



Keishin Yokomaku / potatotips #36 @ Money Forward, Inc.

Resource management in Robolectric

About Me

▶ Keishin Yokomaku

 Drivemode, Inc. / Principal Engineer

 Keith Yokoma: [GitHub](#) / [Twitter](#) / [Qiita](#) / [Tumblr](#) / [Stack Overflow](#)

▶ Books: [Android Academia](#) / [Grimoire of Android](#) / [Nanairo Android](#)

▶ Fun: Gymnastics / Cycling / Photography / Motorsport

▶ Today's Quote: "Happy DroidKaigi!"

Robolectric?



- ▶ Android testing framework running on JVM
 - ▶ Emulates Android framework behavior in JVM, instead of device or emulator
 - ▶ Has tons of mock implementation on framework and system services
- ▶ Popular choice of testing framework in Android development
 - ▶ Frequently combined with Mockito



**まだ Robolectric で
消耗してるの？**

気軽に言ってくれるなあ



Latest update in Robolectric

- ▶ API 24 & 25 support
- ▶ Configuration file location change
 - ▶ `$app_module/src/test/resources/your/package/name/robolectric.properties`
- ▶ Resource loading updates & modifications
- ▶ Easy customization for RobolectricTestRunner
- ▶ etc...

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1318	22	13	1m49.59s
tests	failures	ignored	duration



Resource management in Robolectric

Steps to execute a test method

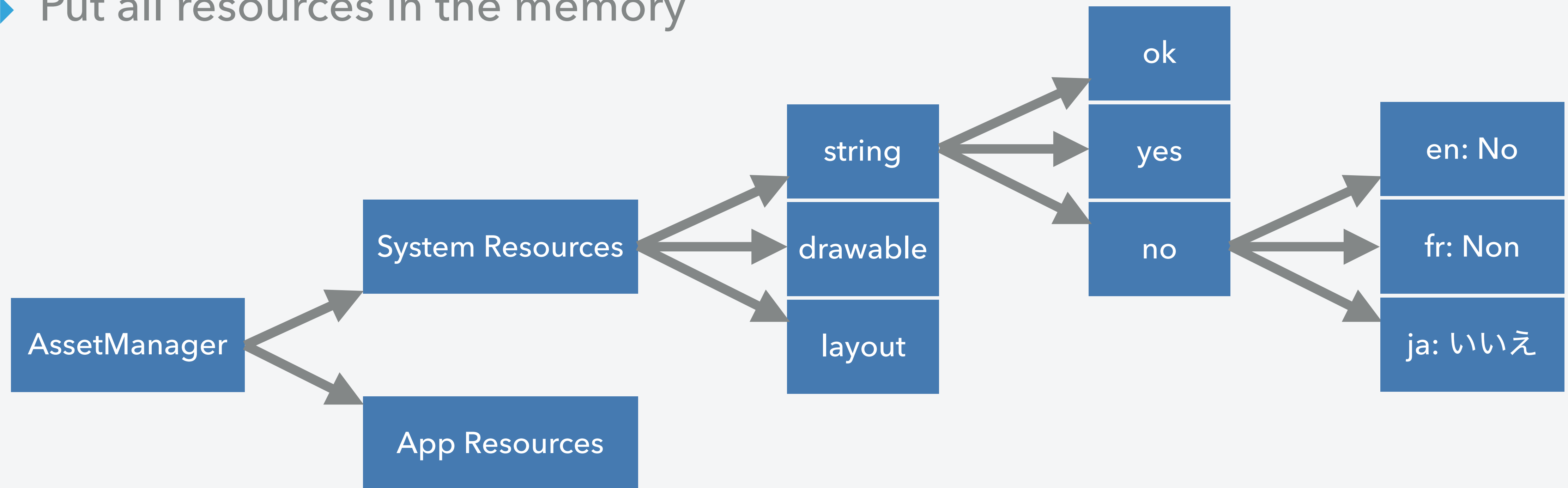
1. Load test class
2. Invoke @BeforeClass if any
3. Set up test environment based on @Config or robolectric.properties
4. Reset static states
5. Load system resources and app resources
6. Invoke @Before, @Test, @After methods

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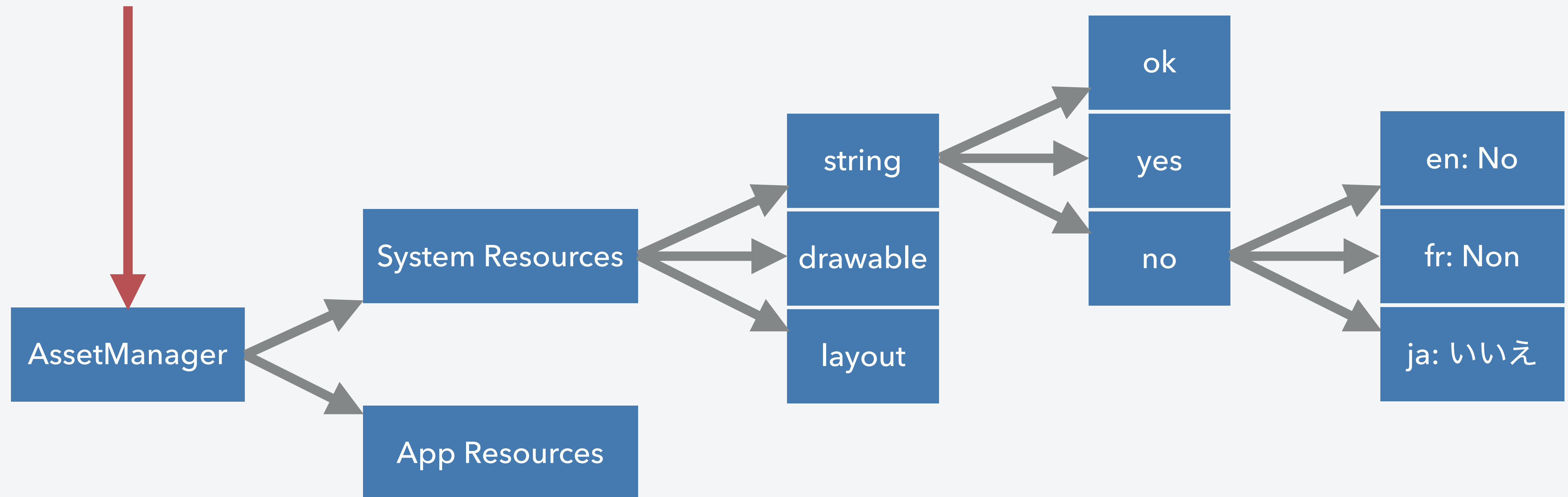
From Robolectric 3.1.3

- ▶ Robolectric has a table which maps all resources (app and system resources)
 - ▶ Put all resources in the memory



