

#####

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*/

```
public interface Codec<T> {  
    T decode(BitBuffer buffer, Resolver resolver, Builder builder)  
        throws DecodingException;  
  
    int getSize(Resolver resolver);  
  
    Expression<Integer, Resolver> getSize();  
  
    CodecDescriptor getCodecDescriptor();  
  
    Class<?>[] getTypes();  
  
    Class<?> getType();  
}
```

decode(BitBuffer, Resolver, Builder) ## #####
BitBuffer ##### #T.

Resolver ##### Codec ## #####.

#####¹.
#####.

#####.

#####.

#####.

Codecs #####.

¹ #####.

#####

#####

2. CodecFactory

#####

#####null.

#####

2.

/**

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*/

```
public interface CodecFactory {  
    <T> Codec<T> create(AnnotatedElement metadata,  
        Class<T> type,  
        ResolverContext context);  
}
```


#####

#####²

² #####


```
#####  #####  #####  try ## #####  #####  ##  ##. ## #####  #####  ##  #####  #####  ##  #####  
# #####  #####.
```

[illegible]

```
#####  
#####  
#####  
#####  
#####  
#####
```


#####.
#####,
#####.) #####:
#####.

— ##### — ##### #####. #####
#####, ##### ##### ##### ##### ##### ##### ##### ##### ##### #####.#####
#####, ##### ##### #####. #####
#####, #####, #####, ##### ##### ##### ##### #####.

```
#####  
#####  
#####.##,###  
#####,###:
```

- `null ## #####; # ## #####;`
- `## ##### ##### ## #####; # ## #####;`
- `## ##### ##### ## #####; # ## #####.`

```
### null ### ## ## ##### ## ##. ## ##### ##### ## ##### ## ##. ##
##### ## ## ## ##### ## # ##### ## ## ##### ## ## ## ## ## ##, ##### ##
##### ## ## ## ##### ##. ## ##### ##### ##### ## ## ## ## ## ## ## do ##### #
##### ## ## #####, ## ## ##### ## ## #####.
```

6

#####

- ### ##### 4 ##### # #####.
- ### ##### ##### ##### ##### ##### ## 32-### #####.
- ### ##### 32-### ##### ##### ## # #####.

[illegible]

- ##### # ##### # ##### ##### ##### null # ##### # ##### #.
- ...##### ##### # ##### ##### # ##### ##### #, ##### # ##### ##### # # #####
#####.

2.3. BooleanCodecFactory

[illegible]

2.4. ObjectCodecFactory

```
## #####, ## ##### ##### ##### ##### ## ##### ##### ## #####, ## ##### # #####. #####,
##### ## ##### ##### ##### ## ## #####. ## ##### ##### ##### ## #####
##### ## ##### ##### ## ## ##. ## ##### ##### ## ##### ## ##### ## #####,
## ##### ## # ##### ##### ##### ## ##### ## ## ##### ## ##### ##### ## #####, ##
##### ## ## ##### ##### ## ## #####.
```

```
### ### ##: ### ##### ## ## ## ## #####. ### #####. ### ##
### ##.
```


#####

```
### ##### # ## ### #### #.##### # ## #  
##### # ##### # ## #:
```

- [illegible]

```
### ## ##### ##### ### ## ##### ##### # ##### ## ## ##### ##,
##### 2. ## ##### # #####: ## ## # #####. ## ## ## ##### ##### ##
```


#####,
#####.
#####.

2.5. ListCodecFactory

```
#####  
#####  
#####  
#####  
#####
```

4. ##### #

3. Binding

#####. #####:

- ## ### ##### ## #### ## ##### #### 400, #### #### #### #####, #####
#####.

- ## ### ##### ## #### # 1, ##### 7 #### ## ##### ## # # ####; ##### ##### ## #### 7 + 8
#####.

#####/##### ##### #####. ##### ## ##### ## ##### ##, ## ## ## ## ##
##—##### ## ## ## ##### ##.

```
#####  
#####  
#####
```

```
### ##### ## ##### ## ##### #### ##### ##### ## ##### ## #### ##### # Binding ###
## ##### ## ##### ##### ## ## ##### ## ## ##### #####. ##### ## ## ## #####
##### ## #### ## ##### ## ##### #### ## ##### ##### ##### ##### ##### ## ##
##### ##.
```

4. CodecDecorator

```
## ## ## ##, ## ##### #### # ##### ## ##### #####. ##### ## ##### ## always
##### ## #####. ## ## ## ##### ## ##### ## ## ##, ## ## ##
##### ## ## ## ## ## ##, ##### ## ## ##### ## #####.
```

#####, *#### also #####*

4.1. LazyLoadingCodecDecorator

 — # ##### # — ## *not* #####; #####, ## ####
 ##### # ##### # ##### # ##### # ##### # *actual*
 ##### # ##### # ##### # ##### # ##### # ##### #
 ##### #.

```
##### ## ##### ## ##### ## ##### ##### ## #####
##### ## ##### #####.
```

4.2. SlicingCodecDecorator

#####

[illegible]

#####

#####