

Statistical
machine
translation



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graph TD; A[Statistical machine translation] --> B[Source text]; A --> C[Target text]; B --> D["Text analysis (formatting, morphology, syntax, etc.)"]; D --> E[Translation rules]; E --> F["Post-editing (formatting, context, etc.)"]; F --> C
```

The diagram illustrates the Statistical Machine Translation (SMT) process. It begins with a central box labeled 'Statistical machine translation'. A blue arrow branches from this box to two green boxes: 'Source text' on the left and 'Target text' on the right. From 'Source text', a yellow arrow points down to an orange box labeled 'Text analysis (formatting, morphology, syntax, etc.)'. From 'Target text', a yellow arrow points up to an orange box labeled 'Post-editing (formatting, context, etc.)'. Both of these orange boxes have yellow arrows pointing towards a final green box at the bottom labeled 'Translation rules'. The 'Translation rules' box is positioned centrally below the two orange boxes, with arrows from both pointing to it.

Source
text

Target
text

Text analysis
(formatting,
morphology,
syntax, etc.)

Post-editing
(formatting,
context,
etc.)

Translation rules