

- Use the built-in feature `Export public pages`.
 - Chose a **separate folder** (`$web/`) to checkout the `gh-pages` branch, then export to that folder.
 - Warning: Don't export to the same folder with the `main` branch (`$src/`), because their contents are very different.
 - Manually copy the whole `assets` folder from `$src/` to `$web/`
 - because [!] The built-in publisher still cannot handle assets (embedded or linked) other than embedded image.
 - The folder `$web/` can be launched by Web Servers.
 - When `gh-pages` branch is pushed to GitHub, GitHub Pages will deploy it to `https://$user.github.io/$repo/`.
 - [!] The built-in publisher does not give option to set `theme-mode: light/dark` and `accent-color: blue` and it always use the default theme (`data-color=logseq`).
 - So i customize `data-color=logseq` to match CreatZy theme.
 - [!] The built-in publisher still cannot handle assets (embedded or linked) other than embedded image.
 - ⇒ Manually copy the whole `assets` folder from `$src/` to `$web/`- CANCELLED Use [publish-SPA](#) GitHub Action to publish to [GitHub Pages](#).
 - [!] The published SPA has some style mismatch with the desktop app.
 - [!] The published SPA still cannot handle assets (embedded or linked) other than embedded image.
 - CANCELLED Local publishing with [publish-SPA CLI](#) to publish local graph of HTV's works.
 - `publish-spa` requires `logseq` to be built for it to use `logseq/static`, but `logseq > yarn install` fails :(

```
yarn install > Link step > logseq@workspace:. must be built because it never has been before

Ambiguous Syntax Error: Cannot find which to pick amongst the following alternatives:
  0. yarn install [--json] [--immutable] [--immutable-cache] [--check-cache] [--inline-builds] [--mode #0]
  1. yarn install [--json] [--immutable] [--immutable-cache] [--check-cache] [--inline-builds] [--mode #0]
While running --cwd tldraw install
```

- CANCELLED Publish linear (long-form) docs with [Hugo publish \(logseq-schrodinger\)](#) for publishing to [Hugo](#).
- Because the exported SPA is too large (~90MB including Electron), it's better to write a Custom Logseq publish via Web API.

• **Manually publish with Block copy and JavaScript or vim commands**

draft note → published note → published Markdown → HTML → PDF

- First, copy the block to be published to a page in `pages/publish/`, e.g. `[[Logseq publish]]`.
 - Copy to external text editor to get text of block refs.
 - Copy `{{embed}}` ed contents
 - Remove additional notes & tasks
 - [!] The biggest problem is block refs
 - The internal refs to blocks within the page should be resolved automatically.
 - The external refs should be resolved to plain texts.
- **Then, load the published note to converter script**
 - publish Markdown
 - convert newline `\n` to `
` (skipped)
 - Note: newline is meaningful in Logseq but not in the standard Markdown ([line break](#) requires two spaces at line end or a backslash, for the historical plain text email).
 - empty line is treated as paragraph break `</p><p>`, not line break `
`.
 - Skipped: The detection of wich lines to be converted is complicated, so we use the supported `markdownit({breaks: true})`
 - For standard markdown, line breaks should be inserted manually when needed.
 - convert metadata to ``
 - `looseList` to avoiding the style inconsistency between “[loose lists](#)” and “tight lists”.
 - Issue: Any blank line in any list item makes that list “loose”, i.e., all other items in the same list (at the same level) will be wrapped in `<p>` which will be rendered different (more line space) from the unwrapped items of the default “tight list”.
 - [!] Cannot make soliton lists “loose” simply with blank line!
 - soliton list: only one item with no sub-list
 - ~~Trick: Add another line containing ` ` after the blank line.~~
 - This line has no effect with normal text, but adds new code block after code block!
 - ⇒ Hack: set all `markdown-it`’s tokens with `"hidden": false`.
 - break down `mdi.render()` into:
Markdown → `mdi.parse()` → token stream → `mdi.renderer.render()` → HTML
with `mdi = window.markdownit() || new MarkdownIt()`
 - Ref source code: [MarkdownIt.prototype.render](#)

- markdown-it should have a rule to disable “tight list” feature.

- The `<p>` wrapping is also convenient for `<div slot="unfoldable"> in <folder-div>`.
- References:
 - CommonMark talk: [Why are there even tight lists?](#)
 - Markdown-It issues: [#728](#), [#678](#),
 - [Prettier's issue](#)
 - Djot's issue: [Revisit the concept of tight/loose list](#).
- We also use style `li p {margin}` to fix this display issue.
- `flattenHeadings` to unitemize headings & remove first tabs
- process block link/ref -> `#` anchor link
 - Detect unresolved links
 - Convert `((block ref))` and empty link `[](((UUID)) "comment")` to `[target block title](((UUID)))`
 - All links & block refs in the `target block title` is replaced by **plain text** due to the [limitation of HTML anchor](#).
 - Use `mapUuid[id] = blockTitle` to track block titles; add `target block title` to empty block ref/links in the topo-order of block ref dependency
 - Note: Link text can contain **matched** square brackets `[]`, and external link target can contain **matched** parentheses `()` ... up to **3 levels**.
 - Some Markdown implementations do allow *matched brackets/parentheses* in link.
 - E.g. This links to [\[wiki\] Parenthesis_\(rhetoric\)](#)
 - Supported by Logseq, Markdown-It, GitLab
 - Unsupported by GitHub, [Markdown Viewer \(Browser Extension\)](#), [Stack Exchange](#)
 - Parentheses in link target is supported by most of them: HitHub, Markdown Viewer, [Stack Exchange](#),
 - Regex pattern for `n`-level-nesting balanced brackets:
 - For unbound `n`, [recursive regex](#) is required.
 - For specific `n` (= 3 in our case), we can construct the pattern with this algorithm:

```
/**
 * Examples:
 * [A [very [very [very]...] messy] link](http://to(some(weird(...))).href "with link tip")
 * // 3 levels of []
 * patText = balancedBracketsRegexPattern('[', ']', '', 3, true)
 * // 3 levels of () and exclude space & quote of the link tip
 * patHref = balancedBracketsRegexPattern('(', ')', ' ', 3, true)
 */
function balancedBracketsRegexPattern(open='[', close=']', excludes='', depth=1, unrolled=false)
{
  let lo = '\\'+open, lc = '\\'+close; // literals
  let noBracket = '['+lo+lc+excludes+']';
  // Pattern variants:
  let t = unrolled ? 1 : 0;
  let p = [ // [open, close]
    [// simple pattern
      lo
      + '(:'+ noBracket + '| /*inner level*/,
        ')*' +
      lc
    ],
    [// unrolled pattern for efficiency
      lo +
      noBracket+'*'
      + '(:' /*inner level*/,
      noBracket+'*'
      + ')*' +
      lc
    ]
  ];

  // Generate the pattern
  let innermostPair = lo + noBracket+'*' + lc;
  let openBrackets = p[t][0].repeat(depth);
  let closeBrackets = p[t][1].repeat(depth);

  // Return the pattern
  pattern = new RegExp(openBrackets + innermostPair + closeBrackets);
  return pattern;
}
```

- Ref: [Regular expression to match balanced parentheses](#)
- [Idealy](#), link text should not contain brackets, and parentheses in link target should be escaped: `(= %28,) = %29`
 - E.g. This links to [{wiki} Parenthesis_\(rhetoric\)](#)
 - Because any unmatched bracket/parenthesis will break the link syntax with broken text displayed.

- This has [only close brakret]](undefined)
- This has [only close parenthesis](#)) ...
- TODO [for logseq.order-list-type:: number](#), replace items bullets with numbers
- process code blocks
 - blankLineBeforeCodeBlock (⇒ [looseList](#)) for strict conventions like in GitLab
 - unitemize items with code blocks only.
 - replace the double space with \t.
- warn for external links to relative paths: non-HTTP
- replace straight quotes "... " with curly quotes "... " (and '...' with '...')
- ⇐ Auto-complete & typing assistant for **quotation marks**, symbols...
- This has been done by Markdown-It's typographer: true in [smartquotes.mjs](#).
- We implement our own function `replaceQuotes(ln)` to handle our markdown source in Logseq.
- Multi-line quotes are not supported.
- Test text:

```
This "quotation" is for sth like "quot-"+"-ation" or sth like "12398 ^724_242!?" or "- abc =", but n
This 'quotation' is for sth like 'quot-'+'-ation' or sth like '12398 ^724_242!?' or '- abc =', but n
"line start" and "line end"
'line start' and 'line end'
American style: "double quotes contain 'single quotes'"
British style: 'single quotes contain "double quotes"'
```

