

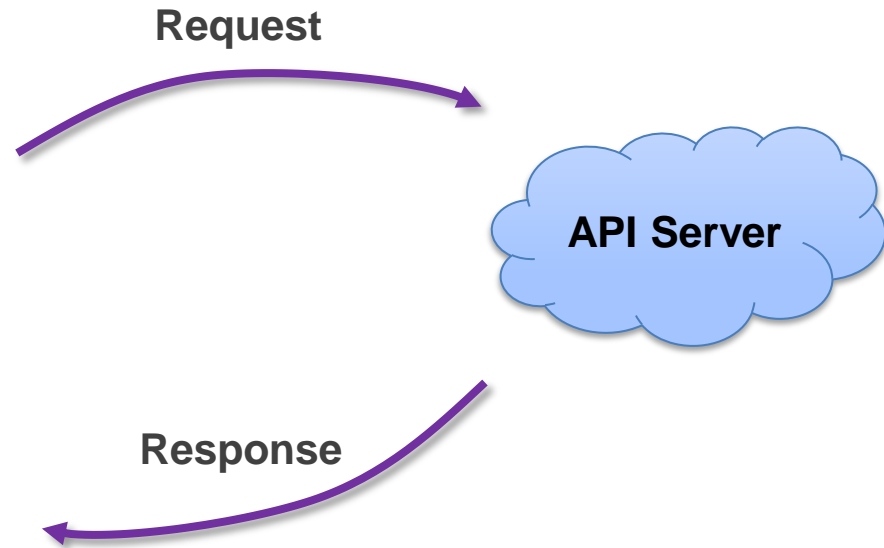
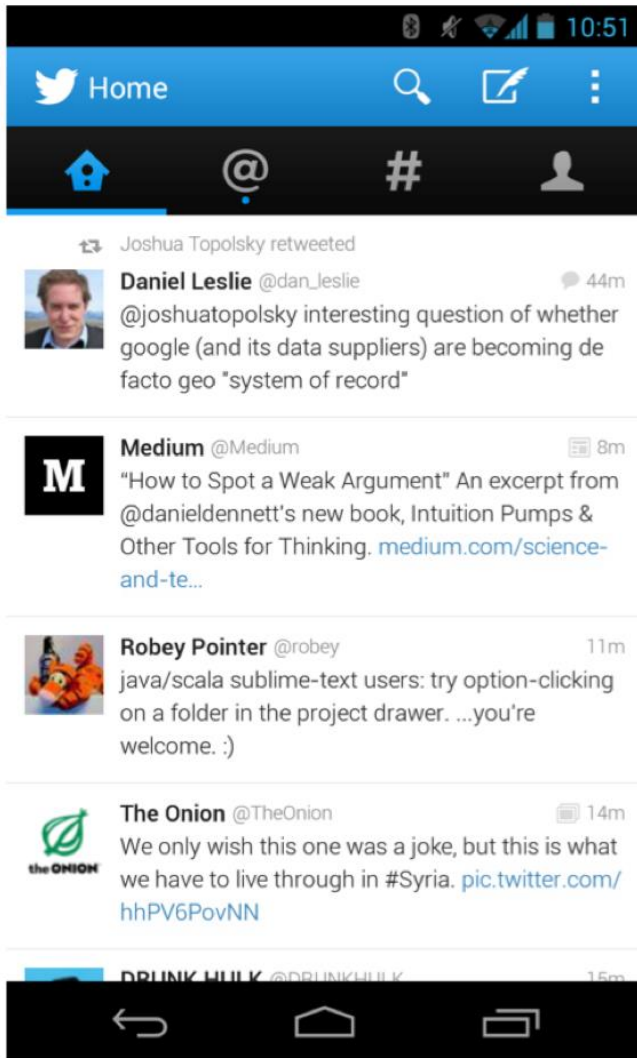


4/4 Featured Sessions,  
Kandroid S/W Fundamentals Study Group

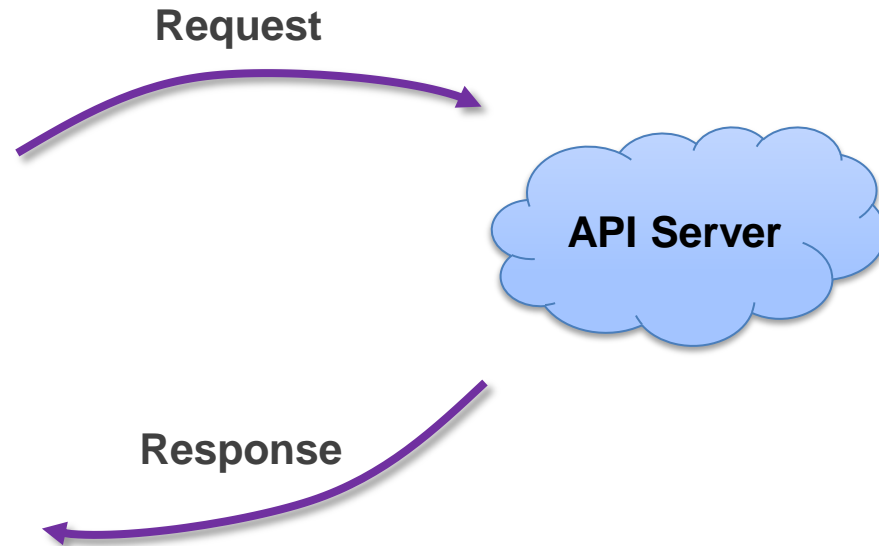
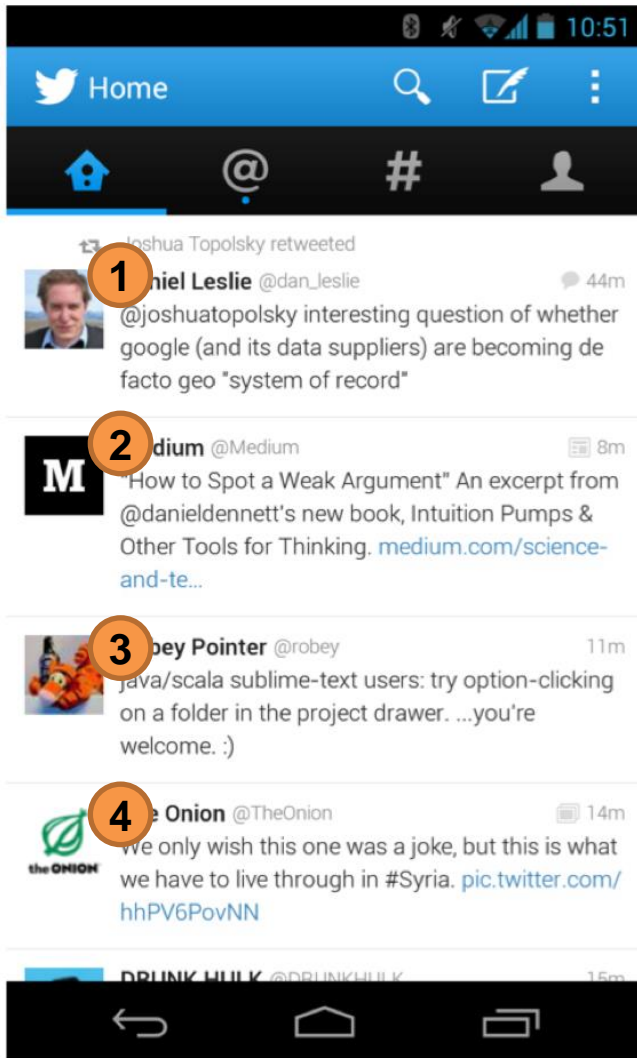
## A Volley-based Fast Networking Framework

