Bodh Features Showcase

Beautiful presentations from markdown

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KNOWLEDGE

{.columns}

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Mathematics: Inline vs Display

Inline Mathematics

We can include math like $f(x) = ax^2 + bx + c$ directly in text, or more complex expressions like $\sum_{i=1}^{n} x_i^2$.

Display Mathematics

For more prominent equations, use display mode:

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\nabla f(x, y) = \begin{bmatrix} \frac{\partial f}{\partial x} & \frac{\partial f}{\partial y} \end{bmatrix}$$

Lists and Formatting

Bullet Points

- **Bold text** for emphasis
- *Italic text* for style
- `Code snippets` inline
- Links for references

Numbered Lists

1. First important point
2. Second key concept
3. Third essential element
4. Final summary point

Code Highlighting

Python Example

```python
def gradient_descent(f, grad_f, x0, alpha=0.01):
    """Gradient descent optimization"""
    x = x0
    for i in range(1000):
        x = x - alpha * grad_f(x)
        if abs(grad_f(x)) < 1e-6:
            break
    return x
```

JavaScript Example

```javascript
function createChart(data) {
    return {
        type: 'line',
        data: data,
```

Tables and Data

Simple Table

Method	Speed	Accuracy
SGD	Fast	85%
Adam	Medium	92%
L-BFGS	Slow	96%

Complex Table

Algorithm	Time Complexity	Space	Best Use Case

Figures and Images

Simple Figure

Figure with Caption

Sized Image

Blockquotes and Callouts

> ***Important Note:*** *Gradient descent is a fundamental optimization algorithm used across machine learning, from linear regression to deep neural networks.*
>
> *"The best way to learn is by doing."*
>
> *— Anonymous*

Multiple Quote Levels

Advanced Typography

Text Styles

- **Bold emphasis**
- *Italic style*
- ~~Strikethrough text~~
- `Monospace code`
- Small caps: Small Caps Text

Special Characters

- Mathematical: α, β, γ, Δ, Σ, π, ∞
- Arrows: → ← ↑ ↓ ⟨ ⟩
- Symbols: ★ ✓ × ⚠ ℹ

Interactive Elements

Progress Indicators

- [x] Feature implementation complete
- [x] Testing and validation done
- [ ] Documentation in progress
- [ ] Final review pending

Mathematical Showcases

Matrix Operations

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix}$$

Complex Equations

$$\mathcal{L}(\theta) = \frac{1}{N} \sum_{i=1}^{N} \ell(f(x_i; \theta), y_i) + \lambda R(\theta)$$

Multi-line Equations

$$\begin{aligned} \nabla_\theta \mathcal{L} &= \frac{1}{N}\sum_{i=1}^{N} \nabla_\theta \ell

Summary

What You've Seen

- ✓ **Multi-column layouts** for organized content
- ✓ **Inline and display mathematics** with LaTeX
- ✓ **Various list types** and formatting options
- ✓ **Code highlighting** for multiple languages
- ✓ **Tables** for data presentation
- ✓ **Images and figures** with flexible sizing
- ✓ **Typography** and special characters

Ready for Real Content

Now let's see these features in action with a complete example: **Gradient Descent Tutorial**