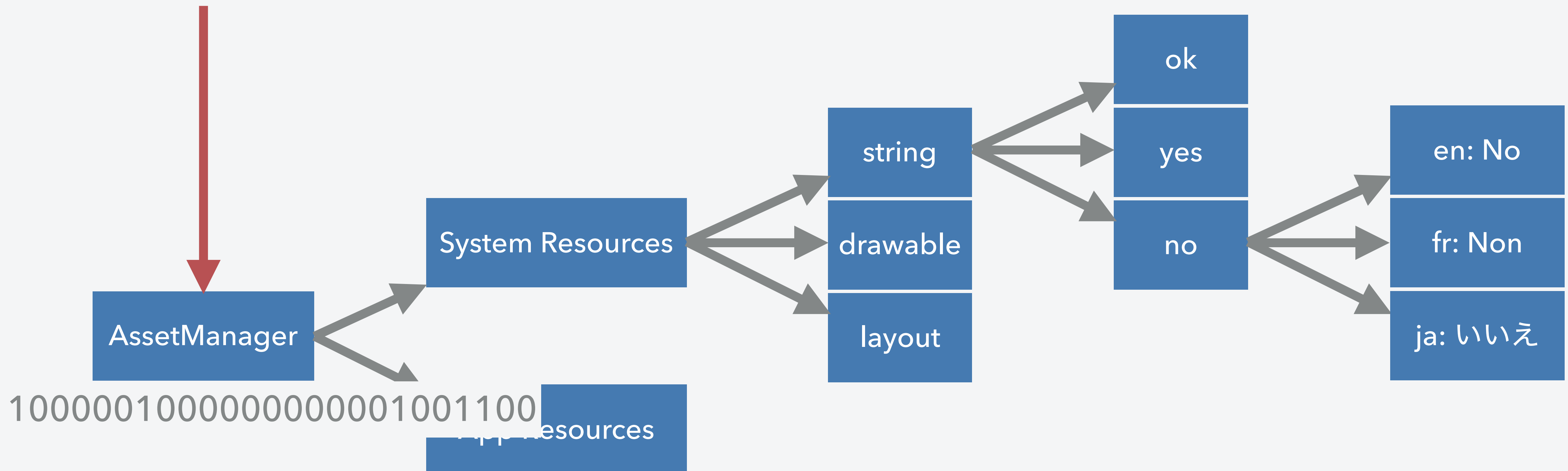
How to resolve resource from resource id in the test

context.getString([R.string.no](#)) # [R.string.no](#) => 17049821



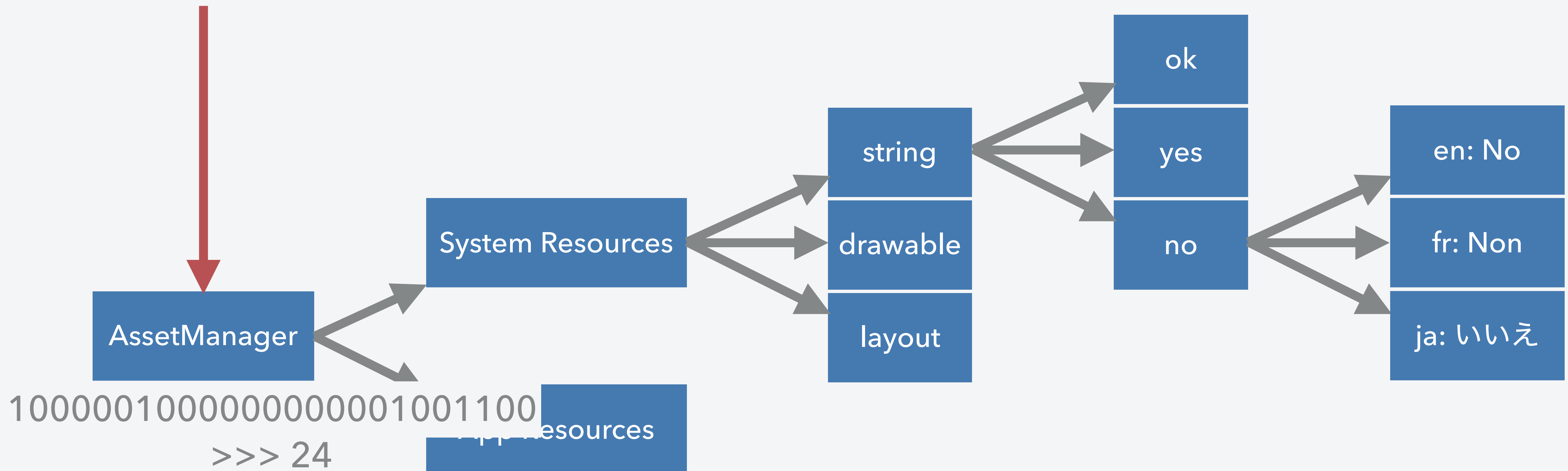
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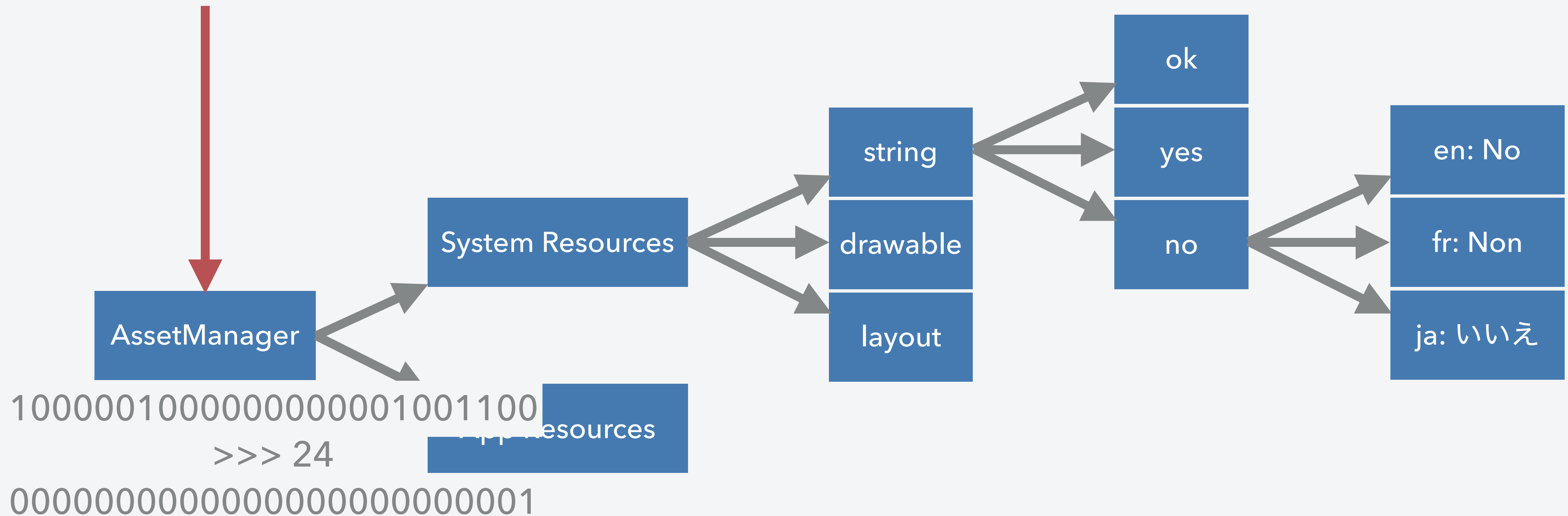
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`context.getString(R.string.no) # R.string.no => 17049821`