홍수영(soo@hasapp.com)

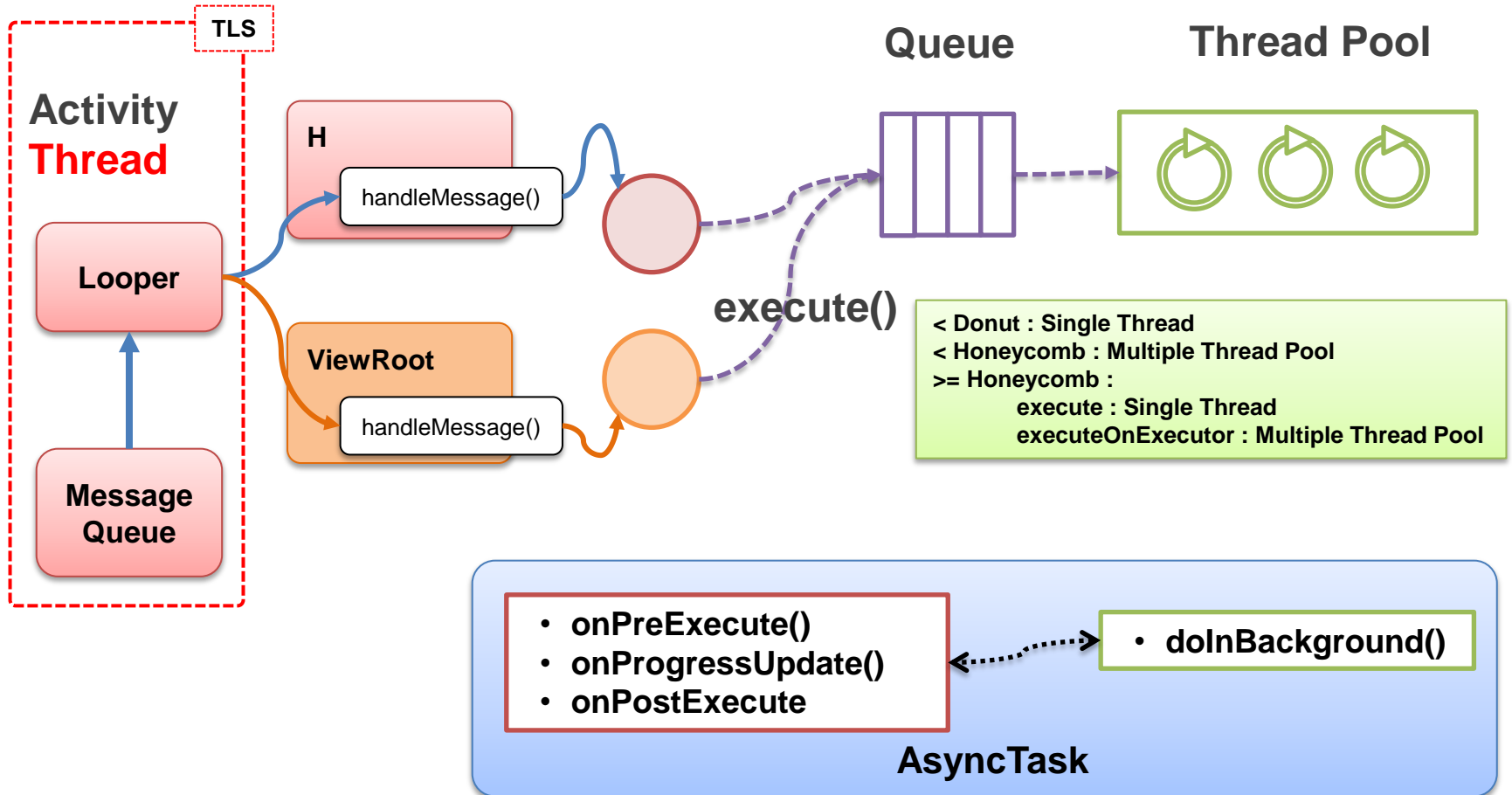
# Example



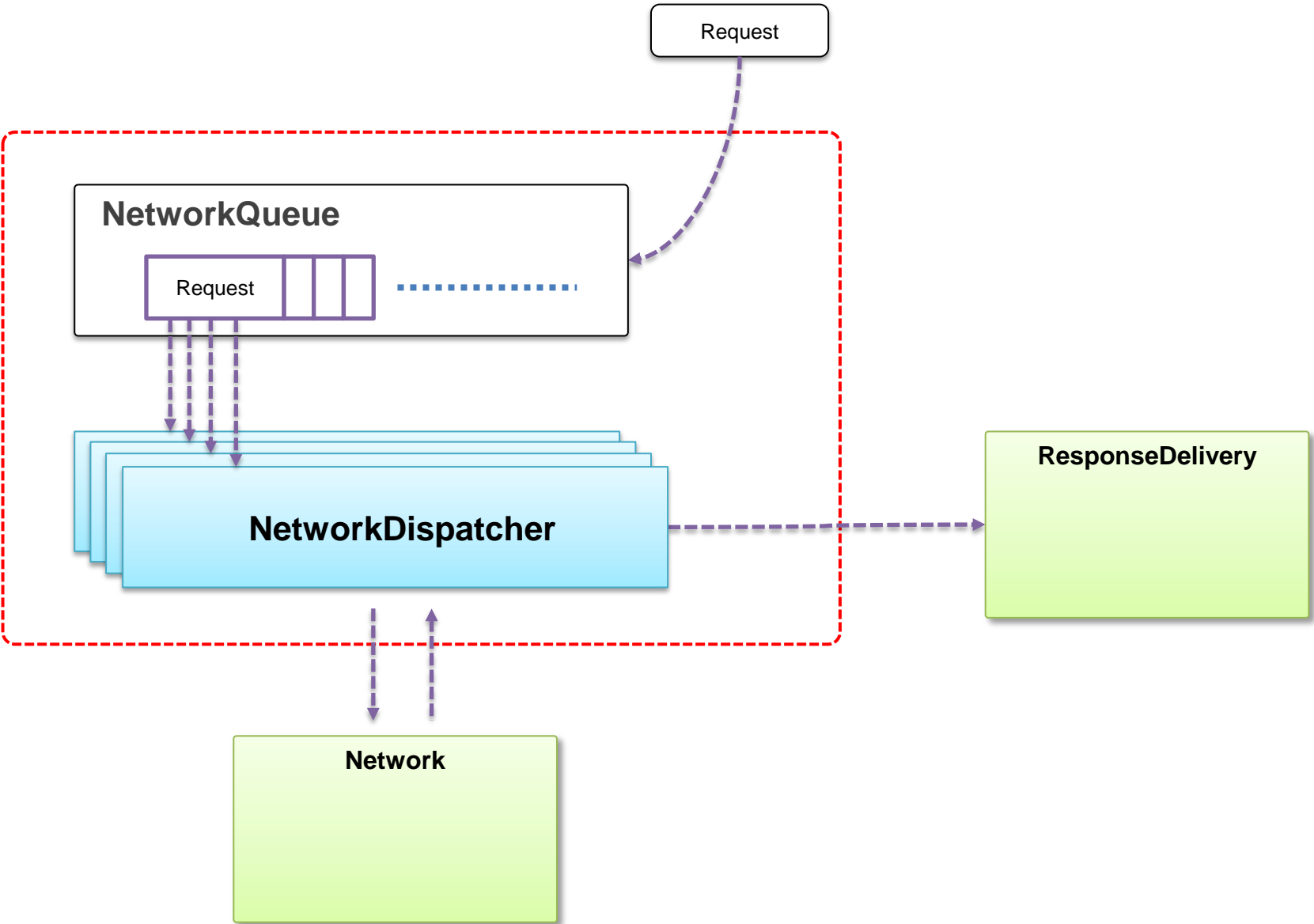
# Problem : All network requests happen serially