- TODO Process markers like TODO, CANCELLED, ...
- markdown → HTML: using [markdown-it](#)
 - MarkdownIt.options
 - html: true, breaks: true for comatible with Logseq
 - typographer: false: we do `replaceQuotes()` ourselves.
 - make item lists foldable with [custom element <folder-div>](#)
 - For easy DOM traversal, set [looseList](#) = true & [flattenHeadings](#) = false.
 - For block title in `<div slot="unfoldable">`: Use `looseList` to wrap all item contents into `<p>`, then use `node.children[0]` to access its first child to get block title, instead of traversing `node.childNodes[]`.
 - Note that, even with `looseList`, the `` always contains meaningless newline-only text nodes which will appear in `node.childNodes[]`.
 - headings in `<div slot="unfoldable">` are automatically detected and moved to `<div slot="heading">`
- HTML to PDF conversion
 - TODO programmatically print HTML page to PDF using Chrome.
 - The printed PDF lacks bookmarks, used for simple page view only.
 - **layout** with bookmarks using [DocRaptor](#)
 - Pagination for PDF: Summary & Details
 - Summary: each headings has a link (whole text or ...) to the item in Details
 - Reduce list indent
 - Browser default: `padding-inline-start: 40px;`
 - [Prince](#) default: `margin-left: 52px;`
 - ⇒ reset `padding-inline-start: 0px;` and set `margin-left: 20px;`
- [!] JSON `fetch()` error
 - Request with `mode: 'no-cors'` ⇒ opaque response with `status = 0` & `ok = false`.
 - Serve page with non-secure HTTP protocol ⇒ 401 - Unauthorized
 - Calling `fetch()` with either header `Authorization` or `Content-Type: application/json` ⇒ CORS preflight OPTIONS request is sent by browser. (ref: [StackOverflow](#))
 - Calling `fetch()` with `content-type: application/json` ⇒ Status Code: 400 Bad Request
 - The [preflight request](#) is OK, though!?!
 - Request OPTIONS → 200 OK

```
Request URL: https://api.docraptor.com/docs
Request Method: OPTIONS
Status Code: 200 OK
Remote Address: 34.226.73.93:443
Referrer Policy: strict-origin-when-cross-origin
access-control-request-headers: authorization,content-type
access-control-request-method: POST
origin: https://myip
priority: u=1, i
referrer: https://myip/
sec-fetch-dest: empty
sec-fetch-mode: cors
```

- Response

```
access-control-allow-headers: authorization,content-type
access-control-allow-methods: GET,PUT,POST
access-control-allow-origin: https://myip
access-control-max-age: 900
cache-control: no-cache
referrer-policy: strict-origin-when-cross-origin
server: nginx
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
```

- But the real POST request is NG!?!
 - CORS Error

```
Access to fetch at 'https://api.docraptor.com/docs' from origin 'https://myip' has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource.
```

- Request POST → 400 Bad Request

```
Request URL: https://api.docraptor.com/docs
Request Method: POST
Status Code: 400 Bad Request
Referrer Policy: strict-origin-when-cross-origin
accept: */*
accept-encoding: gzip, deflate, br, zstd
accept-language: en-US,en;q=0.9,vi-VN;q=0.8,vi;q=0.7,ja-JP;q=0.6,ja;q=0.5
authorization: Basic bTdEaHJuX0FzZXpWOTRDM1ZMLUI6
content-length: 15
content-type: application/json
origin: https://myip
priority: u=1, i
referer: https://myip/
sec-ch-ua: "Chromium";v="128", "Not;A=Brand";v="24", "Google Chrome";v="128"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Linux"
sec-fetch-dest: empty
sec-fetch-mode: cors
sec-fetch-site: cross-site
user-agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0
```

