Japanese (with furigana) in Org-mode

1 Proposed header

2 Proposed footer

#+LATEX: \clearpage\end{CJK*}

3 How to use it

Insert the proposed header and footer into your Org file, this will enable you to write Japanese text in your Org documents. Text will be exported correctly in HTML and PDF.

You can write Japanese text (ex.: 東京) and use the proposed macro furigana to add furigana signs on top of a kanji. Examples:

- {{ $furigana(x,mi zu)}}} <math>\Rightarrow x^{mi,zu}$
- {{furigana(亀,かめ)}} ⇒ 篭
- {{furigana(大,いぬ)}}} ⇒ 犬
- {{{furigana(猫,ねこ)}}} ⇒ 矯

4 Problems and limitations

4.1 font size is rather small in the PDF defaults

As a workaround, you could reduce page size to a6paper. Simply add the following header in the Org file:

```
#+LATEX_HEADER: \usepackage[a6paper,margin=0.5in]{geometry}
```

You might prefer to increase font size instead of reducing page size, but standard LaTex usually limits fonts to 12pt size.

4.2 Japanese text is suppressed in PDF title

I don't know any solution or workaround for this yet; sorry:(.

4.3 PDF output fails if there is Japanese text in Org headlines

This is due to a limitation of the PDF bookmarks, but there is a couple of suggested workarounds.

4.3.1 workaround 1 (boring)

Generate output to a LATEX file instead than PDF, then replace \section{<japtext>} into \section[simpletext]{japtext} in the .tex file, where simpletext is some plain ASCII text (actually I think that all ISO-8859-1 characters are supported as well). After the corrections, generate a PDF from the .tex file using pdftex.

4.3.2 workaround 2

Generate output to a IATEX file instead than PDF, then in the .tex file replace

\usepackage{hyperref}

into

\usepackage[bookmarks=false]{hyperref}

After the correction, generate a PDF from the .tex file using pdftex.

4.3.3 workaround 3 disable hyperref

This can be done by removing hyperref package from the Org option org-latex-default-packages-alist. This will disable all hyperref features in the generated PDFs, so it's probably better **not** to remove it permanently from your Emacs init file.

4.3.4 a better workaround could be...

Subclass the Latex exporter so that it automatically behaves the same as workaround 1.