# AsyncTask

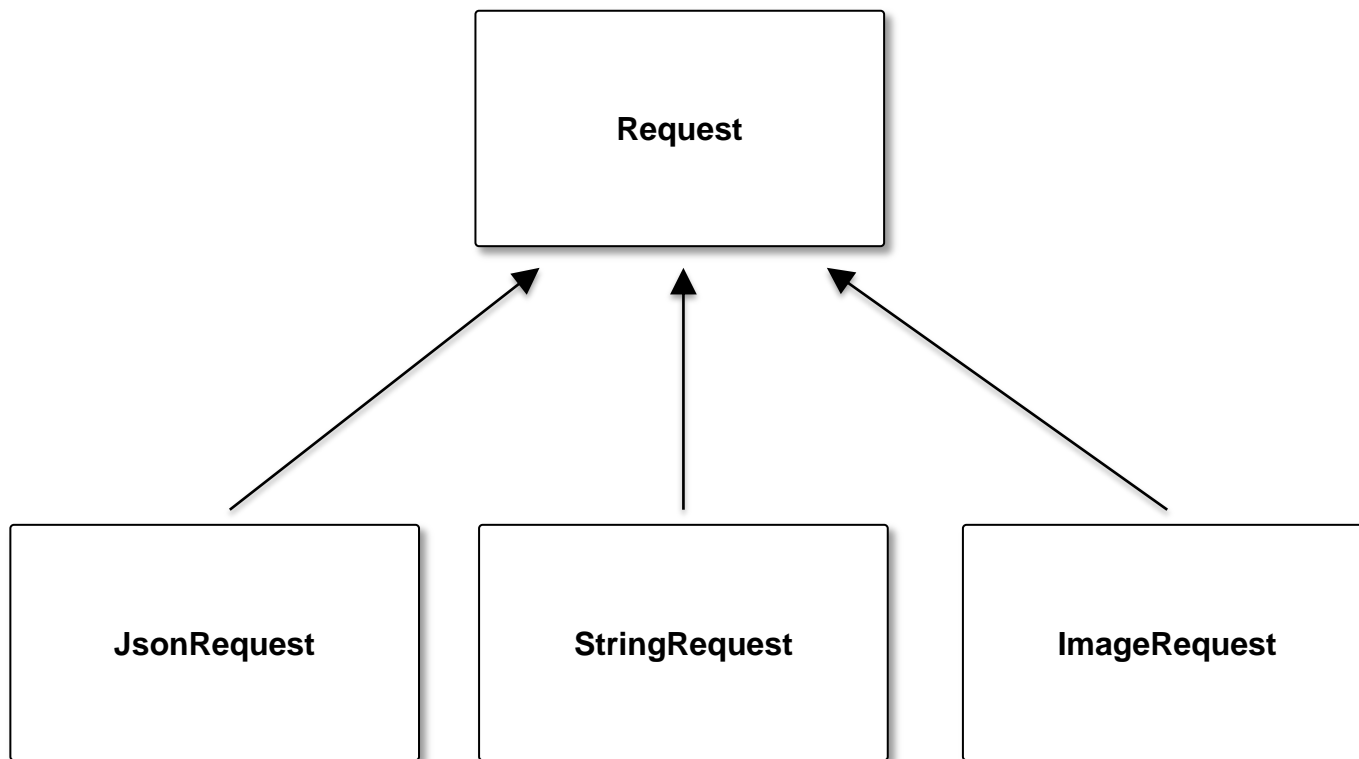


# Volley - Network Dispatcher

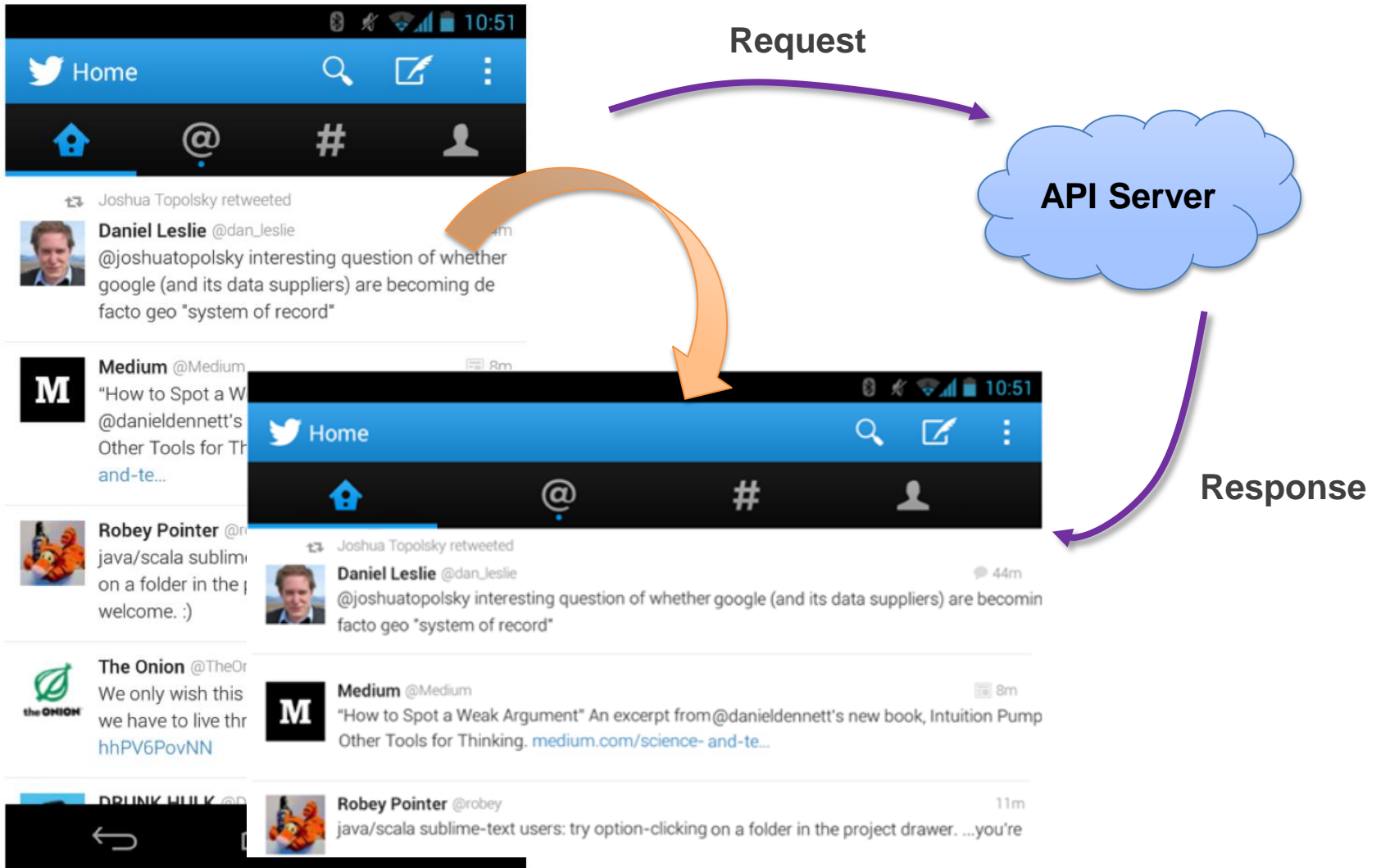


# Volley - Abstract Request

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# Problem : Rotating the screen will reload everything from the network



