[The **lazy loading design pattern** delays the initialization of an object until it is actually needed, preserving simplicity of usage and improving performance1](https://www.geeksforgeeks.org/lazy-loading-design-pattern/). Here are some free resources to learn more about it:

1. [**GeeksforGeeks**: Provides an explanation of the lazy loading design pattern along with examples in Java1](https://www.geeksforgeeks.org/lazy-loading-design-pattern/).
2. [**Patterns.dev**: Offers various design patterns, including lazy initialization, with a focus on plain JavaScript and Node.js](https://www.geeksforgeeks.org/lazy-loading-design-pattern/)[2](https://www.patterns.dev/).
3. [**Java Design Patterns**: Covers lazy initialization in Java and its impact on application performance](https://www.geeksforgeeks.org/lazy-loading-design-pattern/)[3](https://www.javadesignpatterns.com/blog/2023-11-28-lazy-initialization-pattern-in-java/).
4. [**Automate The Planet**: Discusses lazy loading design pattern in the context of automated testing](https://www.geeksforgeeks.org/lazy-loading-design-pattern/)[4](https://www.automatetheplanet.com/lazy-loading-design-pattern/).
5. [**Smart Coder Career**: Explores lazy initialization in Python for web developers](https://www.geeksforgeeks.org/lazy-loading-design-pattern/)[5](https://smartcodercareer.com/blog/lazy-initialization-design-pattern-python-for-web-developers/).

Feel free to explore these resources to deepen your understanding of this pattern! 🚀