**Guide to Generating Diagrams with AI**

## Using ChatGPT or Other LLMs

You can ask ChatGPT to generate diagrams using languages such as:  
- Mermaid.js (flowcharts, Gantt, UML, ERD, etc.)  
- PlantUML (UML diagrams, sequence, class diagrams)  
- Graphviz/DOT (dependency graphs, trees)  
- TikZ (LaTeX-based academic-quality diagrams)  
  
Example prompt:  
"*Draw a flowchart to describe a user registration process using Mermaid.*"  
  
Mermaid code output:  
```mermaid  
graph TD  
 A[Start] --> B[Enter email and password]  
 B --> C{Email already exists?}  
 C -- Yes --> D[Show error message]  
 C -- No --> E[Save account info]  
 E --> F[Send verification email]  
 F --> G[Finish registration]  
```

## Popular AI Tools and Websites

Here are some useful tools for AI-based diagram generation:

|  |  |  |
| --- | --- | --- |
| Tool | Features | Website |
| Whimsical AI | Generate flowcharts from natural language | https://whimsical.com |
| Textografo | Text-to-diagram for flowcharts | https://www.textografo.com |
| Draw.io + Mermaid plugin | Manual + code-based diagramming | https://app.diagrams.net |
| Mermaid Live Editor | Edit and preview Mermaid diagrams | https://mermaid.live |

# 3. Integration in Markdown or Code Editors

You can integrate Mermaid diagrams directly into Markdown files (e.g., GitHub README, Notion, Obsidian).  
  
Example:  
```markdown  
```mermaid  
graph LR  
 User -->|Login| System  
 System --> Database  
```  
```