- Response with **no** Access-Control-Allow-Origin header

```
cache-control: no-cache
content-length: 149
content-type: application/xml
date: Wed, 30 Oct 2024 11:56:55 GMT
server: nginx
set-cookie: eb_tracking_id=27f076a0-1782-4eab-b2db-82e421aff0a8; domain=.docraptor.com; path=/
strict-transport-security: max-age=63072000; includeSubDomains
x-request-id: 2cbb044e-5120-4b63-990d-5373c8135f23
x-runtime: 0.006626
```

- The official [docraptor-1.0.0.js](#) use `form.submit()` instead of JSON, with `user_credentials` instead of `Authorization: 'Basic API-key: '`

- while [its docs](#) says

HTTP Basic Authentication (preferred [over Query Parameter Authentication `user_credentials`])
JSON is preferred, but you can also send form encoded variables by wrapping the option with `doc[]` and adding another `[]` for sub options.

- Calling `fetch()` with [URLSearchParams](#) ⇒ 200 OK

- Request POST with `user_credentials` → 200 OK

```
Request URL: https://api.docraptor.com/docs?user_credentials=m7Dhrn_AsezV94C3VL-B&doc%5Btype%5D
Request Method: POST
Status Code: 200 OK
Remote Address: 54.88.97.245:443
Referrer Policy: strict-origin-when-cross-origin
origin: https://myip
priority: u=1, i
referer: https://myip/
sec-ch-ua: "Chromium";v="128", "Not;A=Brand";v="24", "Google Chrome";v="128"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Linux"
sec-fetch-dest: empty
sec-fetch-mode: cors
sec-fetch-site: cross-site
user-agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0
```


- Response with Access-Control-Allow-Origin header

```
access-control-allow-methods: GET,PUT,POST
access-control-allow-origin: https://myip
access-control-max-age: 900
cache-control: max-age=0, private, must-revalidate
content-disposition: attachment; filename="DocRaptor TestDocs.pdf"; filename*=UTF-8''DocRaptor%
content-length: 307561
content-transfer-encoding: binary
content-type: application/pdf
date: Wed, 30 Oct 2024 11:49:06 GMT
etag: W/"4b660d33d3558fb04e888493a29f3fe2"
expect-ct: max-age=86400, enforce, report-uri="https://o8095.ingest.sentry.io/api/15415/securit
referrer-policy: strict-origin-when-cross-origin
server: nginx
set-cookie: eb_tracking_id=6d84dcd6-e2f3-4657-ace7-6302d6de34f9; domain=.docraptor.com; path=/;
strict-transport-security: max-age=63072000; includeSubDomains
vary: Accept
x-content-type-options: nosniff
x-docraptor-num-pages: 31
x-download-options: noopen
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: fdad5347-c36b-4edb-8b29-27e7febceea3
x-runtime: 2.518433
x-xss-protection: 0
```

- Calling curl (and PostMan) with authorization: Basic & content-type:application/json ⇒ 200 OK
 - Command

```
curl -v https://m7Dhrn_AsezV94C3VL-B@api.docraptor.com/docs \
--fail --silent --show-error \
--header "Content-Type:application/json" \
--data '{"test": true,
      "document_url": "https://docraptor.com/examples/invoice.html",
      "type": "pdf" }' > docraptor.pdf
```

- Request POST → 200 OK

```
* Server auth using Basic with user 'm7Dhrn_AsezV94C3VL-B'
* Using Stream ID: 1 (easy handle 0x55bbbd95aa60)
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
} [5 bytes data]
> POST /docs HTTP/2
> Host: api.docraptor.com
> authorization: Basic bTdEaHJuX0FzZXpWOTRDMlZMLUI6
> user-agent: curl/7.81.0
> accept: */*
> content-type:application/json
> content-length: 115
```