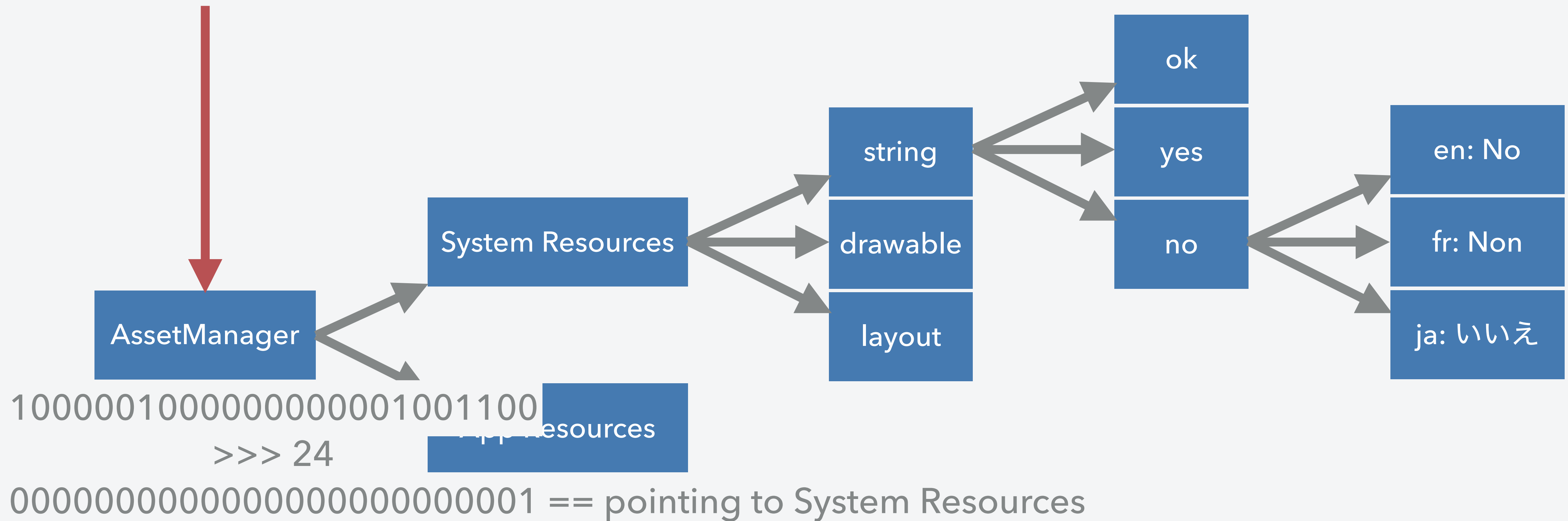
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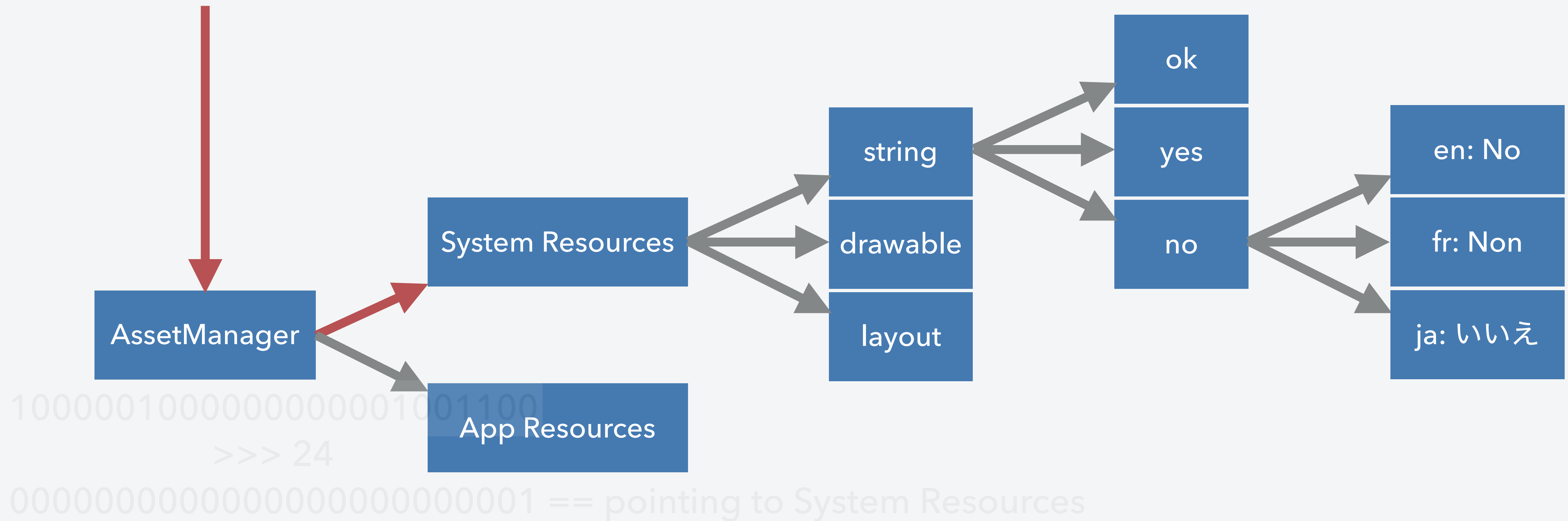
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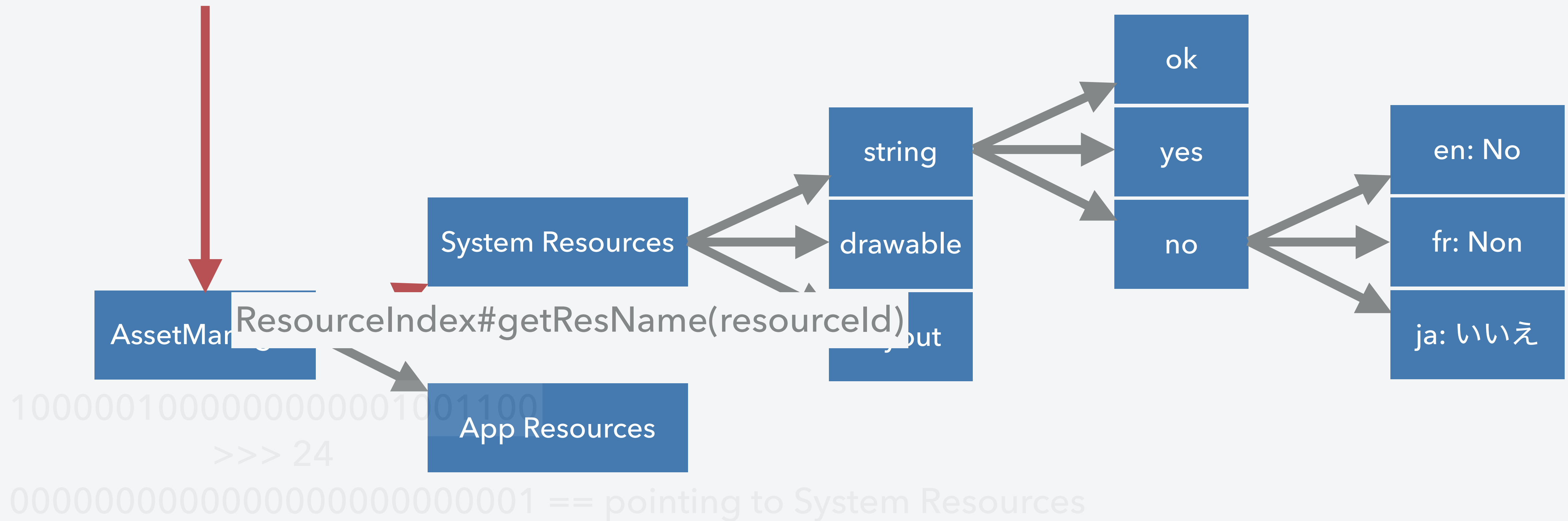
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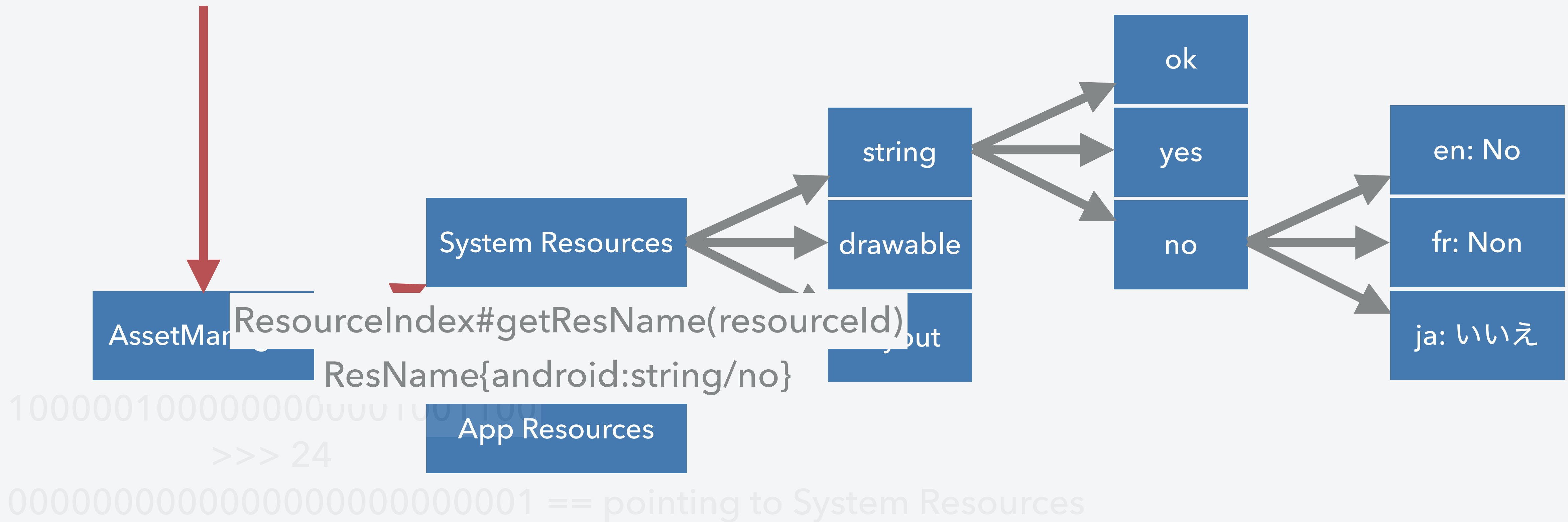