# Save Instance

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## - ***onSaveInstanceState(Bundle outState)***

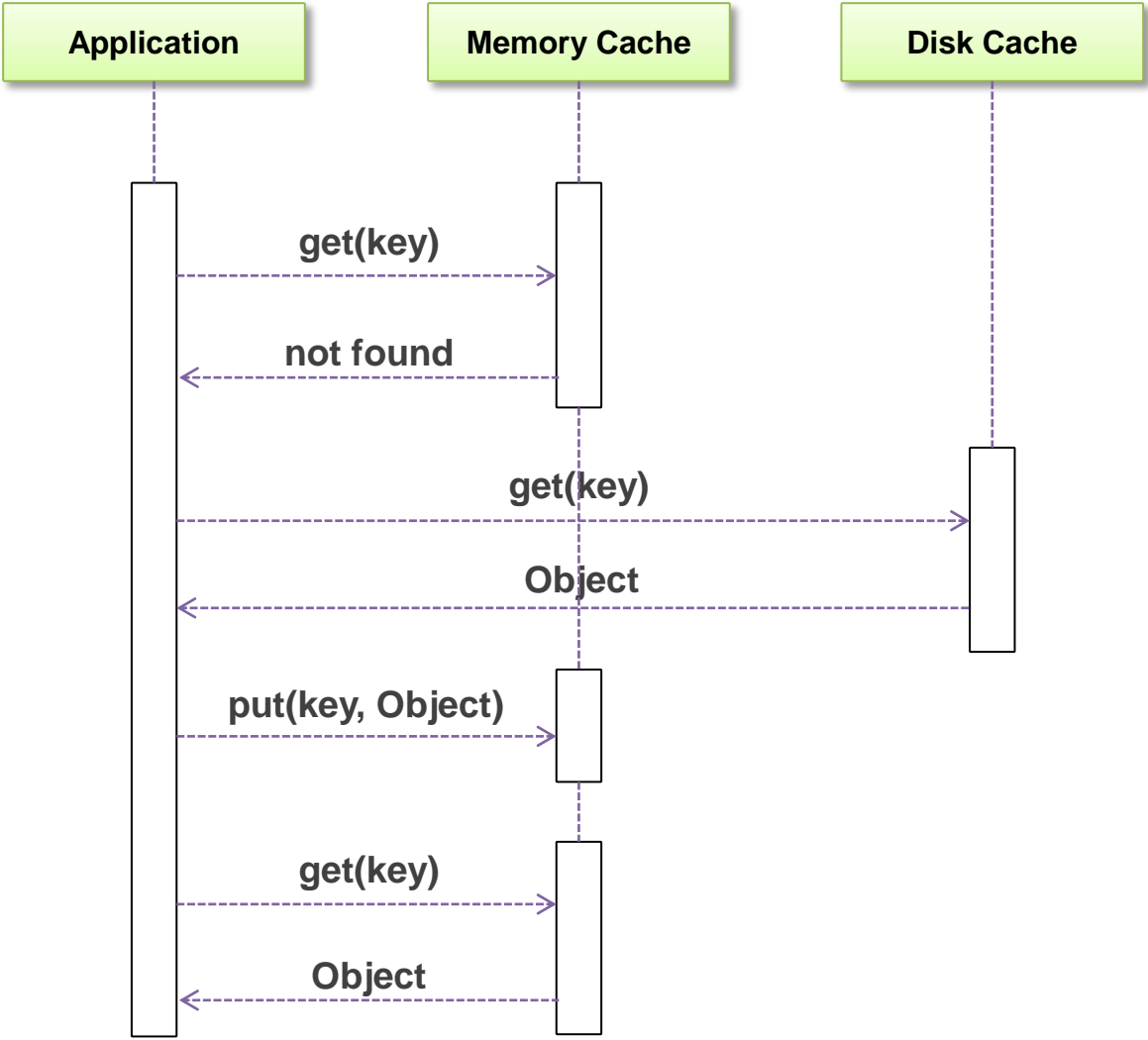
Called to retrieve per-instance state from an activity before being killed so that the state can be restored in **onCreate(Bundle)** or ***onRestoreInstanceState(Bundle)***

## - ***onRetainNonConfigurationInstance ()***

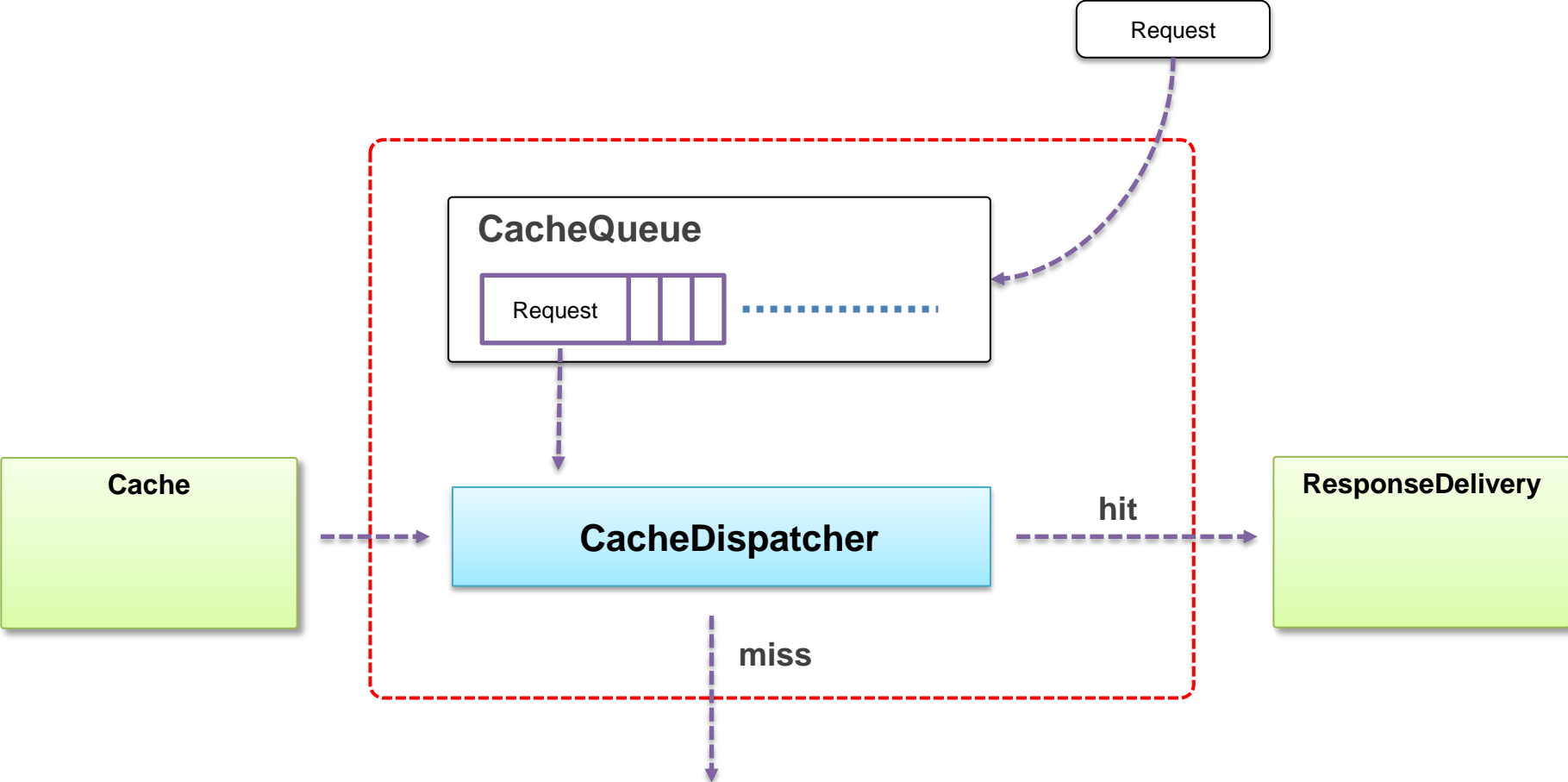
*You can return any object you like here, including the activity instance itself, which can later be retrieved by calling **getLastNonConfigurationInstance()** in the new activity instance. (This method was deprecated in API level 13.)*



