

tabularray로 표 그리기

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도입

혜성처럼 등장한...

- Overleaf users must download from
<https://ctan.org/tex-archive/macros/latex/contrib/tabularray> and put it in the project directory.
- `sudo tlmgr update tabularray`
- 2022A 기준

표를 그리자

| 입력 | 출력 |
|----|----|
| 1 | 5 |
| 2 | 7 |
| 3 | 9 |

기본

열 타입 i

colspec

참고: Tabularray[†] 매뉴얼 ???

| | |
|-------|------|
| a_i | b |
| | text |
| x_i | text |

```
\begin{tblr}{%
  vlines, hlines,
  colspec = {Q[$]l},
}
  a_i & b & \\
    & text & \\
  x_i & text & \\
\end{tblr}
```

[†]버전 2022A (2022-03-01)

칸 정렬 i

tbhf h: text in the head of the cell

f: foot of the cell

b: bottom line in the middle

t: top line in the middle

참고: Tabularray[†] 매뉴얼 ???

| row head | top line | middle | line bottom | row foot |
|-------------|-------------|-----------------------|----------------|-------------|
| row head | top line | 11 22 mid 44 | line bottom | row foot |

칸 정렬 ii

```
\begin{tblr}[t]{hlines, colspec={c}, baseline=T}
  \hline
  {row\\head} & {top\\line} & {middle} & {line\\bottom}
    & {row\\foot} \\
  \hline
  {row\\head} & {top\\line} & {11\\22\\mid\\44\\55} & {
    line\\bottom} & {row\\foot} \\
  \hline
\end{tblr}
```

[†]버전 2022A (2022-03-01)

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문장과 정렬 ii

```

Lorem ipsum
\begin{tblr}[t]{hlines, colspec={c}, baseline=T}
dolor \\\ sit \\\ amet,
\end{tblr}
consectetur
\begin{tblr}[b]{hlines, colspec={c}, baseline=B}
adipiscing \\\ elit. \\\
\end{tblr}
```

[†]버전 2022A (2022-03-01)

심화

특별한 구분자 i

vline & hline

참고: Tabularray[†] 매뉴얼 **2.2 Hlines and Vlines**

| | | | | |
|--|-----------|------------|-----|------|
| Equation : $\text{CH}_4 + 2\text{O}_2 \longrightarrow \text{CO}_2 + 2\text{H}_2\text{O}$ | | | | |
| Initial | n_1 | n_2 | 0 | 0 |
| Final | $n_1 - x$ | $n_2 - 2x$ | x | $2x$ |

특별한 구분자 ii

```
% \usepackage{chemmacros} in the preamble
\begin{tblr}{%
  vlines, hlines,
  colspec = {lX[c]X[c]X[c]X[c]},
  vline{2} = {1}{ text = \clap{:} },
  vline{3} = {1}{ text = \clap{\ch{+}} },
  vline{4} = {1}{ text = \clap{\ch{->}} },
  vline{5} = {1}{ text = \clap{\ch{+}} },
}
Equation & \ch{CH4} & \ch{2 O2} & \ch{CO2} & \ch{2 H2O}
        } \\\
Initial   & $n_1$      & $n_2$      & 0          & 0 \\\
Final     & $n_1-x$    & $n_2-2x$   & $x$        & $2x$ \\\
\end{tblr}
```

[†]버전 2022A (2022-03-01)

표 명령어 i

- `\NewTableCommand`를 사용하여 표 안에서 명령 사용 가능
- `\NewTableCommand` 안에는 텍스트 입력 불가
- `expand` 옵션으로 타협

참고: `Tabularray`[†] 매뉴얼 **3.2.3 Expand Macros First, 3.6 New Table Commands**

| | | | |
|---|------|-------|-------|
| 1 | Beta | Gamma | Delta |
| 2 | Beta | Gamma | Delta |
| 3 | Beta | Gamma | Delta |