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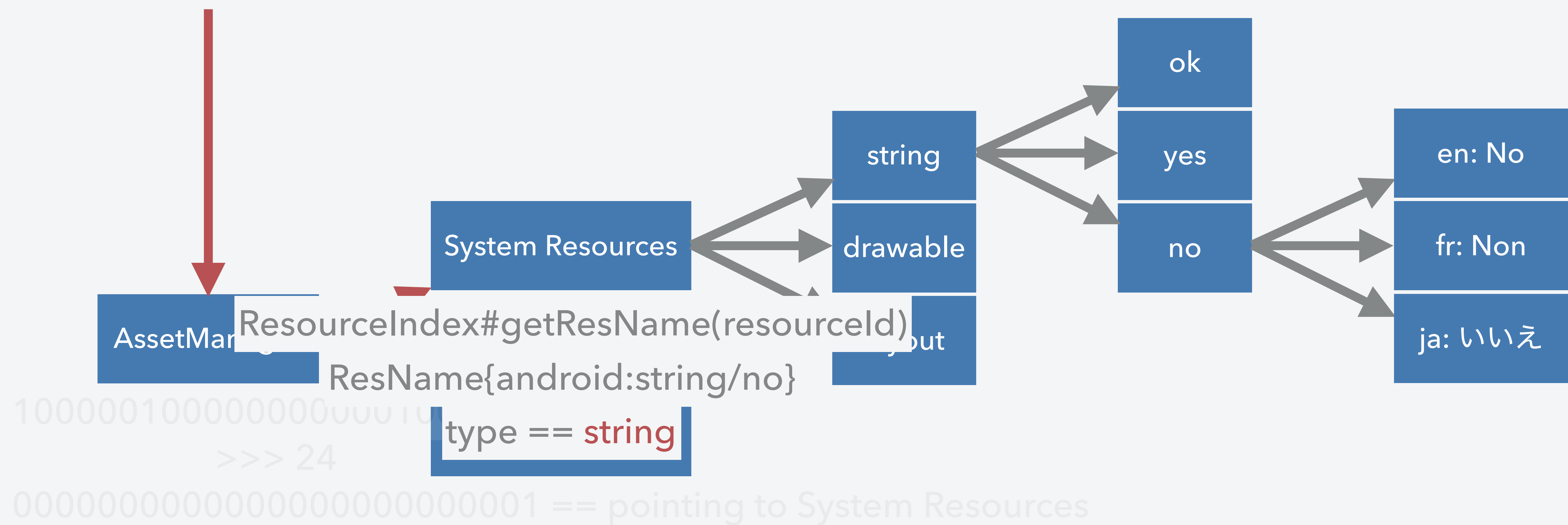
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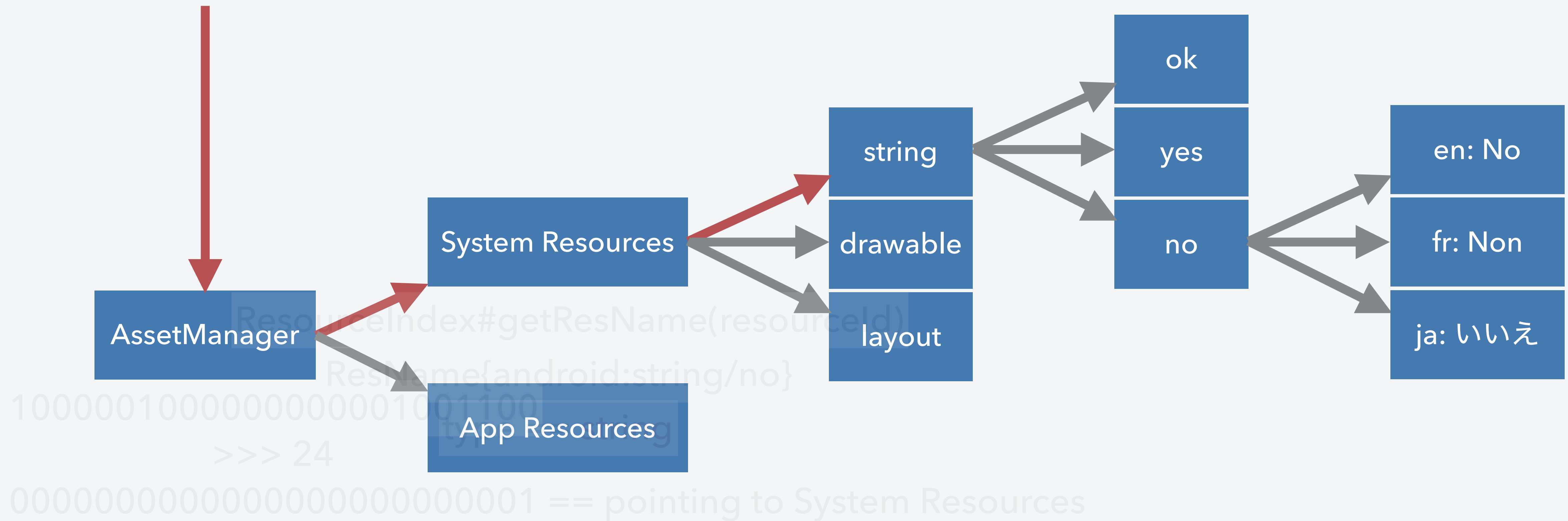
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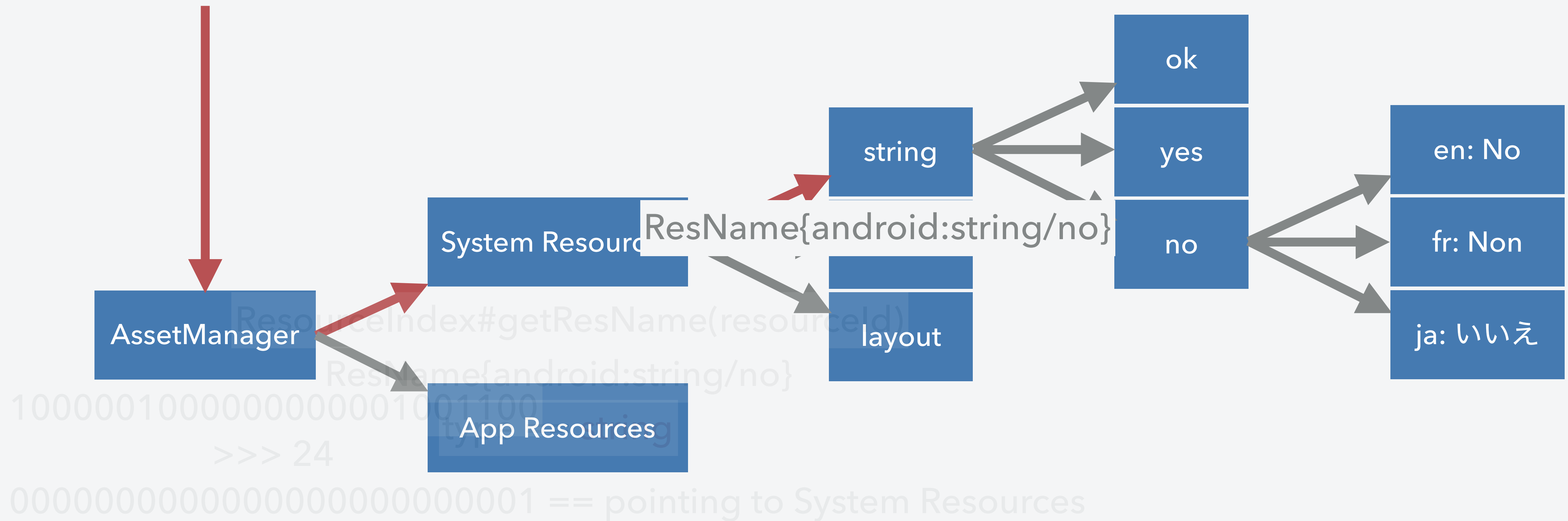