- Response with Access-Control-Allow-Origin header

```
< HTTP/2 200
< date: Wed, 30 Oct 2024 11:37:43 GMT
< content-type: application/pdf
< content-length: 73613
< server: nginx
< x-frame-options: SAMEORIGIN
< x-xss-protection: 0
< x-content-type-options: nosniff
< x-download-options: noopen
< x-permitted-cross-domain-policies: none
< referrer-policy: strict-origin-when-cross-origin
< expect-ct: max-age=86400, enforce, report-uri="https://o8095.ingest.sentry.io/api/15415/secur
< x-docraptor-num-pages: 1
< content-disposition: attachment; filename="doc-482759486.pdf"; filename*=UTF-8''doc-482759486
< content-transfer-encoding: binary
< vary: Accept
< etag: W/"8f32cebf1d07925d239958081b738618"
< cache-control: max-age=0, private, must-revalidate
< set-cookie: _dr_session=202db46b696109479465316a86f031b3; path=/; expires=Wed, 30 Oct 2024 16
< set-cookie: eb_tracking_id=6d84dcd6-e2f3-4657-ace7-6302d6de34f9; domain=.docraptor.com; path=
< x-request-id: f3460bdb-aced-4cf6-9434-2e7b0ff59811
< x-runtime: 1.364432
< strict-transport-security: max-age=63072000; includeSubDomains
```

- Calling fetch() with form.submit() ⇒ 200 OK
 - Request POST → 200 OK

```
Request URL: https://api.docraptor.com/docs
Request Method: POST
Status Code: 200 OK
Remote Address: 34.226.73.93:443
Referrer Policy: strict-origin-when-cross-origin
accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,
accept-encoding: gzip, deflate, br, zstd
accept-language: en-US,en;q=0.9,vi-VN;q=0.8,vi;q=0.7,ja-JP;q=0.6,ja;q=0.5
cache-control: max-age=0
content-length: 208
content-type: application/x-www-form-urlencoded
origin: https://myip
priority: u=0, i
referrer: https://myip/
sec-ch-ua: "Chromium";v="128", "Not;A=Brand";v="24", "Google Chrome";v="128"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Linux"
sec-fetch-dest: document
sec-fetch-mode: navigate
sec-fetch-site: cross-site
sec-fetch-user: ?1
upgrade-insecure-requests: 1
user-agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0
```

- Response with `Access-Control-Allow-Origin` header

```
access-control-allow-methods: GET,PUT,POST
access-control-allow-origin: https://myip
access-control-max-age: 900
cache-control: max-age=0, private, must-revalidate
content-disposition: attachment; filename="DocRaptor TestDocs.pdf"; filename*=UTF-8''DocRaptor%
content-length: 307568
content-transfer-encoding: binary
content-type: application/pdf
date: Wed, 30 Oct 2024 12:51:16 GMT
etag: W/"53cb350849343d8085386f6bda50ce6a"
expect-ct: max-age=86400, enforce, report-uri="https://o8095.ingest.sentry.io/api/15415/securit
referrer-policy: strict-origin-when-cross-origin
server: nginx
set-cookie: eb_tracking_id=6d84dcd6-e2f3-4657-ace7-6302d6de34f9; domain=.docraptor.com; path=/;
strict-transport-security: max-age=63072000; includeSubDomains
x-content-type-options: nosniff
x-docraptor-num-pages: 31
x-download-options: noopen
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 864d5382-98eb-4df7-89dc-7425c6929f86
x-runtime: 2.499588
x-xss-protection: 0
```

