

source .tex file

pos = 23

pos = 24

```
\documentclass{article}
\title{The Declaration of Independence}
\author{Thomas Jefferson}
\date{June 28, 1776}
\begin{document}
\maketitle
```

When in the Course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, the separate and equal station to which the Laws of Nature and of Nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness.

```
\end{document}
```

tokenizing

token

meta data such as
type, position and
length of lexeme

specialized (empty) tokens for
paragraphs, start and end of file

lexical analysis

	START_OF_FILE @ 0 (0)
\documentclass	COMMAND @ 0 (14)
{	SYMBOL @ 14 (1)
article	WORD @ 15 (7)
}	SYMBOL @ 22 (1)
\title	COMMAND @ 24 (6)
...	
\date	COMMAND @ 91 (5)
{	SYMBOL @ 96 (1)
June	WORD @ 97 (4)
28	WORD @ 102 (2)
,	PUNCTUATION @ 104 (1)
1776	WORD @ 106 (4)
...	
\separation	WORD @ 492 (10)
.	PUNCTUATION @ 502 (1)
	PARAGRAPH @ 503 (2)
We	WORD @ 507 (2)
hold	WORD @ 510 (4)
...	
document	WORD @ 722 (8)
}	SYMBOL @ 730 (1)
	END_OF_FILE @ 732 (0)