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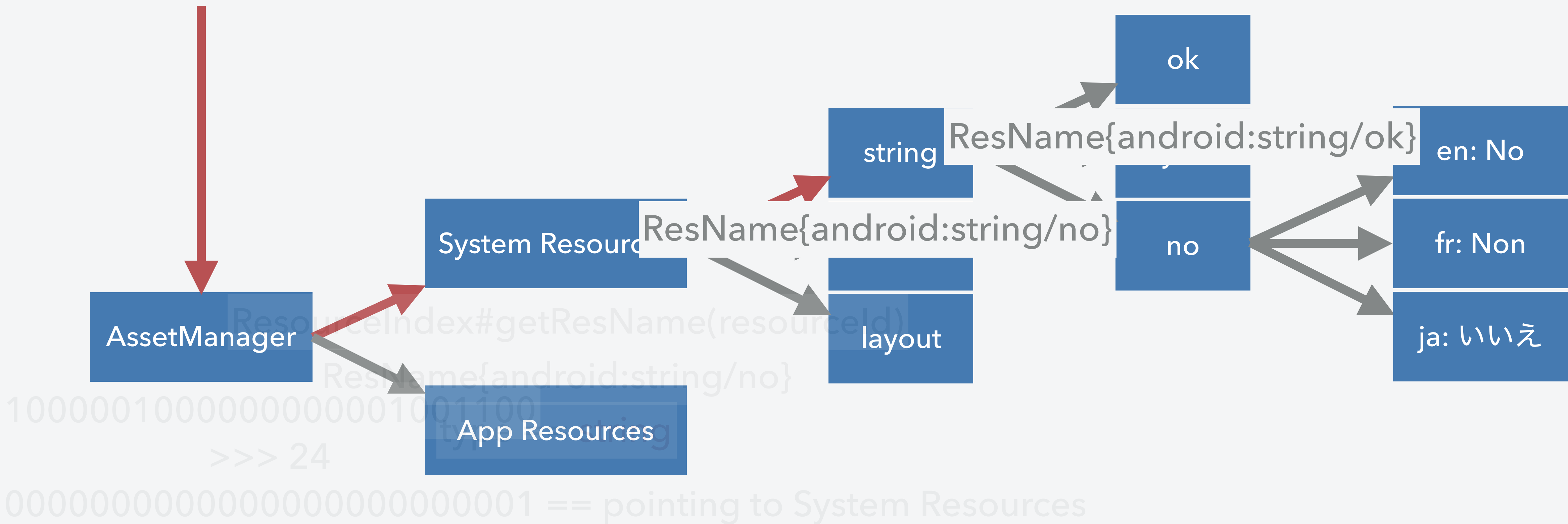
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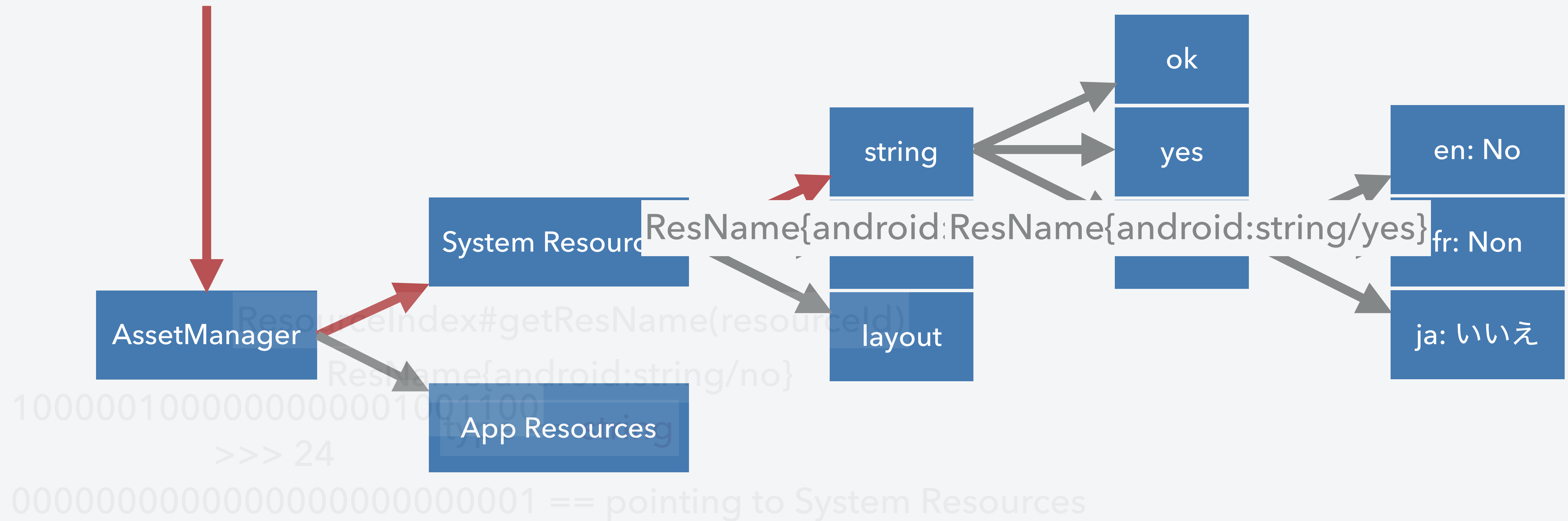
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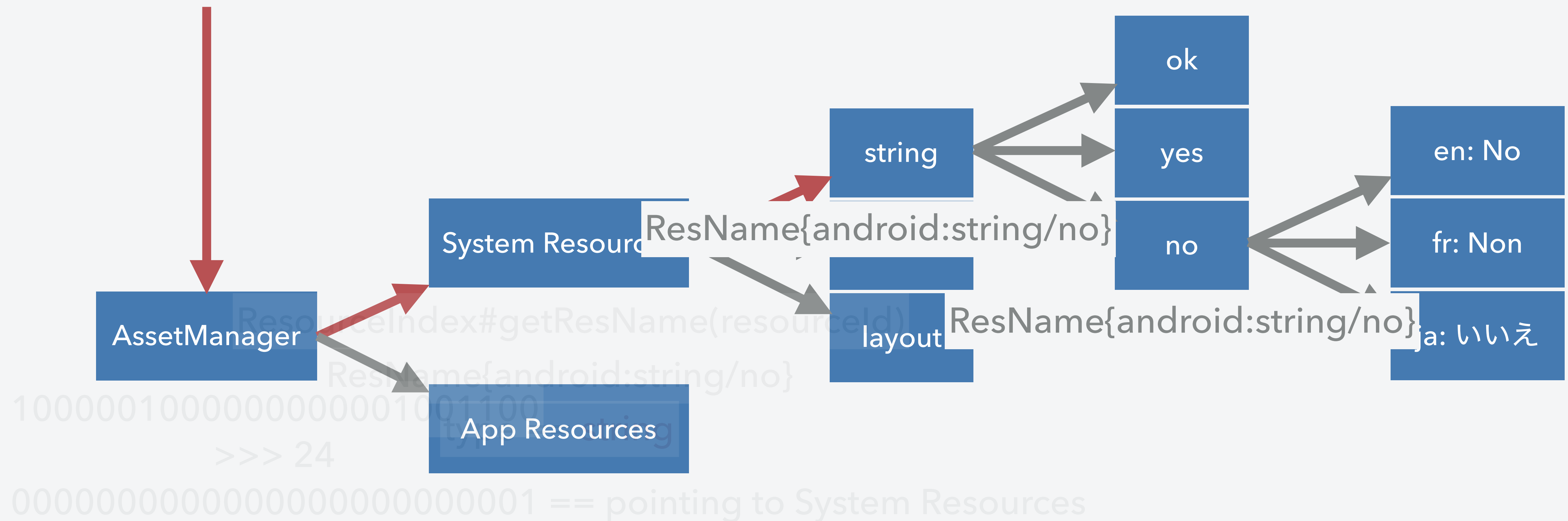
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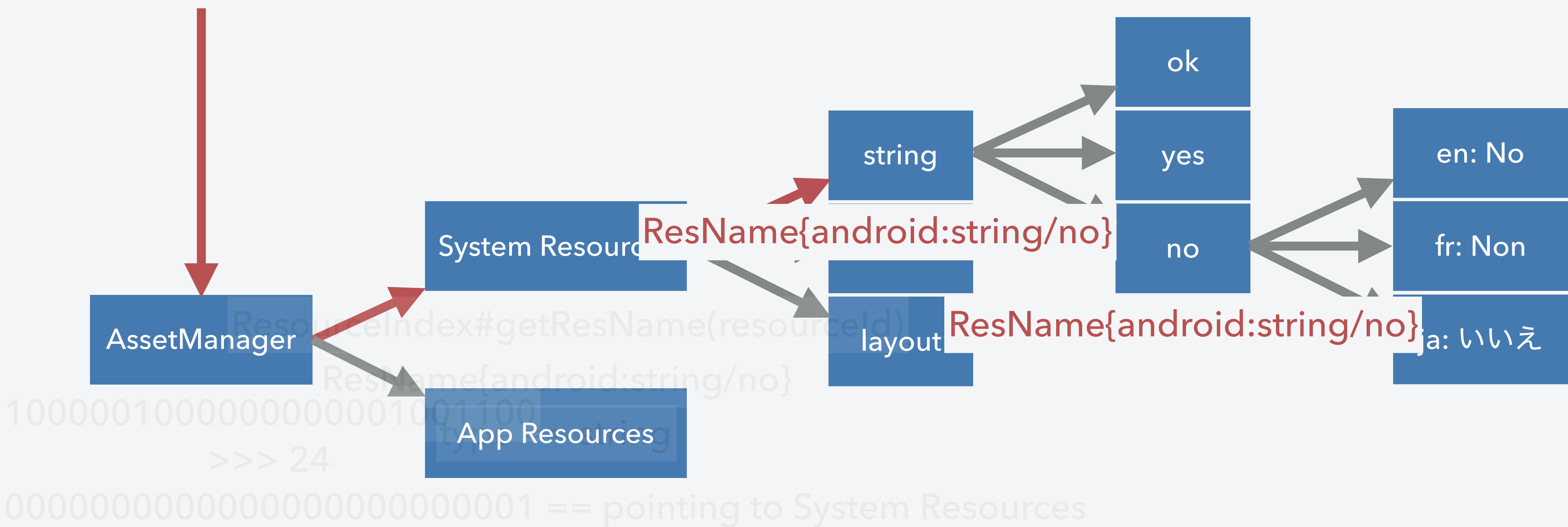
