

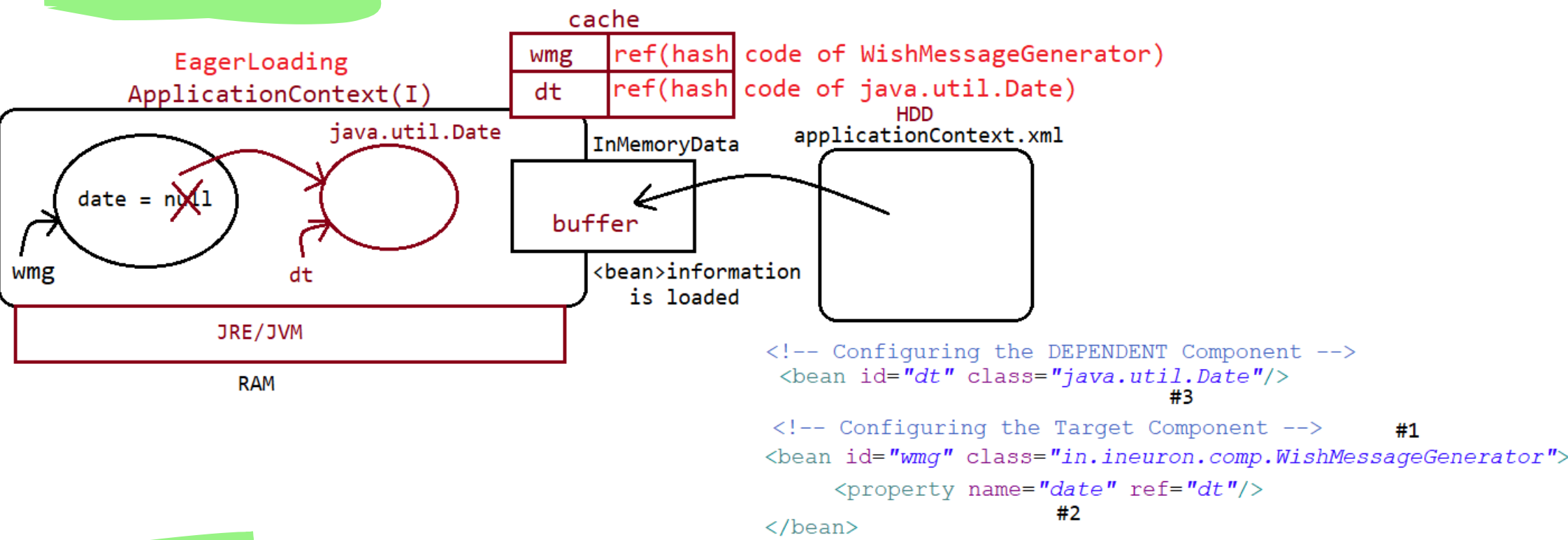
Behind the scenes

1. Object obj = factory.getBean("wmg");
- Container will check the internal cache for the bean with the id "wmg".
- ```
Class c =Class.forName("in.ineuron.comp.WishMessageGenerator");
WishMessageGenerator wmg = (WishMessageGenerator) c.newInstance();
```
- \*\*Container will keep the ref(wmg) in the cache and the object reference as the value in the cache.
- Container will check in the internal cache for the bean with the id "dt".
- ```
Class c1 =Class.forName("java.util.Date");
Date dt =(Date)c1.newInstance();
```
- \*\* Container will keep the ref(dt) in the cache and the object reference as the value in the cache.
- Because of <property name="date" ref="dt"/>
- container will setDate(dt) on the wmg object as shown below
- ```
wmg.setDate(dt);
```

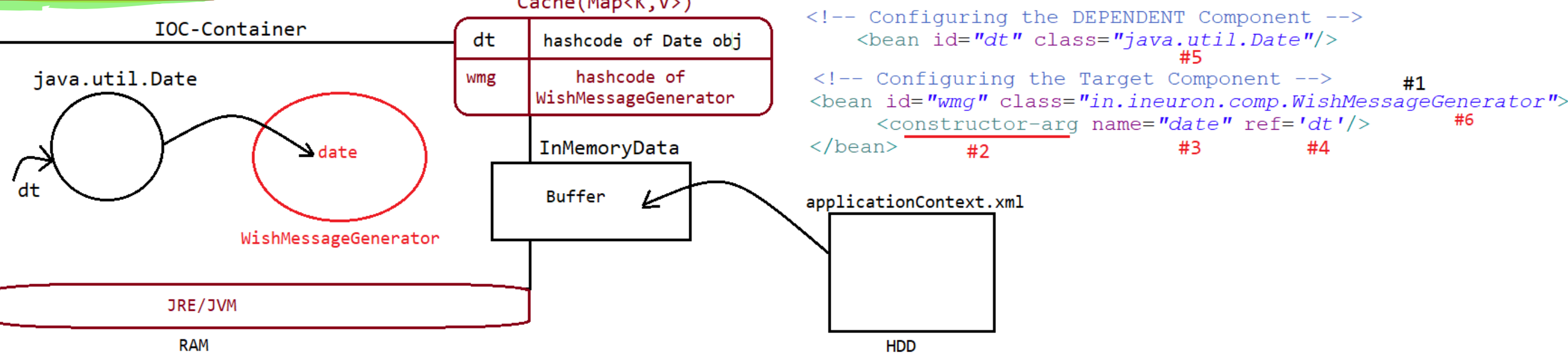
Note: Default scope of all the beans in IOC-container is "Singleton".

2. Since the programm in running with the help of main(), when the main() finishes the execution
- => Automatically container will be closed,due to which the internal cache, objects and InMemory data will be flushed from JVM area.
- => Finally JVM also will be cleaned from JRE region.

ApplicationContext(I)



ConstructorInjection



Behind the scenes

1. Object obj = factory.getBean("wmg");
- Container will check the internal cache for the bean with the id "wmg".
- since it is not available,container will also see how the bean has to be created.
- if it is through <constructor-arg> then container will check what is the bean id of the referenced object.
- ```
<constructor-arg name='date' ref='dt'/>
```
2. Since the injection is of <constructor-arg> container will create an object of depedent class for the bean id "dt".
- ```
<bean id ="dt" class="java.util.Date"/>
```
- Date dt =(Date)Class.forName("java.util.Date").newInstance();
- The "dt" reference will be kept in the internal cache of IOC-cotnainer for future usage.
3. Now the container will create an object of Target class by using Dependant object through constructor injection.
- ```
<bean id="wmg" class="in.ineuron.comp.WishMessageGenerator">
  <constructor-arg name="date" ref="dt"/>
</bean>
```

