



Keishin Yokomaku / potatotips #39 @ CyberAgent, Inc.

What's new in Android 0 WindowManager

About Me

▶ Keishin Yokomaku

 Drivemode, Inc. / Principal Engineer

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

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

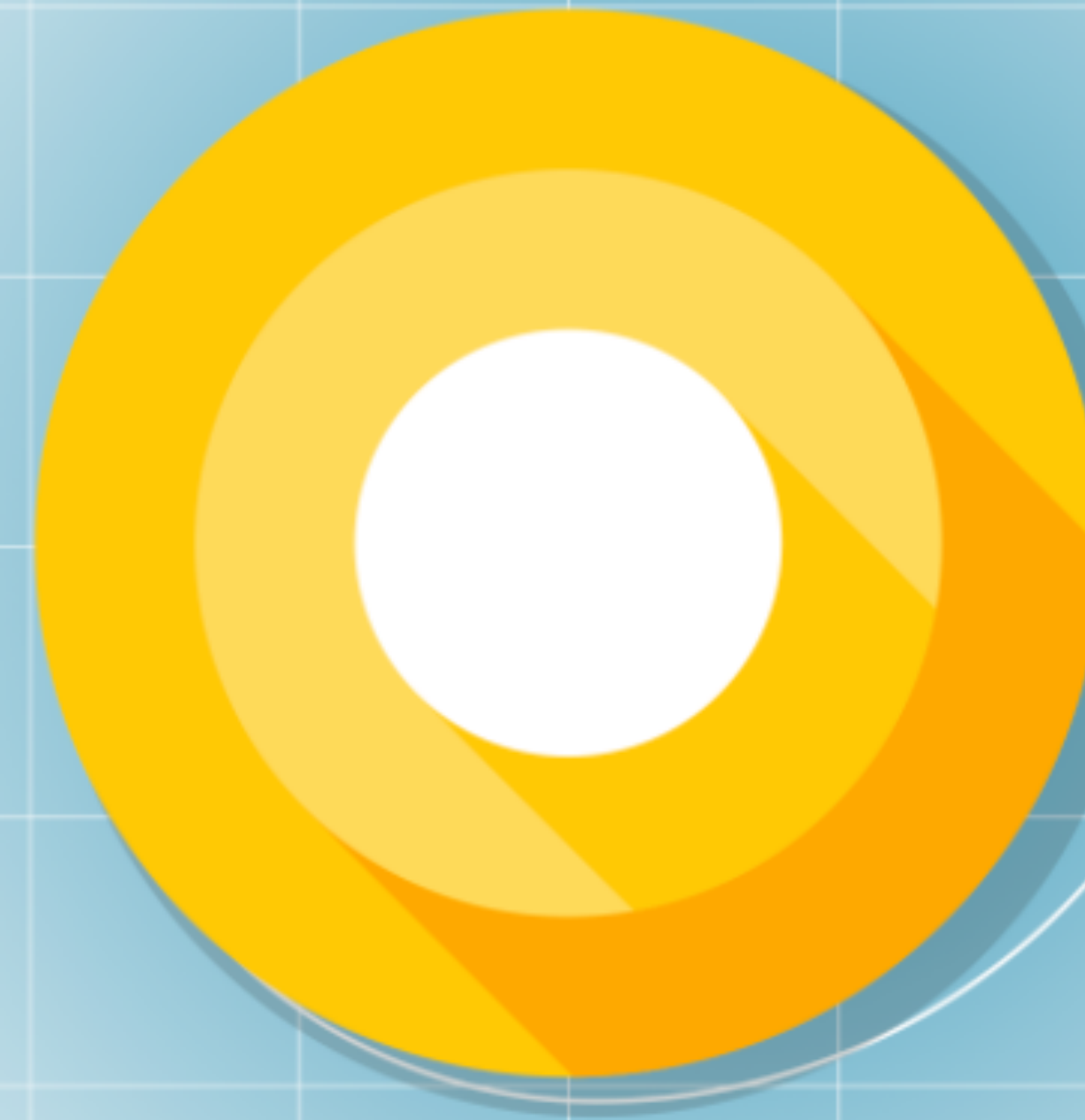
▶ Fun: Gymnastics / Cycling / Photography / Motorsport

▶ Today's Quote: “ま か せ て”

Android O Developer Preview

An early look at the next version of Android for testing, development, and feedback. Get your apps ready for Android O!

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Class android.view.WindowManager.LayoutParams

Added Methods		
int	getColorMode()	
void	setColorMode(int)	
Added Fields		
int	ROTATION_ANIMATION_SEAMLESS	
int	TYPE_APPLICATION_OVERLAY	
Changed Fields		
int	FLAG_DISMISS_KEYGUARD	Now deprecated.
int	TYPE_PHONE	Now deprecated.
int	TYPE_PRIORITY_PHONE	Now deprecated.
int	TYPE_SYSTEM_ALERT	Now deprecated.
int	TYPE_SYSTEM_ERROR	Now deprecated.
int	TYPE_SYSTEM_OVERLAY	Now deprecated.
int	TYPE_TOAST	Now deprecated.

Class android.view.WindowManager.LayoutParams

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Added Fields

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**In my session on
DroidKaigi 2017...**

(多分)よく使うWindowManager のレイヤ

▶ TYPE_SYSTEM_OVERLAY

- ▶ ロック画面の上。タッチイベントを拾ってはダメ。

▶ TYPE_SYSTEM_ALERT

- ▶ Toast よりも上。

▶ TYPE_SYSTEM_DIALOG

- ▶ アプリケーションよりも上。

(多分)よく使うWindowManager のレイヤ

▶ ~~TYPE SYSTEM OVERLAY~~

- ▶ ~~ロック画面の上。タッチイベントを拾ってはダメ。~~

▶ ~~TYPE SYSTEM ALERT~~

- ▶ ~~Toast よりも上。~~

▶ TYPE SYSTEM DIALOG

- ▶ アプリケーションよりも上。



Deprecated

- ▶ Drawing views beyond the keyguard is not allowed at all.
- ▶ Layers are much simpler than before.
- ▶ New layer "TYPE_APPLICATION_OVERLAY" added.
- ▶ System will prioritize the app using "TYPE_APPLICATION_OVERLAY".
- ▶ System may change the position, size, or visibility of the view at any time.

What is the result of using deprecated layers?

- ▶ Still we can draw views.
- ▶ But touch events are not delivered to those views.
- ▶ Some more changes in future releases?

Follow up

- ▶ It's more like a public API than before.
- ▶ Simplified and consolidated.
- ▶ System may have a chance to take controls of relocating/resizing/hiding views.

More information about WindowManager

- ▶ Colorful Android
 - ▶ 技術書典2 from TechBooster
 - ▶ URL: <https://techbooster.github.io/tbf02/>
 - ▶ Booth: <https://booth.pm/ja/items/488337>





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