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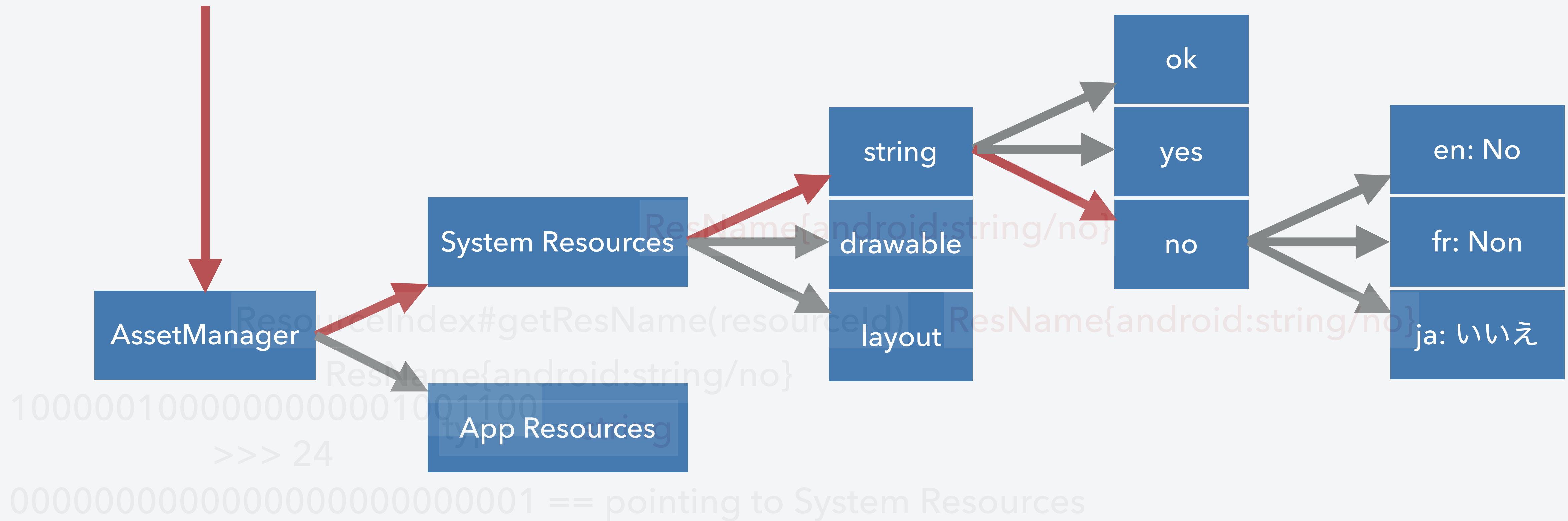
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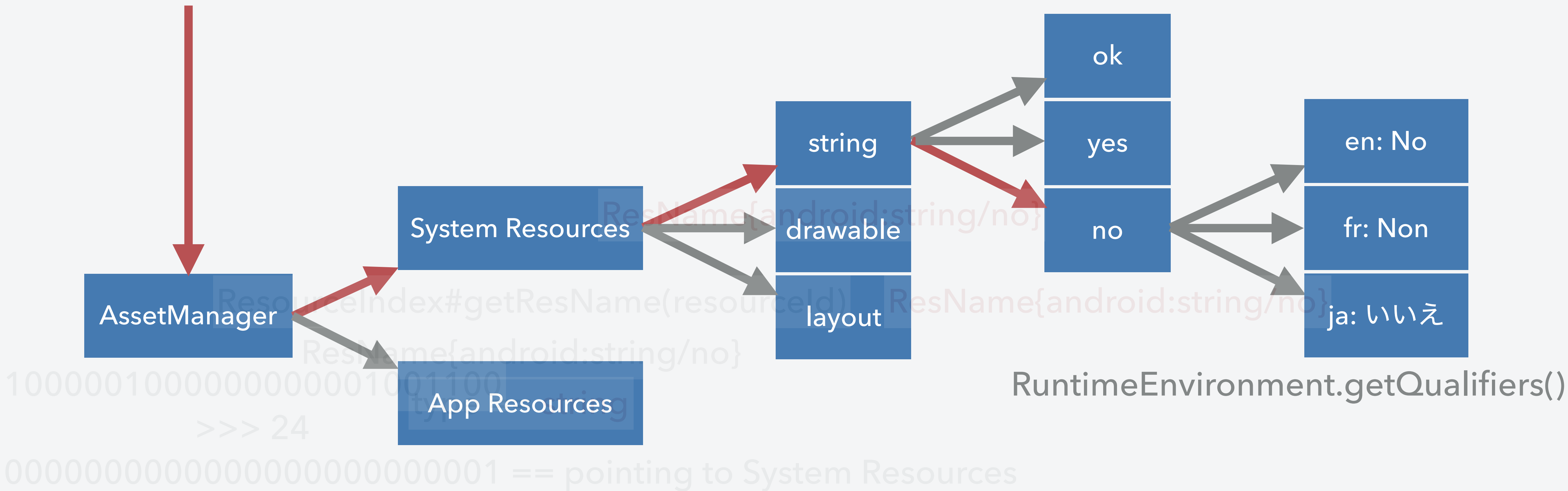
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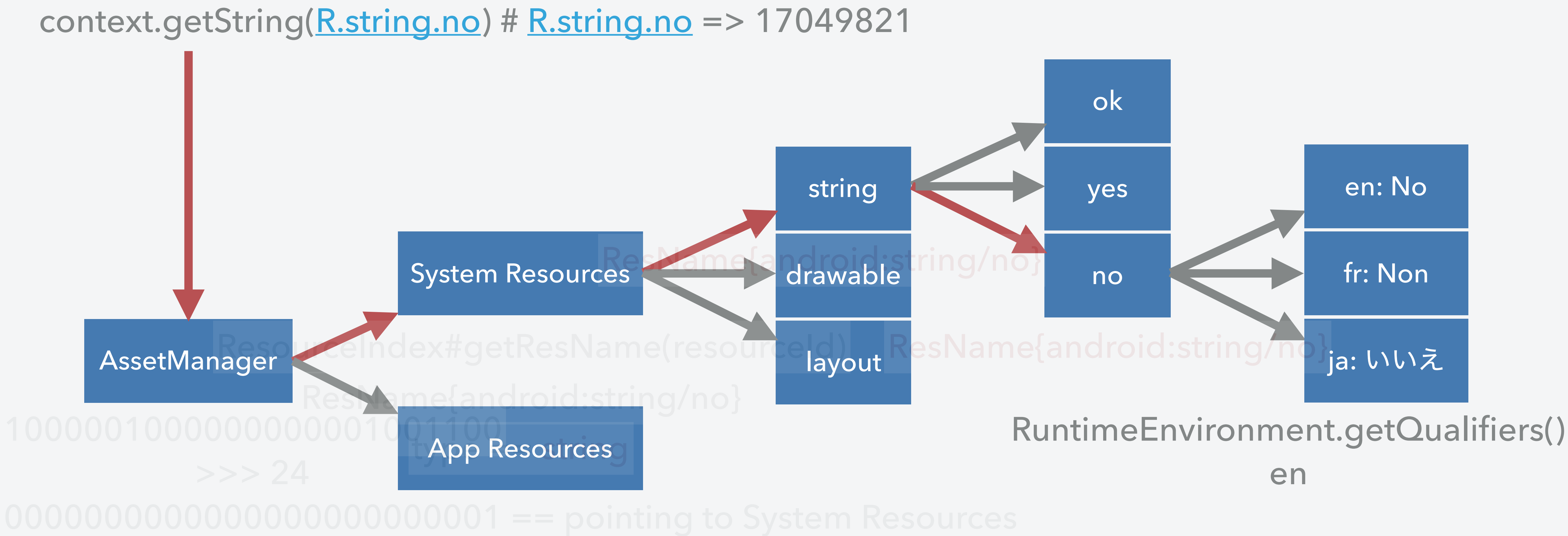


