Explaining iOS Devices Weaknesses

Dale Meredith
MCT | CEI | CEH | MCSA | MCSE
Cyber Security Expert

dalemeredith.com | Twitter: @dalemeredith | Linkedin: dalemeredith

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“With enough time, nothing is unhackable.”

Unknown

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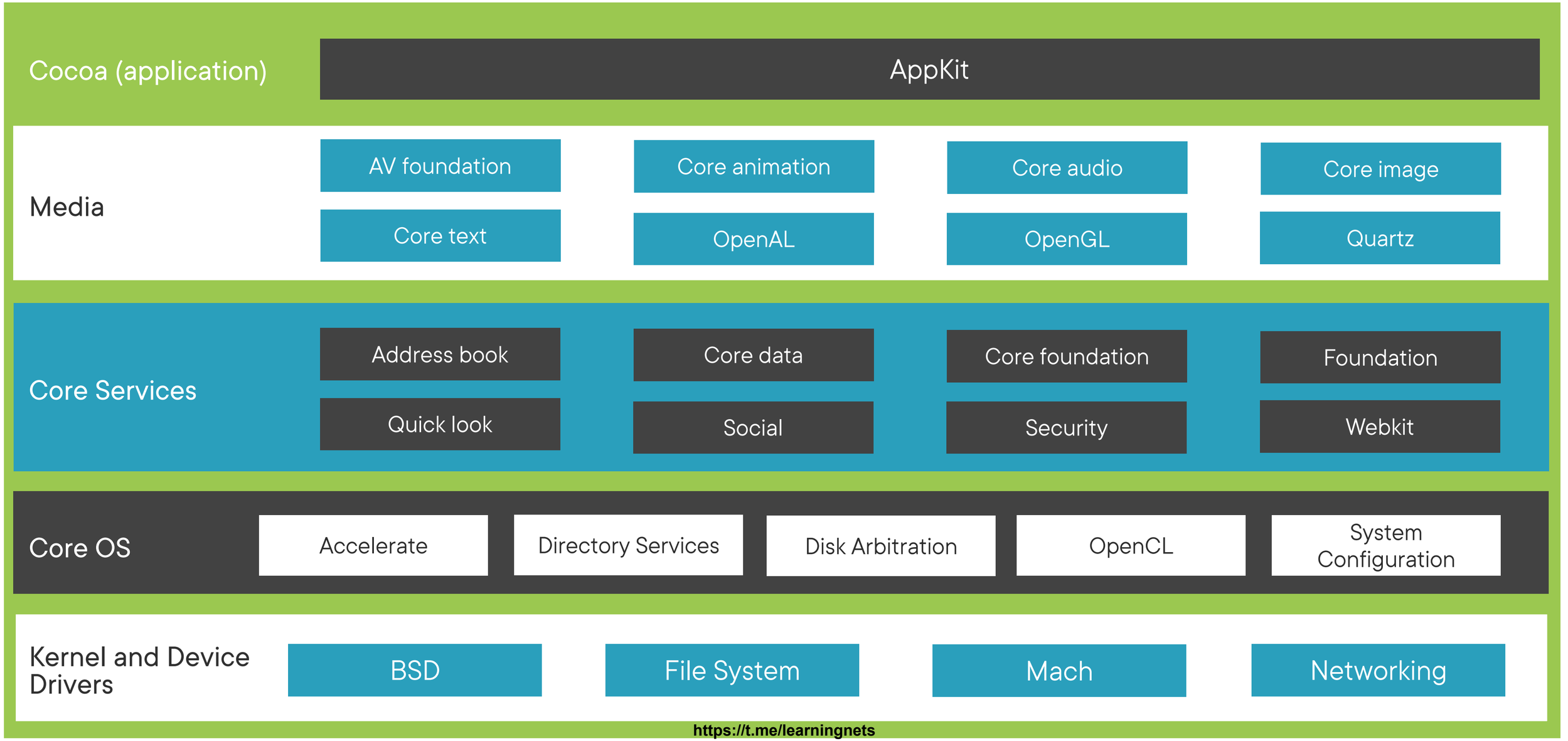
Apple's Architecture