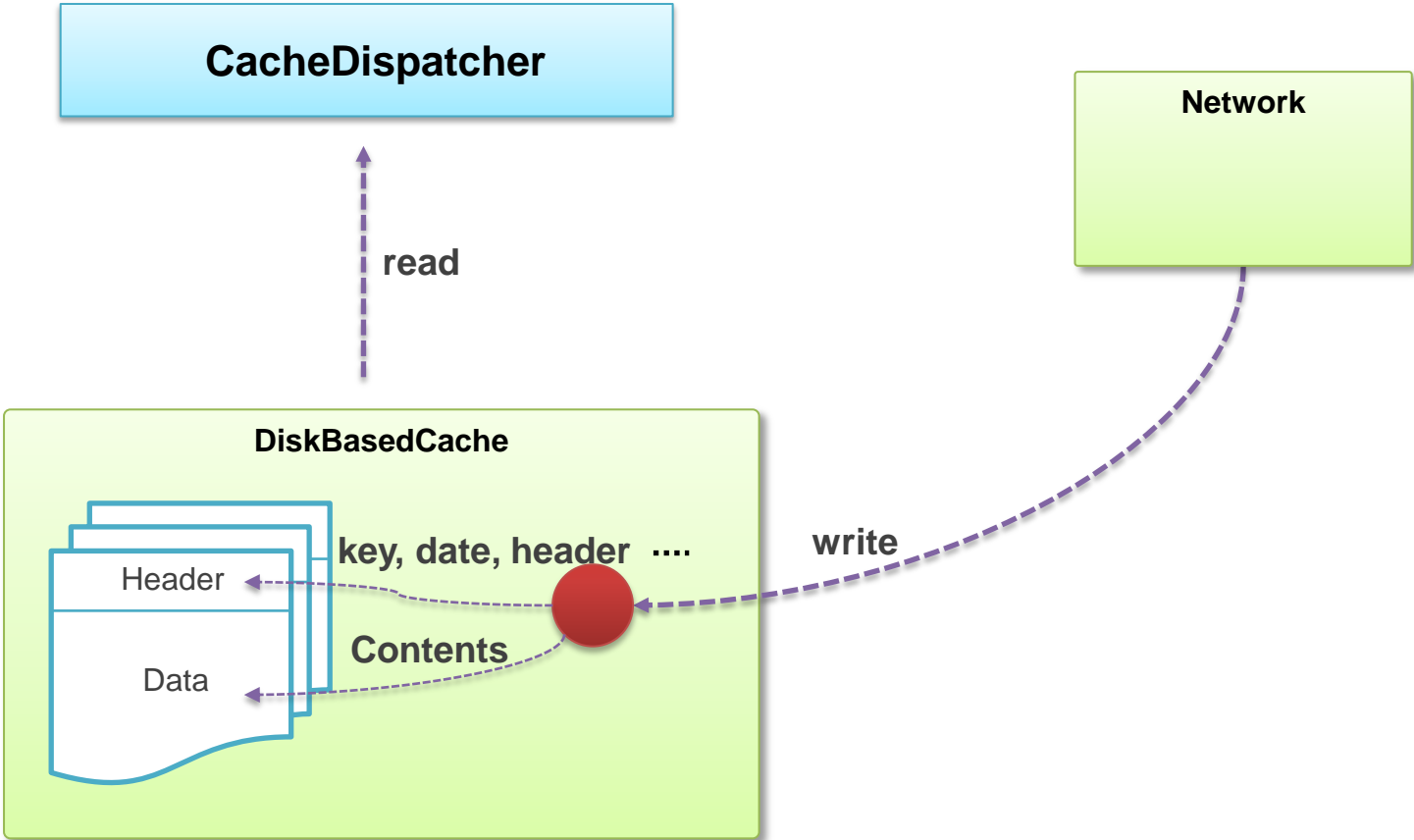
# Cache Use Scenarios



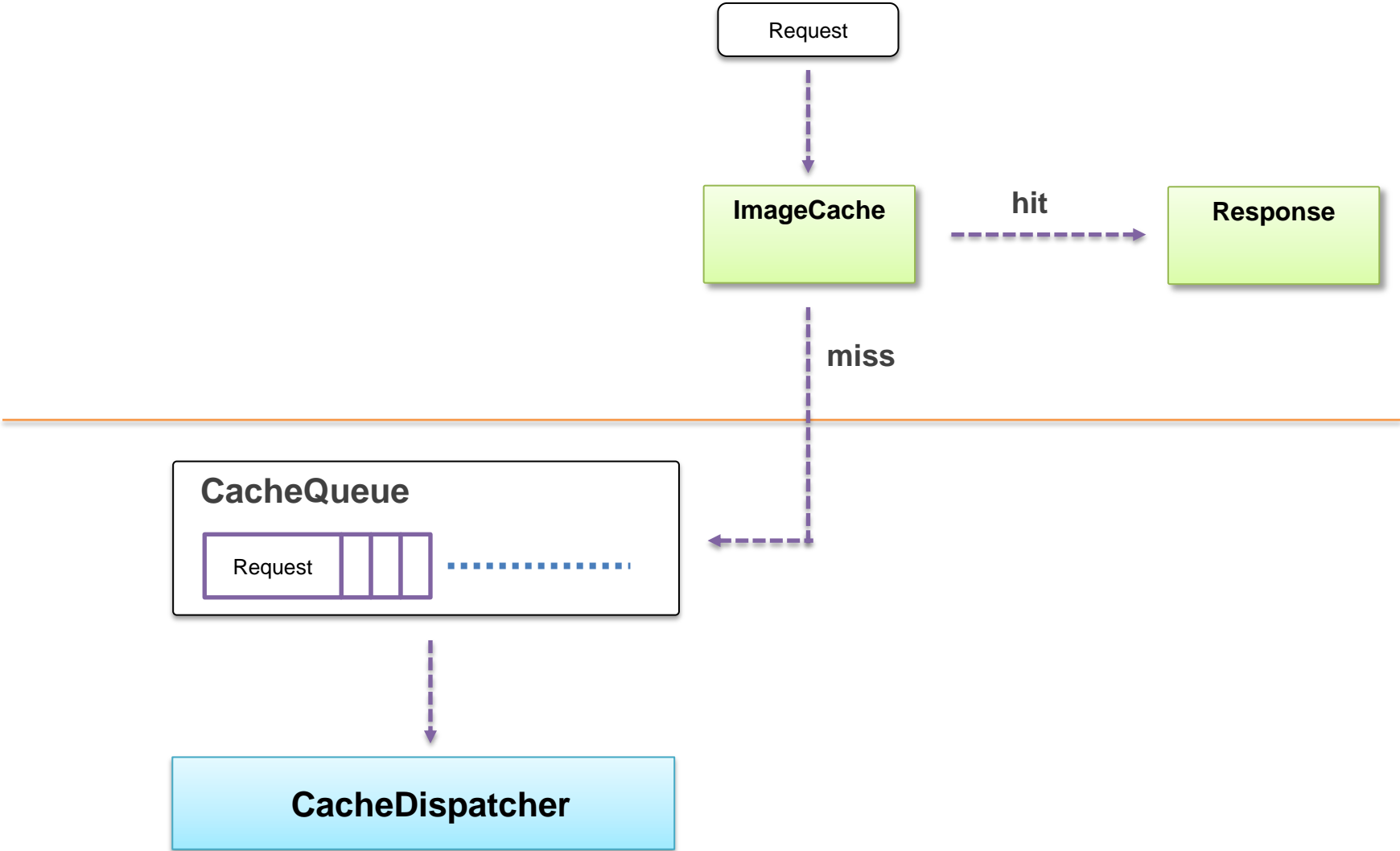
# Volley - Cache Dispatcher



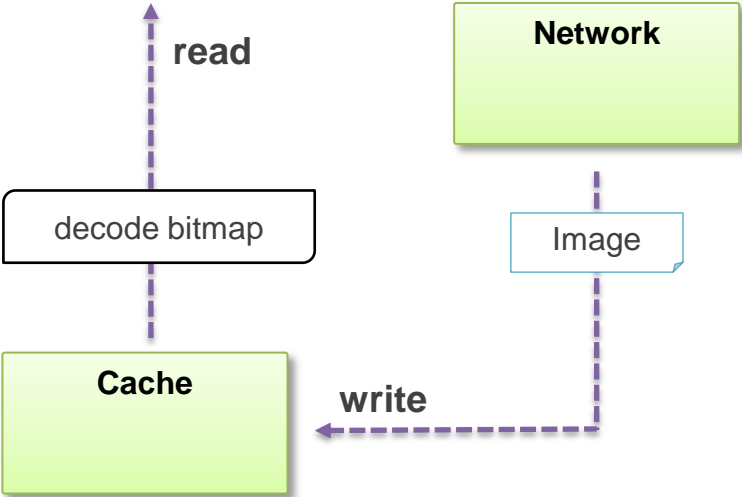
