Subject: Text wrapping in QTF Table
Posted by Pradip on Fri, 19 Mar 2021 05:23:09 GMT
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Hi guys,

I'm trying to make a QTF table, and it's needed to have all rows with exactly same row height, without wrapping Strings in the cells but truncating and probably adding an ellipsis character. I found DrawTextEllipsis() routine but not sure how could I use it in QTF.

Any ideas?

Subject: Re: Text wrapping in QTF Table
Posted by mirek on Sat, 20 Mar 2021 11:59:32 GMT
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Pradip wrote on Fri, 19 March 2021 06:23Hi guys,

I'm trying to make a QTF table, and it's needed to have all rows with exactly same row height, without wrapping Strings in the cells but truncating and probably adding an ellipsis character. I found DrawTextEllipsis() routine but not sure how could I use it in QTF.

Any ideas?

You cannot use DrawTextEllipsis there.

This is though one. If I really needed this, I would probably:

- create temporary RichText just for testing with the cell of correct width and with intended font
- measure the height of text (with GetHeight)
- put the inteded text into this cell
- keep shortening the text until the height matches (you can use binary search to make this log(len(text)))
- use this shortened text in the real table.

Not very elegant, but not that hard to implement and should work...

Mirek

Subject: Re: Text wrapping in QTF Table
Posted by Pradip on Mon, 22 Mar 2021 05:38:58 GMT
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Yesss, I had started working in that line! Thanks a lot Mirek!

I think you meant to measure the width, not height, with GetWidth(), I've seen this works! I'm planning to measure the width of the intended ellipsis character as well and shorten the text and add the ellipsis to fit in the cell width. It will suffice as long as it works, needn't be too elegant :d

But how to implement the binary search with log(len(text)) (which I think will save few iterations)?

Subject: Re: Text wrapping in QTF Table
Posted by mirek on Mon, 22 Mar 2021 06:58:24 GMT

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Pradip wrote on Mon, 22 March 2021 06:38Yesss, I had started working in that line! Thanks a lot Mirek!

I think you meant to measure the width, not height, with GetWidth(), I've seen this works! I'm planning to measure the width of the intended ellipsis character as well and shorten the text and add the ellipsis to fit in the cell width. It will suffice as long as it works, needn't be too elegant :d

I really meant Height. I guess width will work too, but maybe less reliably and more complicated.

Quote:
But how to implement the binary search with log(len(text)) (which I think will save few iterations)?

Think of it as function - the parameter is the number of characters you have to remove. This goes from 0 to len(text).

To maximize it, you start at len/2. If it fits, the correct number is in len/2, len range. If not, in 0 to len/2. Rinse and repeat...

Subject: Re: Text wrapping in QTF Table
Posted by Pradip on Tue, 23 Mar 2021 07:13:10 GMT

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Yes, got your idea of checking the height. And the binary search would be very cool! For time being this code does the job for me:

```
void TrimQTFTextEllipsis(String& qtf, int width, const String& ellipsis) {
 String str = qtf;
 while(ParseQTF(qtf).GetWidth() > width) {
  str.TrimLast();
  qtf = str + ellipsis;
 }
}
```

It's not really elegant, will trim ending ']' from QTF if it's there, so that should be added after trimming. However with the width given correctly it works pretty good. Uploading image of output.

Will try to implement the way you suggested when I can do some optimisation.

File Attachments

1) Screenshot 2021-03-23 123857.jpg, downloaded 416 times

Subject: Re: Text wrapping in QTF Table
Posted by mirek on Tue, 23 Mar 2021 07:53:31 GMT
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Pradip wrote on Tue, 23 March 2021 08:13Yes, got your idea of checking the height. And the binary search would be very cool! For time being this code does the job for me:

```
void TrimQTFTextEllipsis(String& qtf, int width, const String& ellipsis) {
 String str = qtf;
 while(ParseQTF(qtf).GetWidth() > width) {
  str.TrimLast();
  qtf = str + ellipsis;
 }
}
```

It's not really elegant, will trim ending ']' from QTF if it's there, so that should be added after trimming. However with the width given correctly it works pretty good. Uploading image of output.

Will try to implement the way you suggested when I can do some optimisation.

With GetHeight, you would not need to specify width...

Mirek

Subject: Re: Text wrapping in QTF Table
Posted by Pradip on Wed, 24 Mar 2021 04:39:42 GMT
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Quote:With GetHeight, you would not need to specify width...

Oh, sorry I don't know how to handle RichCell and RichText properly :blush:

To create that test cell we would still need to know the correct width right?

Subject: Re: Text wrapping in QTF Table
Posted by mirek on Sat, 27 Mar 2021 09:44:22 GMT
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Pradip wrote on Wed, 24 March 2021 05:39Quote:With GetHeight, you would not need to specify width...

Oh, sorry I don't know how to handle RichCell and RichText properly :blush:
To create that test cell we would still need to know the correct width right?

If you put nothing into it, just empty paragraph with proper font set, it will give you the height you need.

(Although, this might not be guaranteed in the future. Today, single line / single font cell height only depends on the font set. It is possible that with advanced unicode support, we will need to adjust that for characters with multiple marking that will extend the height of individual characters...)