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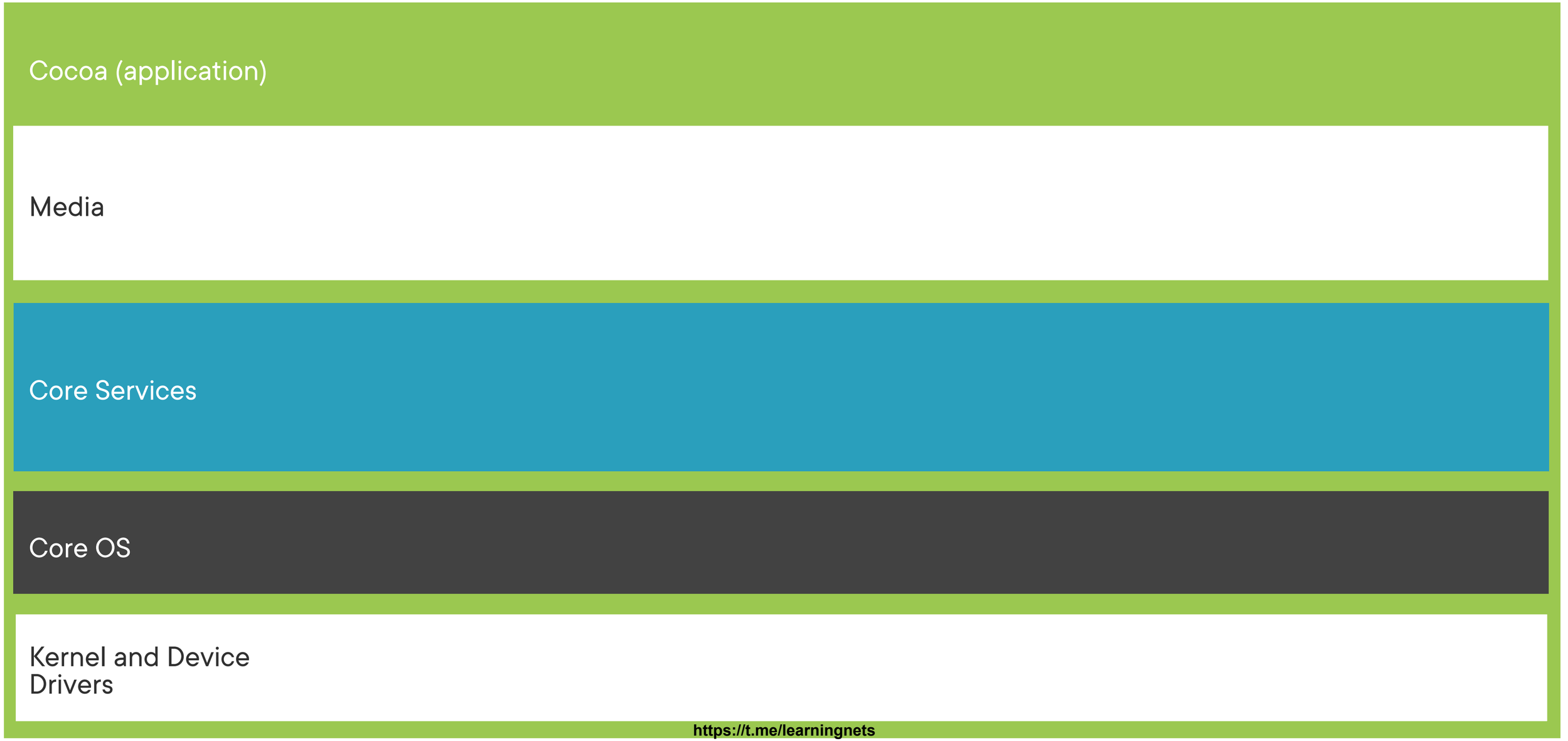

