

LATEX codes

LATEX Template

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Victory won't come to us unless we go to it.

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Chapter 1 ElegantLATEX Templates

ElegantIATEX codes

1.1 title

The corresponding code is:

```
\title{\LaTeX{} codes}
\maketitle
```

1.2 references

The corresponding code is:

```
\addbibresource{references.bib}
\cite{bibid}
\printbibliography
```

1.3 Character

And symbol Z & S

1.4 Figure

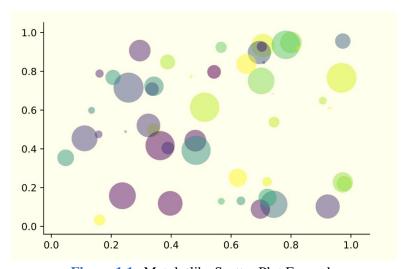
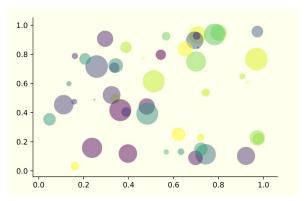


Figure 1.1: Matplotlib: Scatter Plot Example

The corresponding code is:

```
\begin{figure}[htbp]
  \centering
  \includegraphics[width=0.6\textwidth]{figure/scatter.jpg}
```

\caption{Matplotlib: Scatter Plot Example\label{fig:scatter}}
\end{figure}



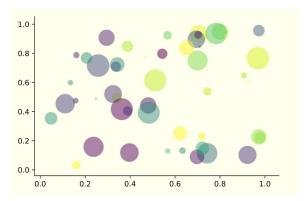


Figure 1.2: South American coati

Figure 1.3: Brown bear

The double image in one row /side-by-side corresponding code is:

```
\begin{figure} [ht]
\begin{minipage} [b] {0.45\linewidth}
\centering
\includegraphics[width=\textwidth] {figure/scatter.jpg}
\caption{figure 1}
\label{fig:nasua}
\end{minipage}
\hspace{0.5cm}
\begin{minipage} [b] {0.45\linewidth}
\centering
\includegraphics[width=\textwidth] {figure/scatter.jpg}
\caption{figure 2}
\label{fig:Ursus-arctos}
\end{minipage}
\end{figure}
```

1.5 Table

Table The corresponding code is:

Table 1.1: Theorem Class Environments

Environment	Label text Prefix		Cross-reference	
definition	label	def	\ref{def:label}	

```
\begin{table}[htbp]
  \centering
  \caption{Theorem Class Environments}
  \begin{tabular}{1111}
    \toprule
    Environment & Label text & Prefix & Cross-reference \\
```

```
\midrule
definition & label & def & \lstinline|\ref{def:label}| \\
\bottomrule
\end{tabular}%
\label{tab:theorem-class}%
\end{table}%
```

Table 1.2: Common methods for measuring respiration rate

Method	Timescale of measurement	Spatial resolution	Time series possible?	Examples
Sealed-chamber respirometry	minutes	none	yes	mouse embryos [houghton1996]; tissue culture cells [ferrick2008]; isolated mitochondria [gnaiger2000]
Open-chamber respirometry	hours	none	yes	bovine oocytes [lopez2005]
Fluorescence lifetime imaging microscopy (FLIM)	seconds	yes	yes	mouse oocytes and tissue culture cells [Yang2021elife]

The corresponding code is:

```
\begin{table}[h]
 \tabcolsep7.5pt
 \caption{Common methods for measuring respiration rate}
 \label{tab:respiration}
 \begin{center}
  |m{0.27\text{textwidth}}|
    \hline
    Method & Timescale of measurement & Spatial resolution & Time series possible? &
        Examples \\ \hline
    Sealed-chamber respirometry & minutes & none & yes & mouse embryos \cite{houghton
        1996}; tissue culture cells \cite{ferrick2008}; isolated mitochondria \cite{
        gnaiger2000} \\ \hline
    Open-chamber respirometry & hours & none & yes & bovine oocytes \cite{lopez2005} \\
    Fluorescence lifetime imaging microscopy (FLIM) & seconds & yes & yes & mouse oocytes
        and tissue culture cells \cite{Yang2021elife} \\ \hline
  \end{tabular}
 \end{center}
\end{table}
```

1.6 url, itemize, enumerate

URL usage: text

You can use lstlisting to list the code: The corresponding code is:

```
begin{lstlisting}
end{lstlisting}
```

itemize list The corresponding code is:

```
\begin{itemize}
  \item Italian translation \href{https://github.com/VincentMVV}{VincentMVV}
  \end{itemize}
```

enumerate list

- 1. first item of nesti;
- 2. second item of nesti;

```
The corresponding code is:

\begin{enumerate}
  \item first item of nesti;
  \item second item of nesti;
\end{enumerate}
```

1.7 math formulas

formulas equation $a^2 + b^2 = c^2$

```
$a^2+b^2=c^2$
```

equation:

$$\int_{\mathbb{R}^q} f(x, y) dy. off \tag{1.1}$$

The corresponding code is:

```
\begin{equation}
  \int_{R^q} f(x,y) dy.\emph{of\kern0pt f}
\end{equation}
```

equation:

$$a^2 + b^2 = c_{2i}(1,2)[1,23] (1.2)$$

The corresponding code is:

```
\begin{equation}
    a^2+b^2=c_{2_{i}} (1,2) [1,23]
\end{equation}
```

equation **Summation Operator**. If $\{x_i : i = 1, 2, ..., n\}$ is a sequence of n numbers, the summation of the n numbers is:

$$\sum_{i=1}^{n} x_i \equiv x_1 + x_2 + \dots + x_n \tag{1.3}$$

The corresponding code is:

```
\begin{equation}
  \sum_{i=1}^n x_i \equiv x_1 + x_2 +\cdots + x_n
\end{equation}
```

box equation

$$m\frac{dv}{dt} = -mg + \iiint_{\text{tore-en-mouvement}} (\vec{j} \times \vec{B}) \cdot \vec{e_z} d\tau$$
(1.4)

The corresponding code is:

```
\begin{equation}
\boxed{
    m \frac{dv}{dt} = -mg + \iiint_{
        \textrm{tore-en-mouvement}} (\vec{j} \times \vec{B}) \cdot \vec{e_z}
}d\tau
    }
\label{m}
\end{equation}
```

fraction equation $ab\cdot x^5+x^2+2\cdot x+123+\frac{xyz}{\cos\alpha}$ is double fraction The corresponding code is:

$$\dot{Q}_{ss} = \sum_{\text{species } i} h_i J_{i,\text{import}} - \sum_{\text{species } i} h_i J_{i,\text{export}} = \sum_{\text{rxns } k} \Delta h_{\cdot,k} J_{\cdot,k}$$
(1.5)

The corresponding code is: