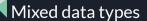# Introduction to R

Module 07-01, Lists Introduction and Creation

Billy Fetzner

Lists

Vectors

- Mixed data types

- Double-linked sequence

- Forward & backward transversal

- Non-contiguous memory

- Extra space needed for the node which holds relational information

- Insertion is cheap

- Iterators are valid if components are added or removed

-1 dimensional object

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- One type of data

- Coerce data to most flexible data type

- Dynamic array

- Contiguous memory

- Accessed and traversed using iterators

- Synchronized

- Insertion costly except at end

- Thread-safe

- Random access to components