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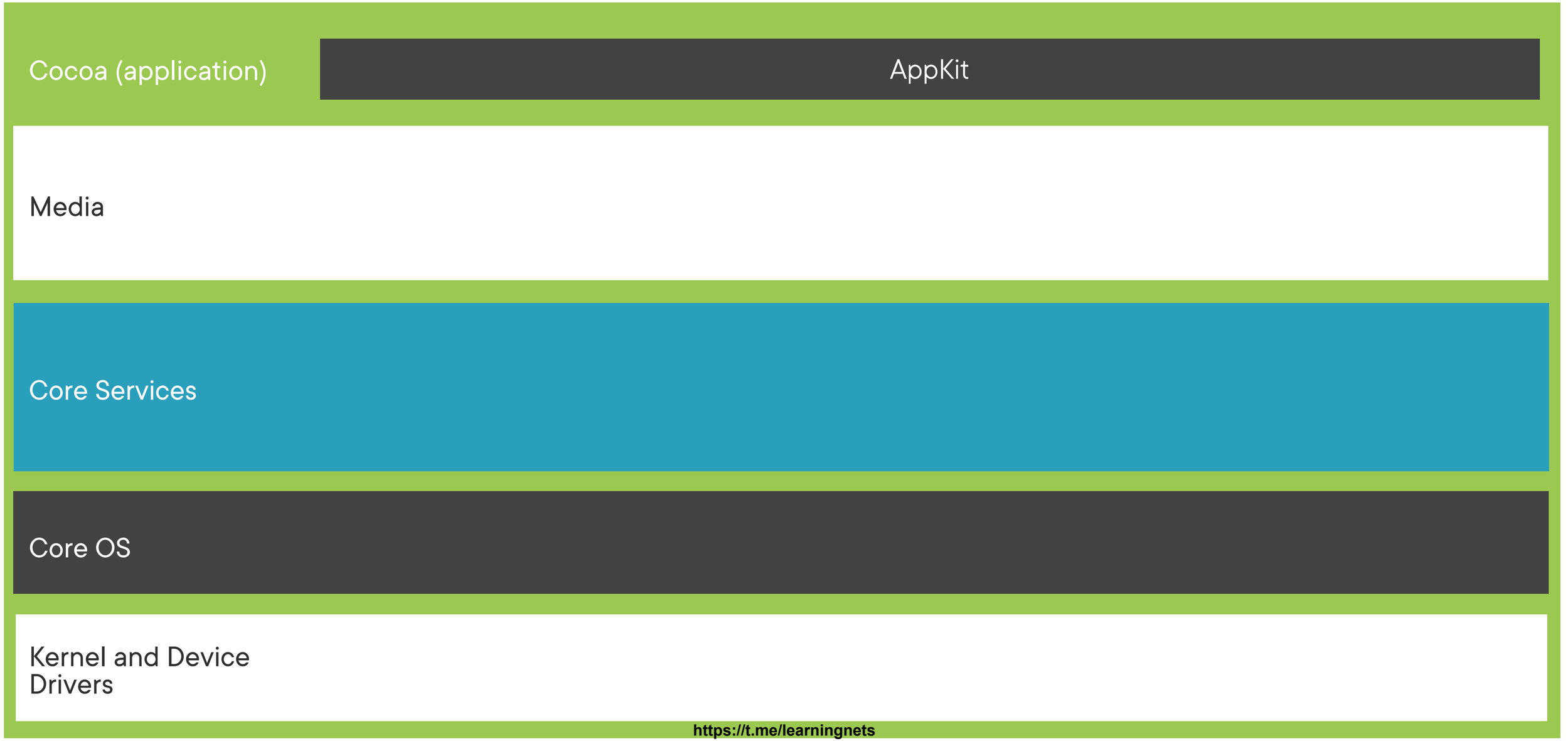