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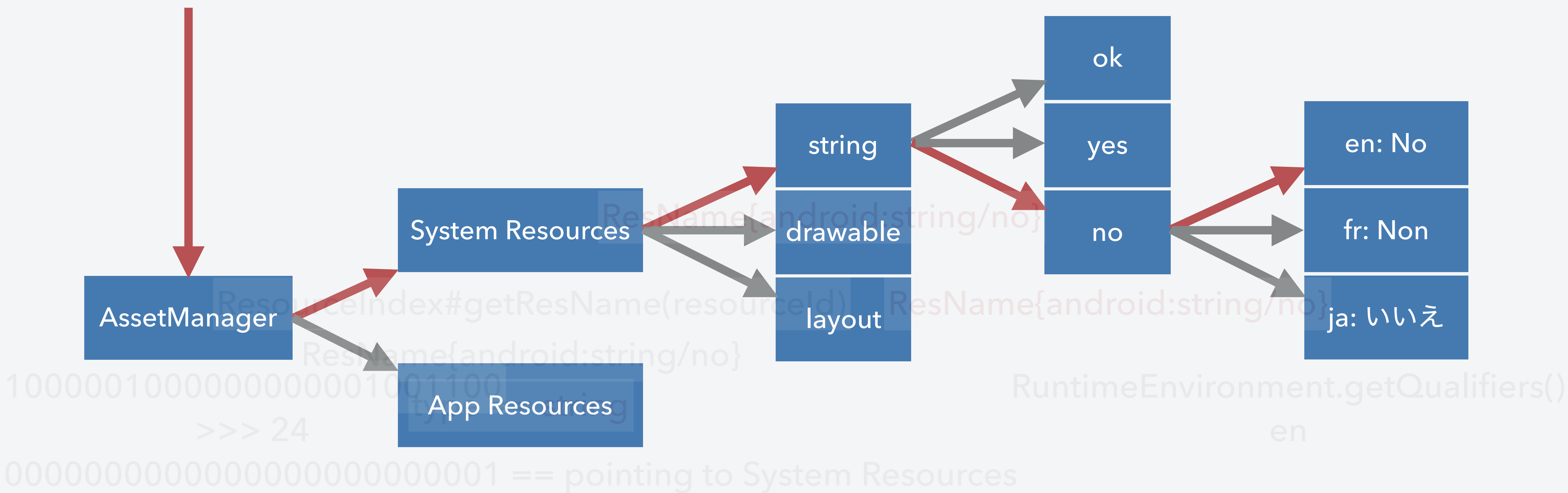