# Volley - Disk Cache



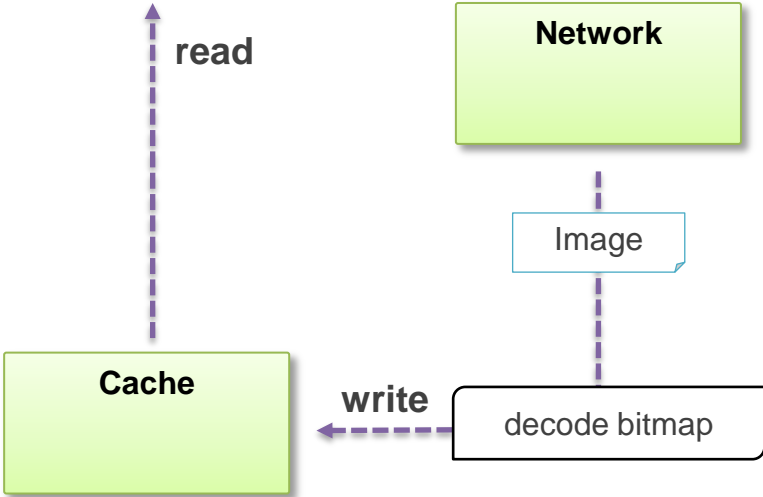
# Volley - Memory Cache



# Volley - Decoding Point

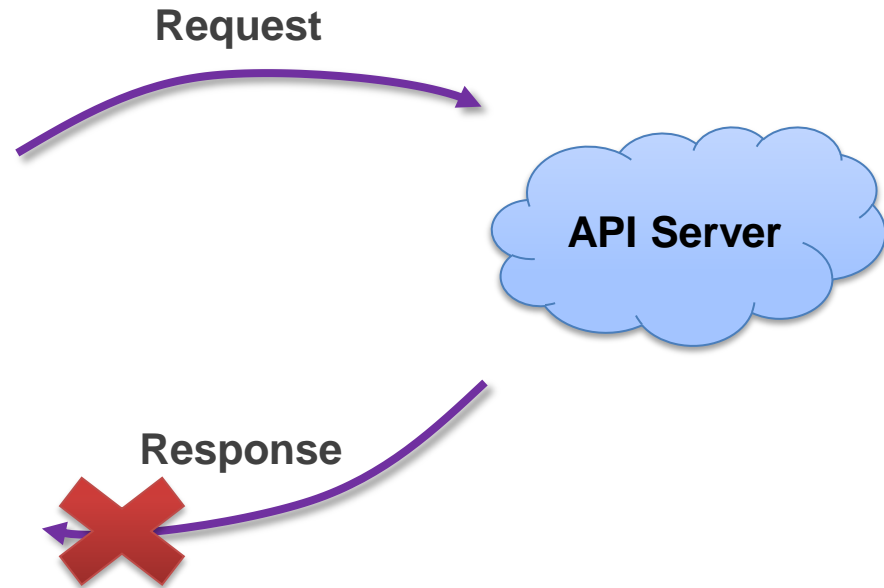
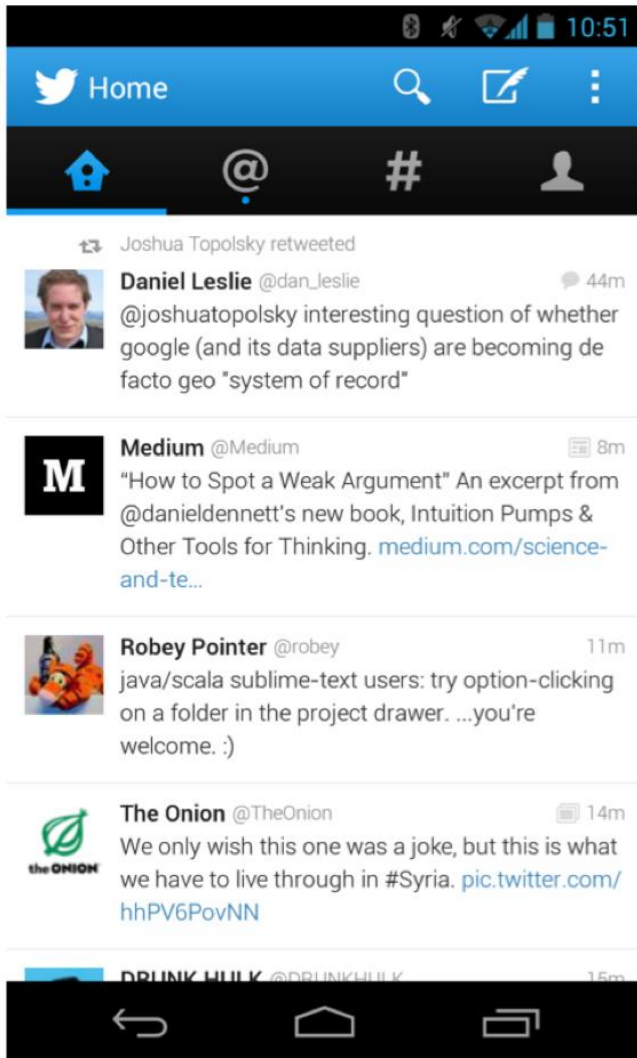