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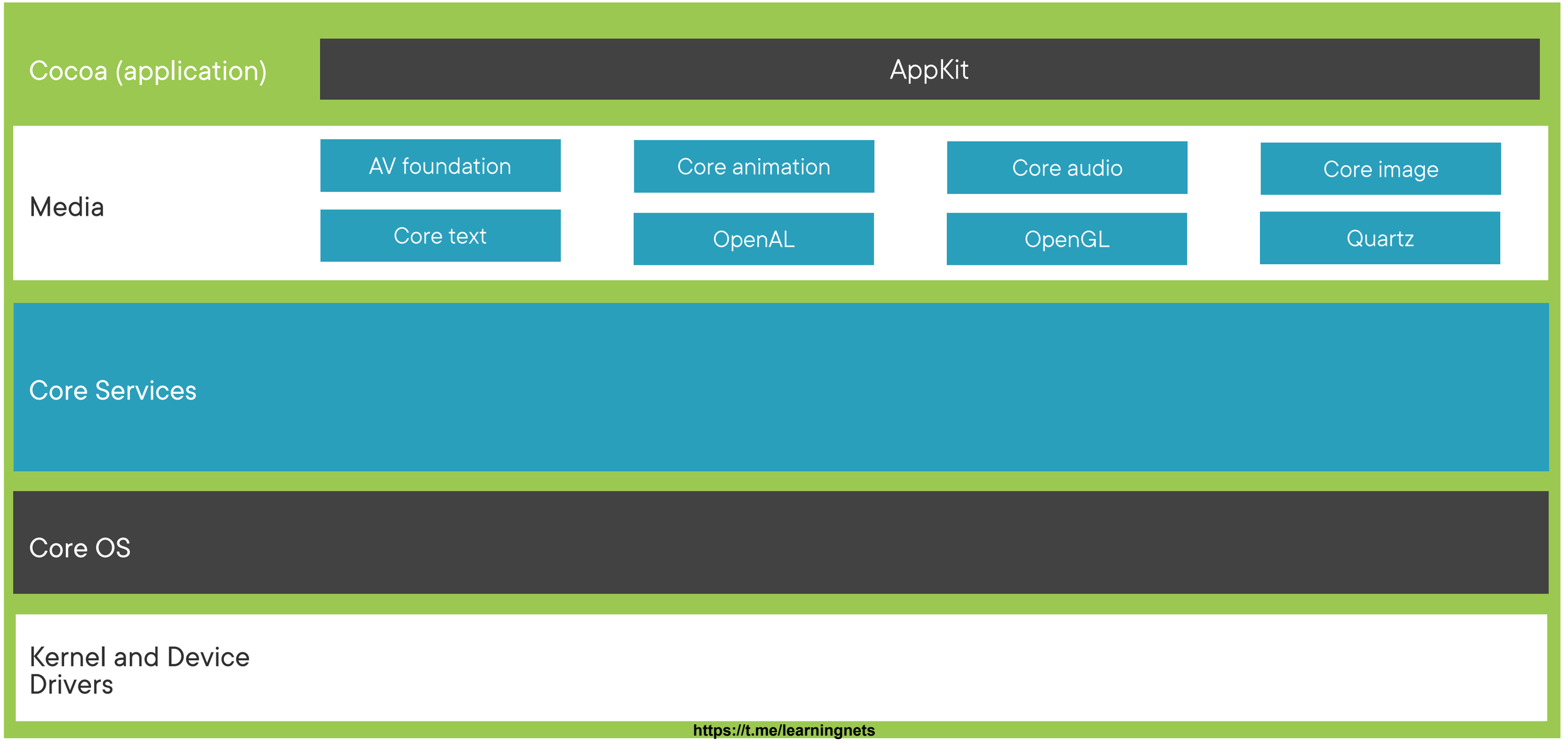

