

# CE100 Algorithms and Programming II

## Week-13 (Symmetric and Asymmetric Encryption)

Spring Semester, 2021-2022

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# Symmetric and Asymmetric Encryption

## Outline

- Symmetric Encryption Algorithms
- AES
- <https://formaestudio.com/portfolio/aes-animation/>
- DES
- <http://desalgorithm.yolasite.com/>
- TDES
- [https://en.wikipedia.org/wiki/Triple\\_DES](https://en.wikipedia.org/wiki/Triple_DES)

- Symmetric Encryption Modes
- [https://en.wikipedia.org/wiki/Block\\_cipher\\_mode\\_of\\_operation](https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation)
  - ECB
  - CBC
  - Asymmetric Encryption
  - Key Pairs (Public-Private Key Pairs)
  - Signature Generation and Validation

# References

TODO