

Webworks Publisher Tutorial

Better Jumps to Topic Titles

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The Situation

By default Webworks Publisher uses file names and paragraph numbers as hyperlink targets, e.g. ``. Most web browsers try to position the paragraph with the corresponding name anchor `` at the top of the screen if possible. If you jump to the top of a scrollable topic, any content above the title line (e.g. navigation graphics) is hidden.

There are a few easy counter measures:

- Remove the paragraph numbers from the TOC.
This is a solution, if your TOC entries always jump to the top of topics, because jumps to locations within a topic would no longer work. However, you may have hyperlinks from within your topics as well. How do you deal with them?
- Remove the `` name anchors from all topic titles.
This currently works with some browsers, but the documents are technically no longer valid, because your jumps specify targets that do not exist. Also some browsers scroll to the bottom of a topic if they cannot find the name anchor.

Bottom line: A better method is needed to work with all hyperlinks and to still generate valid HTML documents.

The Idea

Check all hyperlinks (including those in the TOC and Index), to find out whether their target is a topic title. To accomplish this store the title's paragraph number and compare that value with the paragraph number specified in any hyperlink before building the link.

Store the Title Paragraph Number

To store the title paragraph number in a page attribute, insert the following line into the Paragraph Style **NewHTMLPage**:

```
@SET_ATTR(title_tag,$AUTOTAG;);\
```

This way every output page gets an attribute **title_tag**, the content of which is the paragraph number (AUTOTAG) of its title.

Compare the Paragraph Number

Now examine the target of every hyperlink. Luckily all hyperlinks (cross-references as well as hypertext markers) use the Marker Style **GotoLinkOpen**:

```
$IF_LINKRESOLVED (
$IF_EQUAL($DATA["^message URL"];, message URL,
  <a href="$DATA["^message URL ", ""];">,
  <a href="$BPLinkFile;#$LINKTAG;">\
););
```

This style already contains two tests: Is the link resolved (IF_LINKRESOLVED) and is it possibly a hyperlink to an external URL (IF_EQUAL)? If it is a standard link, the style outputs the fourth line () and this is where modifications are made.

The new test in plain text: »If the target paragraph number (\$LINKTAG;) is the same as the title paragraph number of the target page (GET_ATTR(\$LINKFILE;,title_tag);), then do not output the target paragraph number.«

Translated into WWP and embedded in the Marker Style **GotoLinkOpen** it looks like this (bold lines are new):

```
$IF_LINKRESOLVED (
$IF_EQUAL($DATA["^message URL"];, message URL,
  <a href="$DATA["^message URL ", ""];">,
$IF_EQUAL($LINKTAG;, $GET_ATTR($LINKFILE;,title_tag);,
  <a href="$BPLinkFile;">,
  <a href="$BPLinkFile;#$LINKTAG;">\
);\  
););
```

It's that simple! If you also use image maps you have to modify the Marker Style **ImageGotoLink** as well; replace the line

```
<area href="$BPLinkFile;#$LINKTAG;" shape="rect" coords="$SHAPECOORDS;"\
```

with these four lines:

```
$IF_EQUAL($LINKTAG;, $GET_ATTR($LINKFILE;,title_tag);,
  <area href="$BPLinkFile;" shape="rect" coords="$SHAPECOORDS;",
  <area href="$BPLinkFile;#$LINKTAG;" shape="rect" coords="$SHAPECOORDS;"\
);\  
););
```

Happy jumps!