Case 1



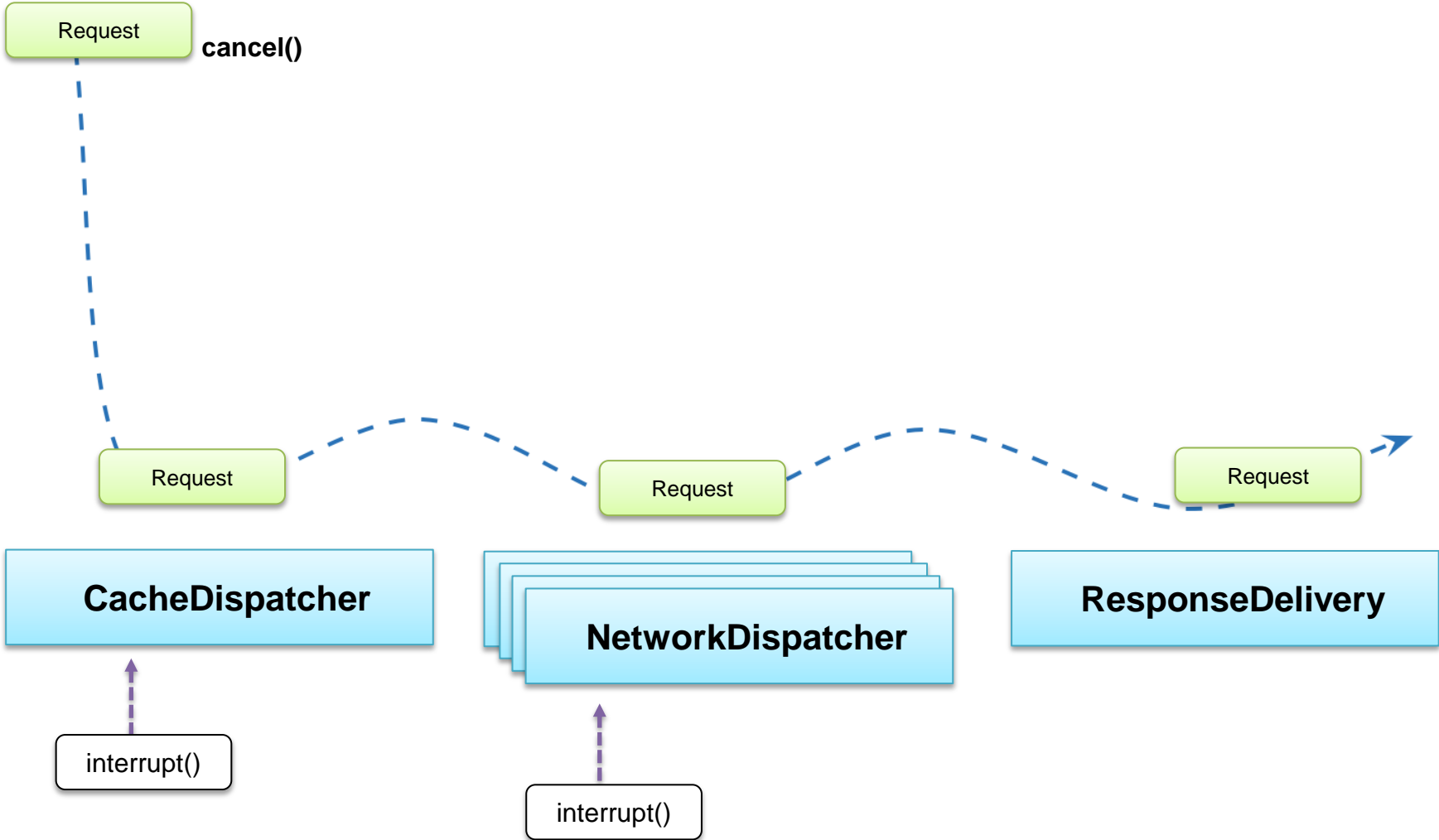
Case 2

# Problem : AsyncTasks stomp on recycled views



```
@Override
public void onPostExecute(Result r) {
    if (getActivity() == null) {
        return;
    }
}
```

# Volley - Request cancellation



## Problem : **Compatibility problems on Froyo**

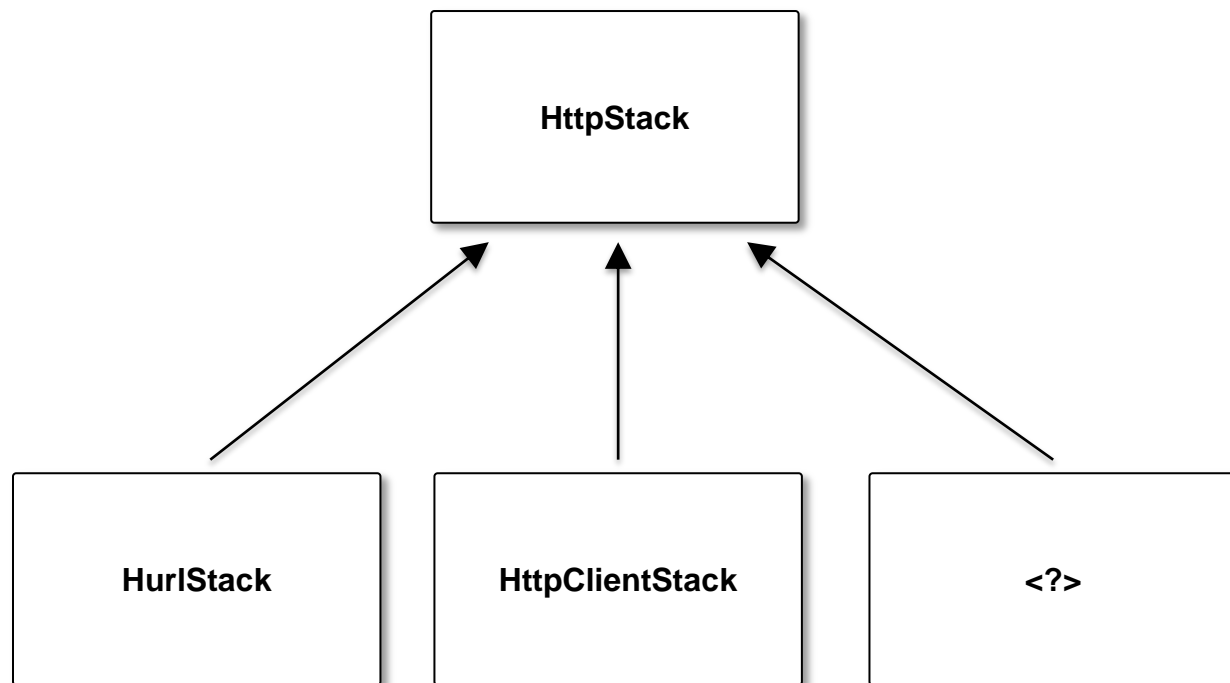
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- ***HTTP URL connection was buggy. So you could use Apache HTTP client, but that's also buggy and no longer supported.***

