

CE205 Data Structures

Week-1

Course Plan and Communication, Course Plan and Communication,
Introduction to Linear & Non-Linear Data Structure and Performance
Analysis, Implementing Pointer and Objects for Data and Variables Basic of
ASN.1 / BER TLV / PER TLV

Download [DOC](#), [SLIDE](#), [PPTX](#)

<iframe width=700, height=500 frameBorder=0 src="../ce205-week-1-
intro.md_slide.html"> </iframe>

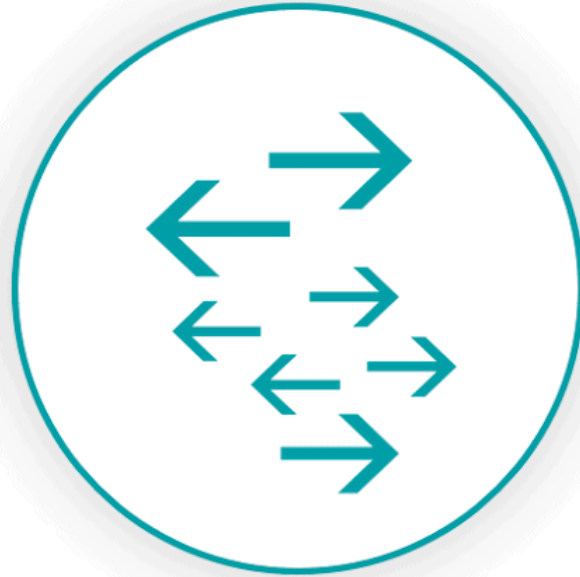
Introduction to Data Structures

THE THREE STATES OF DATA

AT REST



IN TRANSIT



IN USE



Data-in-use

- [Data in use - Wikipedia](#)

Data-in-transit

- [Data in transit - Wikipedia](#)

Data-at-rest

- [Data at rest - Wikipedia](#)

Performance Analysis

- [Data Structures Tutorials - Performance Analysis with examples](#)

Space Complexity

- [Data Structures Tutorials - Space Complexity with examples](#)

Time Complexity

- [Data Structures Tutorials - Time Complexity with examples](#)

Data and Variables

- C++ Data Types

Linear & Non-Linear Data Structures

- Data Structures Tutorials - Linear and Non-linear types
- Data Structure and Types

Implementing Pointer and Objects

- Check [CS50 Pointer Notes](../files/CS50 Modified.pdf)
- [Week 0 - CS50](#)

- ASN.1 / BER TLV / PER TLV
 - <http://lionet.info/asn1c/download.html>
 - GitHub - ucoruh/asn1c-wsl-sample: ASN.1 C WSL and Windows Execution, Debugging and Code Generation Sample

- Sample Standard for ASN.1 Usage
 - https://www.etsi.org/deliver/etsi_ts/125400_125499/125413/04.09.00_60/ts_125413v040900p.pdf

- Payment BER TLV Parser Sample
 - TLV Utilities
 - <https://paymentcardtools.com/>

Week-1 End

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