs = (text) => text.replace(/<\/p>/g, '');

// Join blockquotes tags
const joinBlockquotes = (text) =>
   text.replace(/<\/blockquote><blockquote>/g, '<br>');

// Join tags
const joinTags = (text) => _.flow(joinParagraphs, joinBlockquotes)(text);
```

Functional JS