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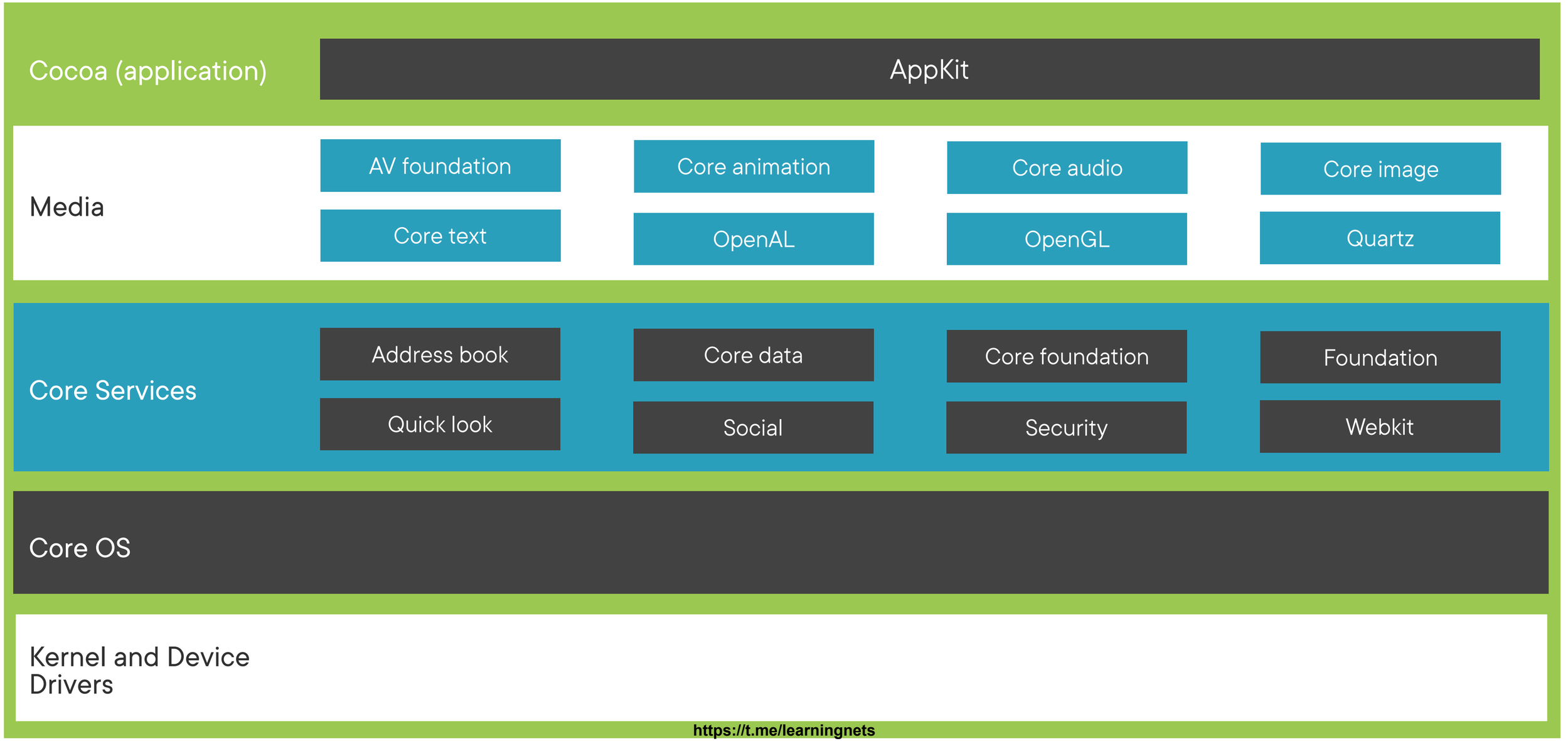

