Indexed Collection:

Indexed Collections are collections that have numeric indices, meaning data are ordered by an index value.

1. Arrays

2. Ryped Amays =

Is typed arrays are pretty array-like objects that provide a mechanism for reading and writing raw binary data in memory buffers.

for the purpose of temporarily storing data. It essentially, is a contiquous block of memory where we can read from or write to binary data.

Typed arrays are useful when interacting with platform features, such as audio and video manipulation, acress to raw data using websockets, and so forth:

fach entry in TS-typed arrays is a raw binary value in one of number of supported formats, from 8-bit integers to 64-bit swating-point numbers.

Implementation is split into buffers and views. A buffer is an object representing a chunk of data, with no formal and no mechanism, for accessing contents. A view is used to access the memory contained in a buffer. A view provides a context - that is, a data type, starting offset, and number of elements.

	ushen the TC engi	ing scans a script file. It	makes an envir	ormero	
twhen the TS engine scans a script file. If makes an environment called the Execution Context that handles the entire transformation and execution of the code!					
	Buffery -				
	Times are A	Types are Array Buffer and Shared Array Buffer. They are generic objects that just contain raw data. Supported actions: a) Allorate - a new memory span with 0 is initialised, as soon			
	objects that in	objects that just contain raw data. Supported actions:			
	a) Allocate - a new memory span with o is initialised as soon				
	dy II. December 1	as a new buffer is created.			
b	b) Copy - 1	b) Copy - Array's slice() method can be used to copy a portion of memory.			
h	/- []	portion of memory.			
•					
9	c) Transfer - Using the fransfer(s and transfer To Fixed Length () methods				
9	you can transfer the ownership of the memory span to				
2	a new buffer object. After the transfer the original				
3	buffer is no longer useful or usable. A sharettmay bu-				
3	ffer cannot be transferred because it already is				
3	shared by all execution context.				
7	n 0. v		. 5		
N. T.	a) Kenze - Using the resize() method, you can resize the memory				
3		span teither dam more space, as dong as it doesky			
3		d) Resize - Using the resize() method, you can resize the memory span (either claim more space, as dong as it doesn't pas the pre-set maxbyte-length limit, or release			
3		some memory space).			
3	Viens-				
3	Those are turn	times of views: timed o	Shau Moule an	d Dotalia	
3	There are two types of views: typed array views and Data View. Typed arrays provides whitity methods that allow you to conveniently fransform binary data. Data View is more dow-level and allows				
3	transform by	fransform binary data. Dataview is more your level and alle			
3	granular co	granular control of how data is accessed.			
3	0.00	· ·			
3	Type	Value Range	Sizerin bytes	Web DI Typ	
9	Int 8 Array	-128 to 127	1	byte	
3	Vinta Amay	0 to 255	1	octet	
9	Vint & Clamped Array	o to 255	1	octed	
-	Int 16 Amay	-32768 to 82767	2	short	
-	Vint 16 Array	0 6 65 535	2	unsigned show	
-	Ent 32 Array	-2147483648 to 2147483647	4	Long	
1	Urnt 32 Array	0 to 4294967295	4	unionia	
1	Float 32 Array	-3.4e38 to 3.4e38	4	unrestricted stead	
1	Flood 64 Array	-1.8e308 to 1.8e308	8	Autoral HOLECH W	
1	BigInt 64 Array	-263 to $263-1$ 0 to $264-1$	8	biging biging	
	Big Vint 64 Array	0 to 264-1	8	bight4	
10.000	0				