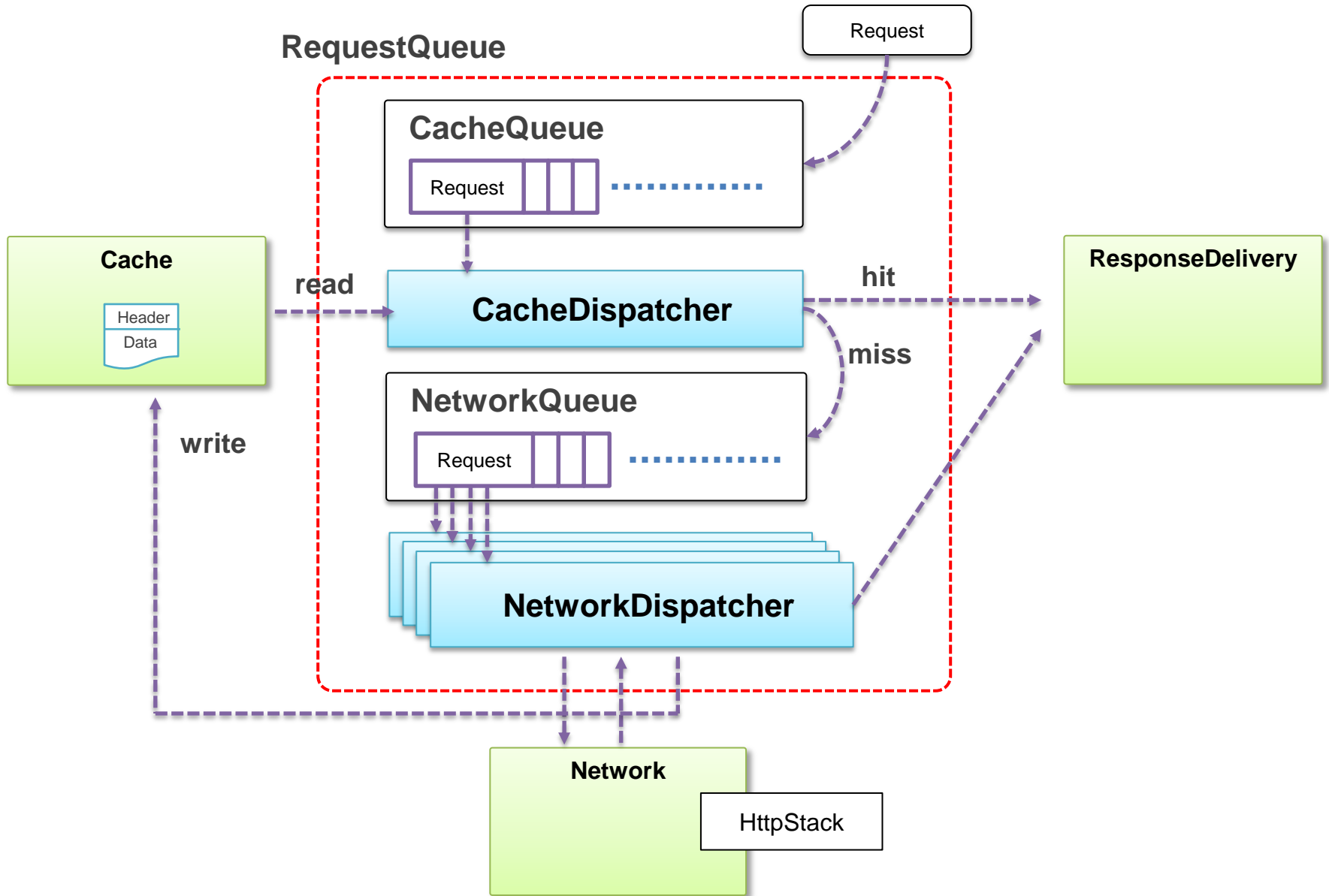


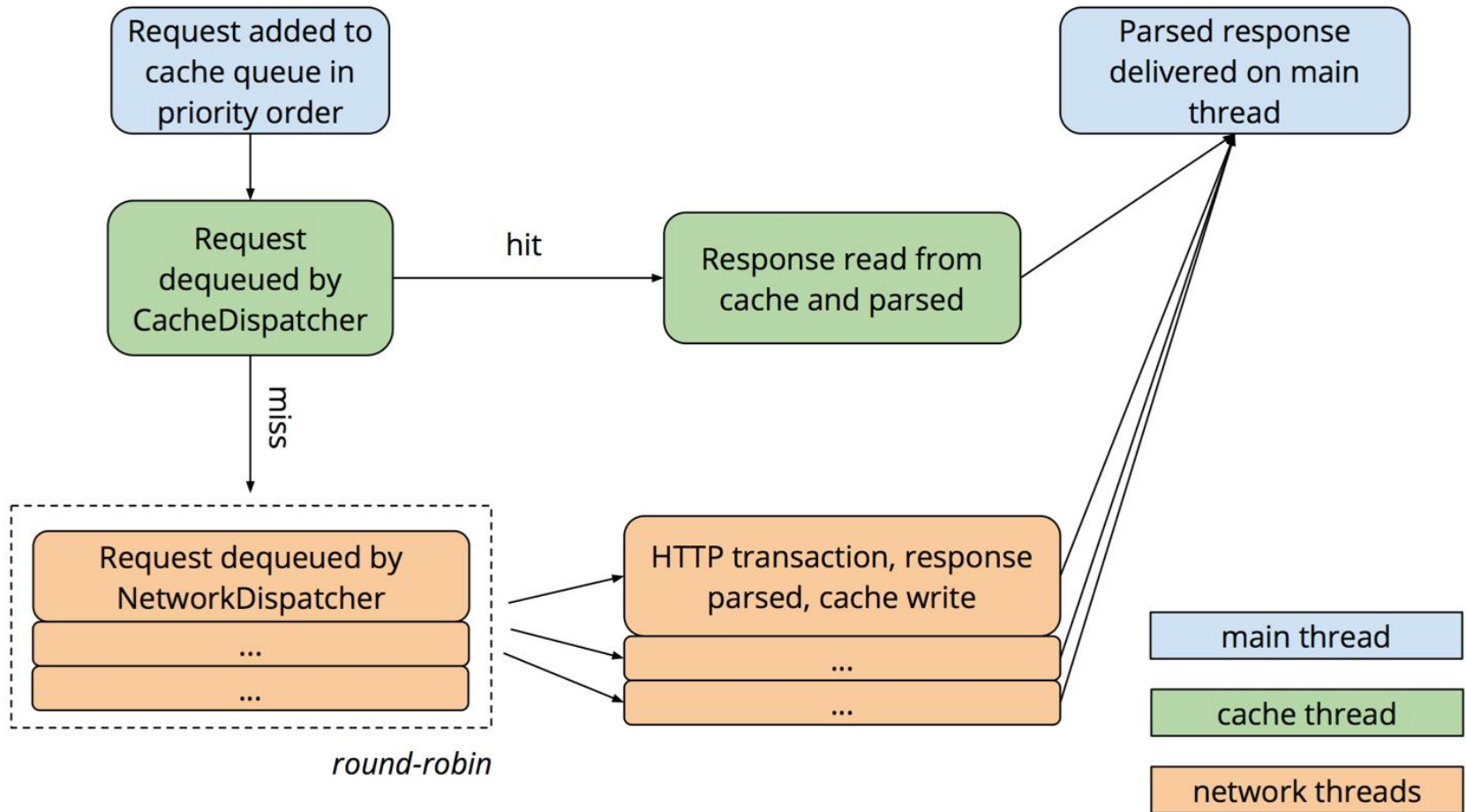
# Volley - HttpStack

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# Volley - Architecture





## *Design tradeoffs*

- *Great for RPC-style network operations that populate UI*
- *Fine for background RPCs*
- *Terrible for large payloads*

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**감사 합니다.**