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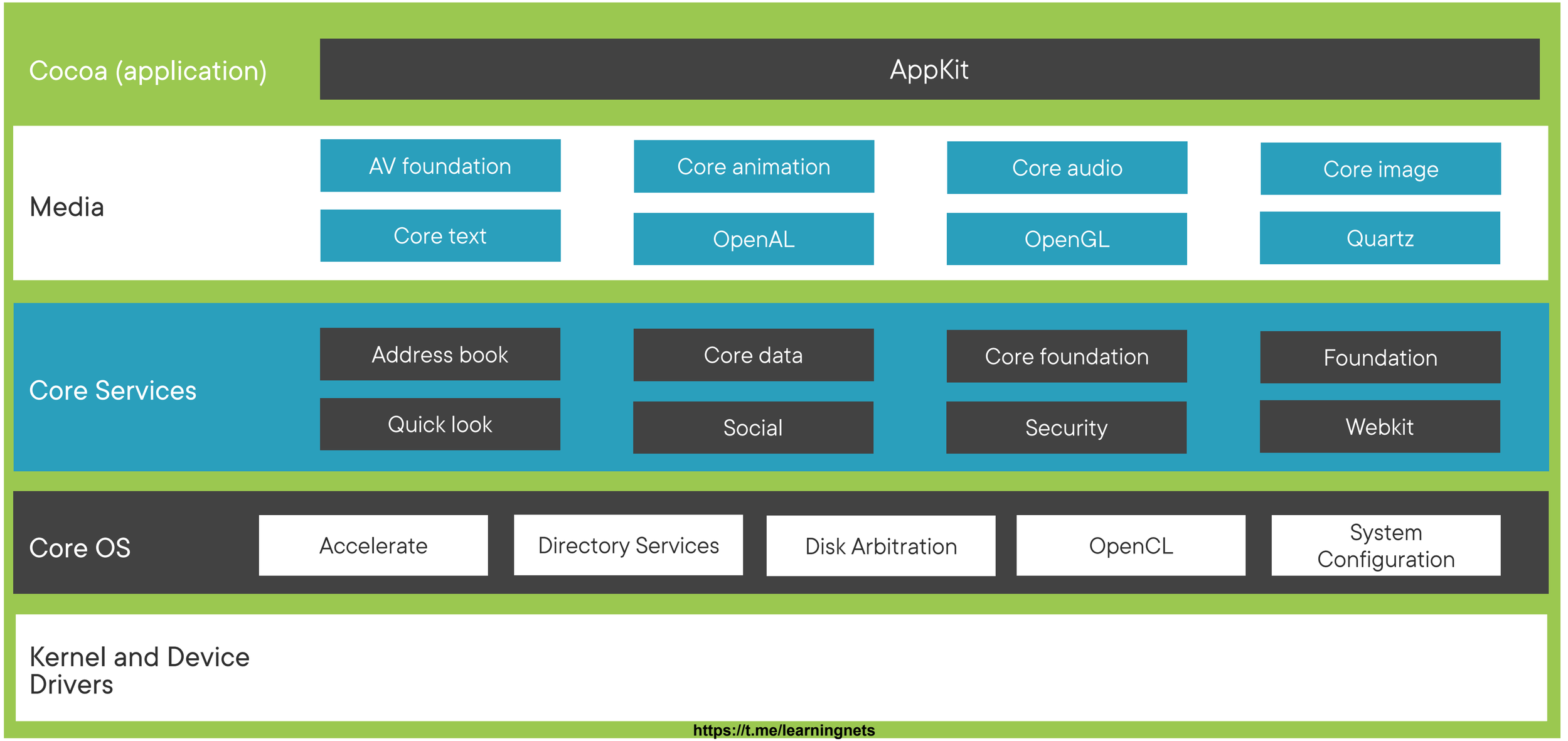