- Testing functions `toPdf_*`()

```
// DocRaptor
const DocRaptorApiKey = "m7Dhrn_AsezV94C3VL-B";
const DocRaptorUrl = `https://api.docraptor.com/docs`;
const DocRaptorRequest = {
  // Test documents are free, but watermarked **nicely** at the top & bottom of each page
  "test": true,
  // Give a name for the docs
  "name": "DocRaptor TestDocs",
  // You can supply content directly
  "document_content": "",
  // or via a URL
  //"document_url": "http://www.evopdf.com/DemoAppFiles/HTML_Files/Structured_HTML.html",
  //"javascript": true, // for HTML display before conversion
  "type": "pdf", // Output type can be "pdf" or "xls" or "xlsx"
  //"prince_options": {
    //"media": "screen" // use screen styles instead of print styles
  //}
}

const Request = {
  method: 'POST',
  headers: {
    //'Content-Type': 'application/json',
    'Content-Type': 'application/x-www-form-urlencoded',
    'Accept': '*/*',
    //'Credentials': 'include',
    //'Access-Control-Allow-Origin': '*', // for preflight OPTIONS request
```

```

body: '',
}

const makeFormElement = function(name, value) {
  var element = document.createElement("textarea")
  element.name = name
  element.value = value
  return element
}

async function toPdf_form() { // use form.submit(), copied from https://docraptor.com/docraptor
  let form = document.createElement("form")
  form.action = "https://api.docraptor.com/docs"
  form.method = "post"
  form.style.display = "none"

  form.appendChild(makeFormElement("user_credentials", DocRaptorApiKey))
  form.appendChild(makeFormElement("doc[type]", 'pdf'));
  form.appendChild(makeFormElement("doc[test]", true));
  form.appendChild(makeFormElement("doc[name]", 'DocRaptor TestDocs'));
  form.appendChild(makeFormElement("doc[document_url]", 'http://www.evopdf.com/DemoAppFiles/'));

  document.body.appendChild(form);
  form.submit()
}

async function toPdf_params() { // use URLSearchParams
  let url = new URL(DocRaptorUrl);
  let params = new URLSearchParams(); // url.searchParams;
  params.append("user_credentials", DocRaptorApiKey);
  params.append("doc[type]", 'pdf');
  params.append("doc[test]", true);
  params.append("doc[name]", 'DocRaptor TestDocs');
  //params.append("doc[document_url]", 'http://www.evopdf.com/DemoAppFiles/HTML_Files/StructuredCloneTestDocs.html');
  params.append("doc[document_content]", mdhtml.innerHTML + markdown_style.outerHTML + pdf_style.outerHTML);
  let req = structuredClone(Request);
  req.body = params;

  res = await fetch(url.href, req); // , mode: "no-cors"
  console.debug('toPdf() fetch', req, res);
  if (!res.ok) {
    //console.log('Fetch error:', res);
    loadError(res.statusText);
    return;
  } else {
    message.innerHTML = '';
    message.style.display = 'none';
  }
  blob = await res.blob();
  console.debug('toPdf() fetch', params, blob);
  // blob URL will be stored in `exportUrl` and updated in cascade
  exportUrl.href = URL.createObjectURL(blob);
}

async function toPdf_JSON() { // use JSON
  //DocRaptorRequest.document_content = mdhtml.innerHTML + markdown_style.outerHTML + pdf_style.outerHTML;
  DocRaptorRequest.document_url = "https://docraptor.com/examples/invoice.html";

  let req = structuredClone(Request);
  req.headers.Authorization = 'Basic ' + btoa(DocRaptorApiKey + ':');
  req.body = DocRaptorRequest;
  let url = DocRaptorUrl; // `${DocRaptorUrl}?user_credentials=${DocRaptorApiKey}`;
  let res = await fetch(url, req);
  console.debug('toPdf() fetch', req, res);
  if (!res.ok) {
    //console.log('Fetch error:', res);
    loadError(res.statusText);
    return;
  } else {
    message.innerHTML = '';
    message.style.display = 'none';
  }
  let blob = await res.blob();
  console.debug('toPdf() fetch', DocRaptorRequest, blob);
  // blob URL will be stored in `exportUrl` and updated in cascade
  exportUrl.href = URL.createObjectURL(blob);
}

```

- TODO capture page into image (PNG/SVG)
- **Or, process content with vim commands**

- remove `:logbook:` and properties

```
%s/^\\s*:\\ (logbook\\|LOGBOOK\\):\\_\\.\\{-}\\s*:END:\\n//
%s/^\\s*\\w\\+::\\.\\s*\\n//
```

- remove first tab with `Ctrl v`, or with command

```
%s/^\\t\\(\\.\\s*\\)/\\1/
```

- unitemize headings

```
%s/^- #\\(\\.\\s*\\)/\\r#\\1\\r/
```

- process code block for strict conventions like in GitLab

```
%s/^\\(\\t*\\)- ```/\\r\\1```/|%s/  ```/```\\r/|%s/\\t  /\\t/
```

- replace items bullets with numbers: `V` select all items, then

```
'<,>s/^- \\(\\.\\s*\\)/1. \\1/
```

- replace links to `assets` & `publish`

```
%s#../assets/projects/java17/aal_gw/##g
%s#(publish/projects/java17/aal_gw/\\([\\^]\\s*\\))#(\\1.md)#g
```

- Replace straight quotes with curly quotes

```
%s/"\\(\\S\\)/"\\1/g|%s/\\(\\S\\)"/\\1"/g
```