

Set : Unique Values

Enums: uniques

Hashing:

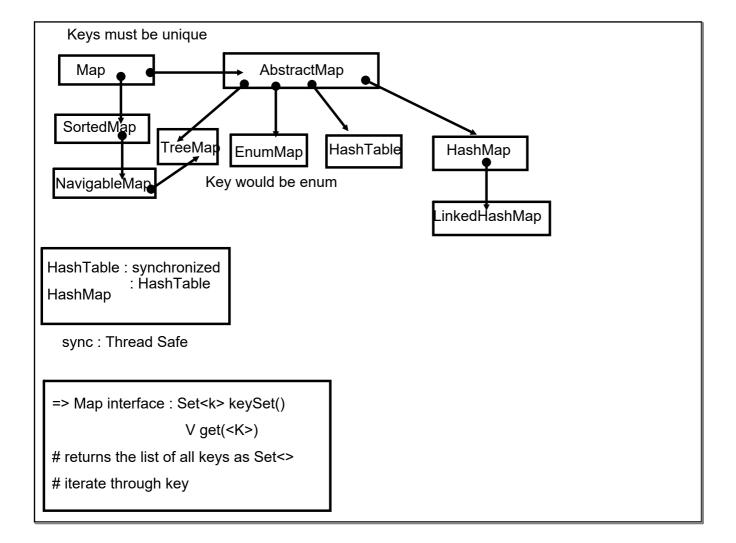
HashSet : Table Hashing

LinkedHashSet: Linked Hashing

SortedSet: maintain data in sorted

NavigableSet : Quick Navigation functionalities

Red-Black Tree



Algorithm Classes

- 1. Arrays.
- 2. Collections.
- @ Provide common functionalities can be applied on Array int [] and Collection

Collections.concurrentList(); // Thread safe equivalent

4.....

Java - 8

Functional-Programming

- # functional interface
- # default methods
- # static methods
- # lambdas
- # streams
- # methods references

DateTime API

Optional

Nashorn engine (javascript engine)

Extension in collection API

Traditional :(Pure OOPs) : Imperative

Functional: Declarative

Imperative:

How: focus
Pure OOPs

Embraces data mutability

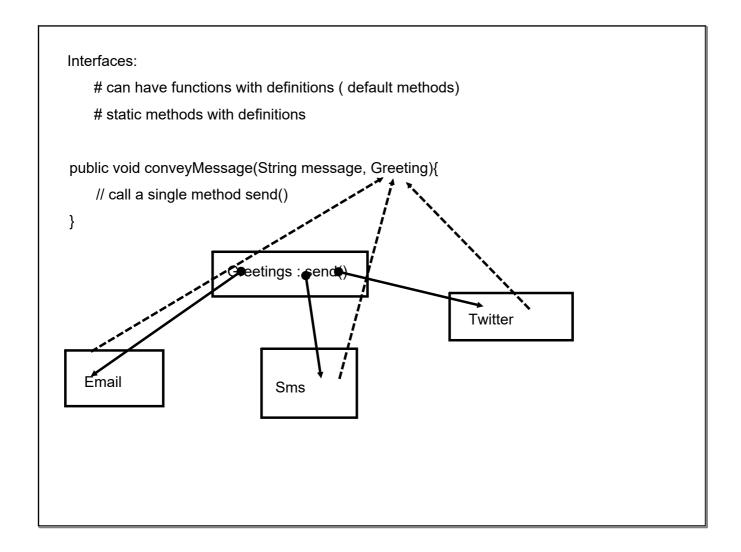
Declarative

What : focus

Functional Programming (pure function)

Data immutabilty

SQL style



```
LAmbda Syntax for pure function
1. not have any accessiblity modifier (nothing related to class)
2. Do not any name (anonymous function)
3. no return type
4. no param type
5. (<param>) -> { <definition>}
void fun(String str1, int n){
(str1,n) -> {
}
void fun(String str1){
}
str1 -> {
}
void fun(){
() -> {
void fun(String str1){
    // only single instruction
}
str1 -> single instruction
void fun(String str1){
    // instruction
    return a;
}
str1 -> {
    // instruction
    return a;
}
int add(int a, int b){
return a+b;
// for single inst not bounded in braces return is default associated
(a, b) -> a+b;
```