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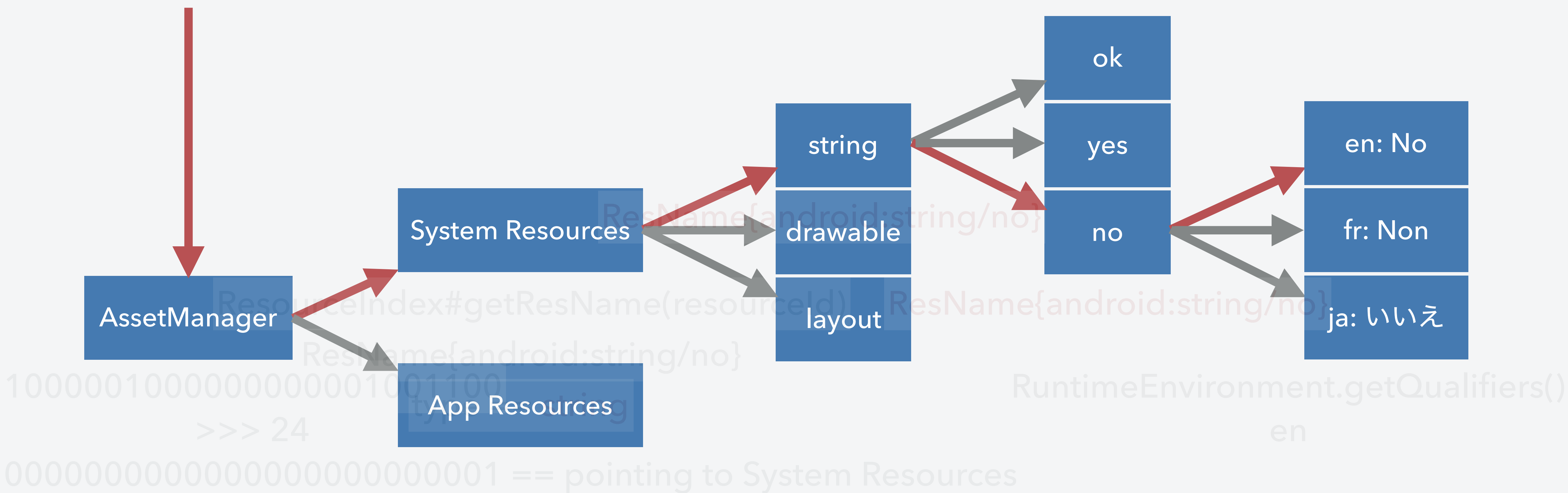
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context.getString(R.string.no) # R.string.no => 17049821
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How to resolve resource from resource id in the test

```
context.getString(R.string.no) => "No" # R.string.no => 17049821
```





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Tickets available! <http://bit.ly/2gFFK8z>



DroidKaigi 2017

March, 9-10, 2017
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