History of LaTeX
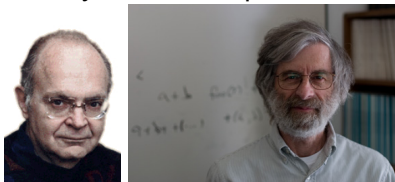
- TeX was created by Donald Knuth of in 1977
- Disappointing galley proofs
- LaTeX was written by Leslie Lamport in 1985

https://www-cs-faculty.stanford.edu/~knuth/, http://www.lamport.org/

I had spent 15 years writing those books, but if they were going to look awful I didn't want to write any more.

[Donald E. Knuth. *Digital Typography*. CSLI Publications, Stanford, CA, USA, 1999, p. 5.]

Knuth Reward Check

http://www.truetex.com/knuthchk.jpg

- Reward for coding, technical, historical or other errors in his books and programs

Knuth Reward Check

- Reward for coding, technical, historical or other errors in his books and programs
- One hexadecimal dollar

LaTex Community

- modify other code [templates]
- google "latex code for integral"

Topic Idea: Transformations

Name

Experience with Transformations:

- In MAT 2240: *Introduction to Linear Algebra* we explored matrix transformations in 2-D and 3-D.

- In MAT 3110: *Modern Algebra* we explored symmetry groups, like the dihedral group, the group S_4 and the symmetries of a cube and tetrahedron.

- In MAT 3610: *Introduction to Geometry* we explored symmetries of the five regular polyhedra.

Prior Progress:
Search and report back on one interesting item related to prior progress in the area of your course project (it could be someone who laid groundwork on the topic, or peripheral but connected research or history). Include the date and the name of the person and their contribution, and remove these instructions.

Recent Scholarly Journal Article:
Search MathSciNet or other Library Databases for recent scholarly journal articles related to your course project topic and write down one item that you find, including the date and the journal, as well as the title, and remove these instructions.

Author's e-mail address: replace.emailaddress@appstate.edu

Template 1 Commands for the Header and Title Page

```
\documentclass[12pt]{article}
\title{\vspace*{-4cm}Topic Idea: Transformations}
\author{Name}

\begin{document}
\date{}
\maketitle
```

Template 1 Rest of Code

```
{\bf Experience with Transformations:}
\begin{itemize}
\item In MAT 3110: \emph{Modern Algebra}, we...
\end{itemize}
\vspace*{.5cm}
{\sl Author's e-mail address:}  replace_emailaddres
\end{document}
```

1. itemize - bulleted list
2. enumerate - numbered list
3. vspace, hspace
4. caution: "2 single left quotes" versus
   "double quotes on left" and symbols:

```
~          _       $   #    %   &    {    "
$\sim$ \_   \$  \#   \%  \&  \{   ''
```