

```
label: Five levels down

    Realize: This dialog contains a form field 'targetPageLink' for linking to a Page. And a second 'select' field where the author can define how many levels down the recursion should
4. Make the 'recursivePageLinkList' component available on the 'first' page.
            Operate on the light module 'training-templating-additional' in the file system.

a. Create this folder structure:

/training-templating-additional/decorations/training-templating-freemarker/templates/pages/
                       b. Create the decoration file: first.yaml:
                                         main:
                                               availableComponents:
                                                     recursivePageLinkList:
   id: training-templating-additional:components/recursivePageLinkList
                                                                 pages first.yan
                                 ① Remember: An area is basically a component container; that's why components get added into areas.
                                  A Forgetting or skipping this step means that the component can't be added anywhere and can't be tested.
5. Create page and test the behavior.
            Operate in the 'Pages' app.
a. Create a new page of type 'first' and render it.
b. Add a 'recursivePageLinkList' component into the page.
                             The result:
                                      magnolia<sup>-</sup>
                                                            - 'Recursive Page Link List' component
6. Resolve TODO 1 in: recursivePageLinkList.ftl

✓ Detailed steps

             Operate in the light module 'training-templating-additional' in the file system.
                       a. Navigate to the folder page script:
                             / training-templating-additional/templates/components/recursive Page Link List.ft 1\\
                       b. Try to resolve the 'TODO 1':

→ Expand for the code

                                     Read the comment for coding instructions.
                                                        TODO 1
Do: - delegate the list directive and its children loop to a macro.
- pass to the macro following three things:
-- node to get children from
-- depth of the targethageHode -> startDepths
-- maxLevel -> read from the 'content' what the author defined
- call within the macro on each child the macro itself again -> recursion
- stop the recursion when the maxDepth is reached ->
                                           [#list cmsfn.children(targetPageNode, "mgnl:page")]
                                                       [#items as childNode]
                                                                    cline as childwode;
<a href="${cmsfn.link(childNode)!}">${childNode.title!childNode.@name}</a>
                                                       [/#items]
                                          [/#list]

→ Cheat for the code - BUT first try it your self;)

                                                    [#assign maxLevels = content.maxLevels!3]
                                                    [#assign targetPageNode = cmsfn.contentById(content.targetPageLink, "website")! /]
[#assign targetPageNodeDepth = targetPageNode.@depth!1]
                                                   [@linkChildren targetPageNode targetPageNodeDepth maxLevels /]
                                                    [#-- The macro getting all the childNode nodes and calling itself recursive. --]
                                                    [#macro linkChildren node startNodeDepth maxLevels]
                                                               [#list cmsfn.children(node, "mgnl:page")]
                                                                          [#items as childNode]
                                                                                        $$ \aline{1.00} $$ \sin^2 \frac{1}{2} - \frac{1}{2} \sin^2 \frac{1}{2} \sin^2 \frac{1}{2} \cos^2 \frac{1} \cos^2 \frac{1}{2} \cos^2 \frac{1}{2} \cos^2 \frac{1}{2} \cos^2 \frac{1}{2} \cos^2 \frac{1}{2} \cos^
                                                                                        [#assign childNodeDepth = childNodeDepth!2]
[#assign doRecursion = (childNodeDepth - startNodeDepth) < maxLevels]</pre>
                                                                                      | ### doRecursion1false|
| ## - The recursive call on the childNode again. --]
| [@linkChildren childNode startNodeDepth maxLevels /]
| [/#if]
                                                                           [/#items]
                                                                [/#list]
                                                   [/#macrol
                       c. The result:
                                                                                              Q Find.
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