Latex macros

```
In [1]: | %%latex
         \newcommand{\x}{\mathbf{x}}}
         \newcommand{\tx}{\tilde{\x}}
         \newcommand{\y}{\mathbf{y}}}
         \newcommand{\b}{\mathbf{b}}}
         \newcommand{\c}{\mathbf{c}}}
         \newcommand{\e}{\mathbf{e}}}
         \newcommand{\z}{\mathbf{z}}}
         \newcommand{\h}{\mathbf{h}}}
         \newcommand{\u}{\mathbf{u}}}
         \newcommand{\v}{\mathbf{v}}}
         \newcommand{\w}{\mathbf{w}}}
         \newcommand{\V}{\mathbf{V}}}
         \newcommand{\W}{\mathbf{W}}}
         \newcommand{\X}{\mathbf{X}}}
         \newcommand{\KL}{\mathbf{KL}}}
         \newcommand{\E}{{\mathbb{E}}}}
         \newcommand{\Reals}{{\mathbb{R}}}
         \mbox{\newcommand}{\ip}{\mbox{\mbox{\mbox{\mod}}}}
         % Test set
         \newcommand{\xt}{\underline{\x}}
         \newcommand{\yt}{\underline{\y}}
         \newcommand{\Xt}{\underline{\X}}
         \newcommand{\perfm}{\mathcal{P}}}
         % \ll indexes a layer; we can change the actual letter
         \newcommand{\ll}{l}
         \newcommand{\llp}{{(\ll)}}
         \newcommand{Thetam}{\Theta {-0}}
         % CNN
         \newcommand{\kernel}{\mathbf{k}}
         \newcommand{\dim}{d}
         \newcommand{\idxspatial}{{\text{idx}}}
         \newcommand{\summaxact}{\text{max}}
         \newcommand{idxb}{\mathbf{i}}}
         응
         양
         % RNN
         % \tt indexes a time step
         \newcommand{\tt}{t}
         \mbox{newcommand} \tp}{\{(\tt)\}}
         응
         응
         % LSTM
         \newcommand{\g}{\mathbf{g}}}
         \newcommand{\remember}{\mathbf{remember}}
         \newcommand{\save}{\mathbf{save}}}
```

```
\newcommand{\focus}{\mathbf{focus}}}
응
% NLP
\newcommand{\Vocab}{\mathbf{V}}
\newcommand{\v}{\mathbf{v}}}
\newcommand{\offset}{o}
\newcommand{\o}{o}
\newcommand{\Emb}{\mathbf{E}}}
양
\mbox{\newcommand{\loss}{\mathcal{L}}}
\newcommand{\cost}{\mathcal{L}}}
\newcommand{\pdata}{p_\text{data}}
\newcommand{\pmodel}{p_\text{model}}
양
% SVM
\newcommand{\margin}{{\mathbb{m}}}
\newcommand{\lmk}{\boldsymbol{\ell}}
```