

Generating LaTeX from reST for Software Documentation

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BachTeX 2016

reStructuredText markup notation

docutils document converter

David Goodger (Canada)
and others

Sphinx for many-file documents

Georg Brandl (Germany)
and others

One source – many output formats

reStructuredText $\rightarrow$ HTML, PDF (via TeX), ePub, ...

Extensions (Python)

- Own classes (for directives and text roles).
- Class overloading.
- Transformations.

reST

⇓ syntax analysis

document tree

⇓ transformations

extended document tree

⇓ writing

HTML or L^AT_EX or ...

Use serif or sans-serif font?

Dilemmas

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Use a narrow column or the wide one?

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What basic font size?

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Paragraphs – justified or raggedright?

```
def visit_emphasis(self, node):  
    self.body.append(r'\emph{')  
  
def depart_emphasis(self, node):  
    self.body.append('}')
```

```
def visit_emphasis(self, node):  
    if isinstance(node.parent,  
                    nodes.reference):  
        self.body.append(r'\relax{')  
    else:  
        self.body.append(r'\emph{')
```