표 명령어 ii

```
% \NewTableCommand\SC{\SetCell{bg=red8}} in the preamble
\begin{tblr}{%
  hlines, vlines,
  cell{1}{2-4} = {bg=gray9},
}
  1 & Beta & Gamma & Delta & \\\
  2 & Beta & Gamma & Delta & \\\
  3 & \SC Beta & \SC Gamma & Delta & \\\
\end{tblr}
```

[†]버전 2022A (2022-03-01)

표 환경 i

- \NewTblrEnviron를 사용하여 새로운 표 환경 정의 가능
- 내부 설정 (inner specifications)
- 외부 설정 (outer specifications)

참고: Tabularray[†] 매뉴얼 **3.1 Inner Specifications, 3.2 Outer Specifications, 3.4 New Tabularray Environments, 3.5 New General Environments**

| | | | |
|---|------|-------|-------|
| 1 | Beta | Gamma | Delta |
| 2 | Beta | Gamma | Delta |
| 3 | Beta | Gamma | Delta |

표 환경 ii

```
% \NewTableCommand\SC{\SetCell{bg=red8}} in the preamble
\begin{tblr}{%
  hlines, vlines,
  cell{1}{2-4} = {bg=gray9},
}
  1 & Beta & Gamma & Delta & \\\
  2 & Beta & Gamma & Delta & \\\
  3 & \SC Beta & \SC Gamma & Delta & \\\
\end{tblr}
```

[†]버전 2022A (2022-03-01)

siunitx i

참고: Tabularray[†] 매뉴얼 ???

| V_s [mV] | V_R [mV] | V_D [mV] | I_D [μ A] |
|------------|------------|------------|------------------|
| 100.47 | 0.035 | 100.002 | 0.035 |
| 199.67 | 0.144 | 199.46 | 0.145 |
| 296.41 | 0.974 | 295.17 | 0.983 |
| 400.26 | 7.470 | 392.57 | 7.539 |
| 500.13 | 36.904 | 463.48 | 37.247 |
| 602.24 | 94.535 | 507.65 | 95.413 |
| 703.92 | 168.73 | 535.10 | 170.30 |
| 801.07 | 248.07 | 552.89 | 250.37 |
| 899.73 | 332.25 | 567.62 | 335.34 |
| 1008.14 | 428.76 | 579.35 | 432.74 |
| 1104.33 | 514.13 | 589.49 | 518.90 |
| 1200.23 | 602.45 | 597.38 | 608.04 |

siunitx ii

```
% \UseTblrLibrary{booktabs}
% \UseTblrLibrary{siunitx} in the preamble
\begin{tblr}{S[table-format=4.2]S[table-format=3.3]S[
  table-format=3.3]S[table-format=3.3]}
  \toprule
  {{{$V_s$ [mV]}}} & {{{$V_R$ [mV]}}} & {{{$V_D$ [mV]}}}
    & {{{$I_D$ [ $\mu$ A]}}} \\
  \midrule
  100.47      & 0.035      & 100.002    & 0.035\\
  199.67      & 0.144      & 199.46     & 0.145\\
  296.41      & 0.974      & 295.17     & 0.983\\
  400.26      & 7.470      & 392.57     & 7.539\\
  500.13      & 36.904     & 463.48     & 37.247\\
  602.24      & 94.535     & 507.65     & 95.413\\
  703.92      & 168.73     & 535.10     & 170.30\\
  801.07      & 248.07     & 552.89     & 250.37\\
```

siunitx iii

| | | | |
|---------|----------|----------|------------|
| 899.73 | & 332.25 | & 567.62 | & 335.34\\ |
| 1008.14 | & 428.76 | & 579.35 | & 432.74\\ |
| 1104.33 | & 514.13 | & 589.49 | & 518.90\\ |
| 1200.23 | & 602.45 | & 597.38 | & 608.04\\ |

\bottomrule
\end{tblr}

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