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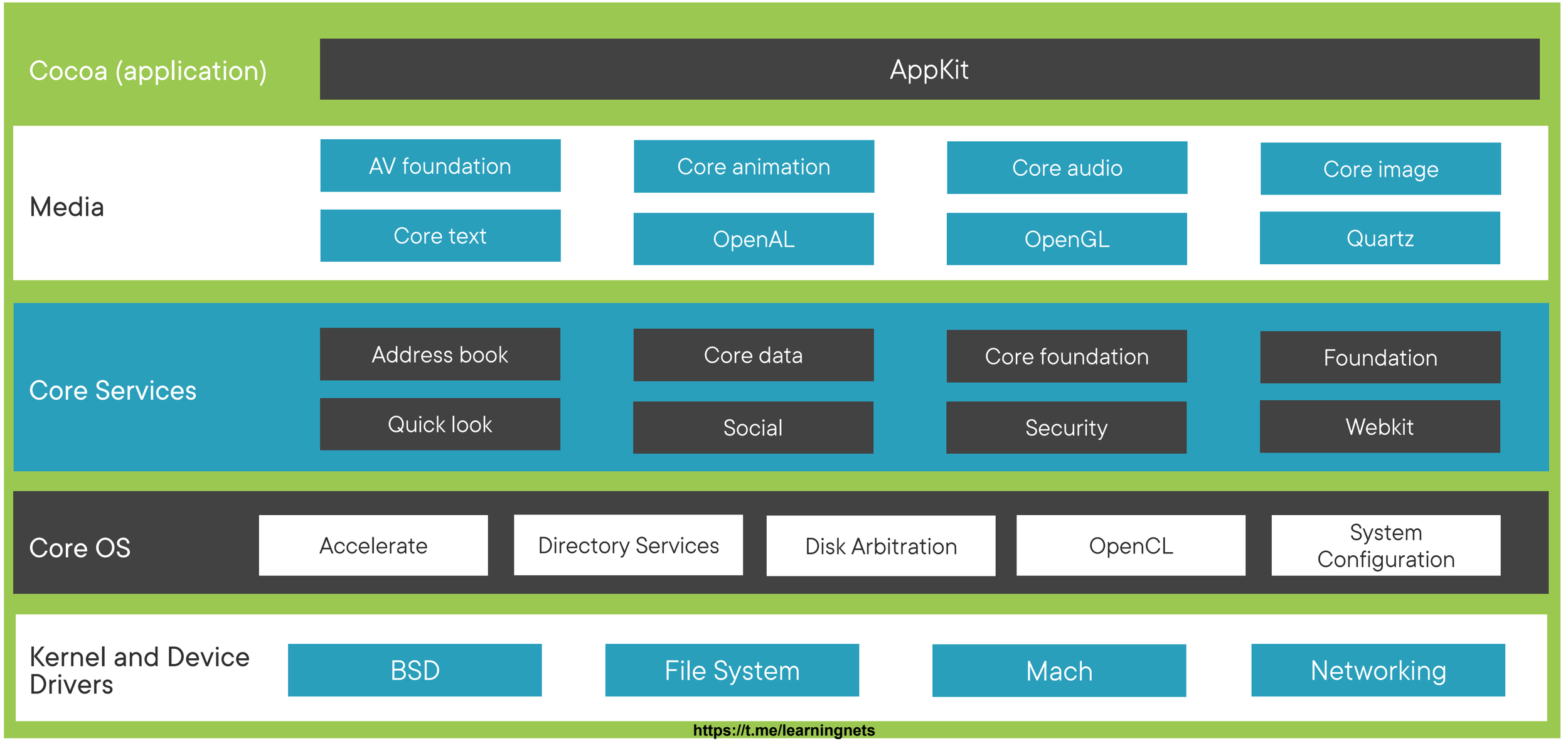

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Jailbreaking

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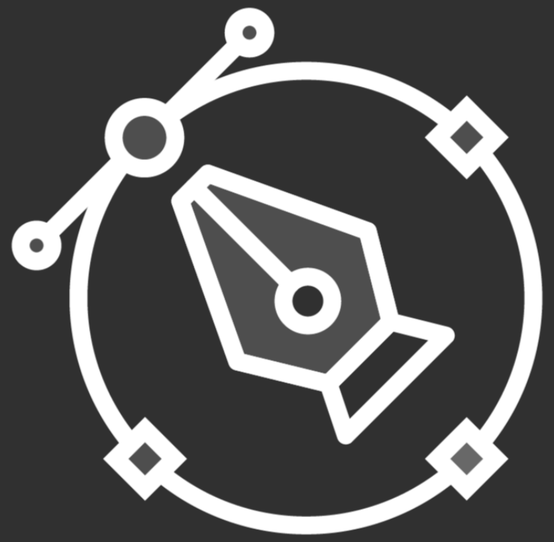
Jailbreaking vs. Rooting



Jailbreaking
Bends the rules

Rooting
Bends and breaks the rules

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Jailbreaking

Removes restrictions

Utilizes a custom kernel

Allows for customization

Goes against Apple’s terms and conditions

Enhances functionality

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Jailbreaking eliminates sandbox restrictions, allowing malicious applications to access restricted resources and data.

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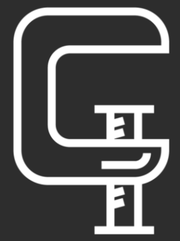
Jailbreaking Tools

Cydia

Yuxigon



Hexxa Plus

Sileo

ApricotiOS

Trimgo

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Types of Jailbreaking

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Jailbreaking Techniques

Untethered jailbreak

Tethered jailbreak

Semi-tethered jailbreak

Semi-untethered jailbreak

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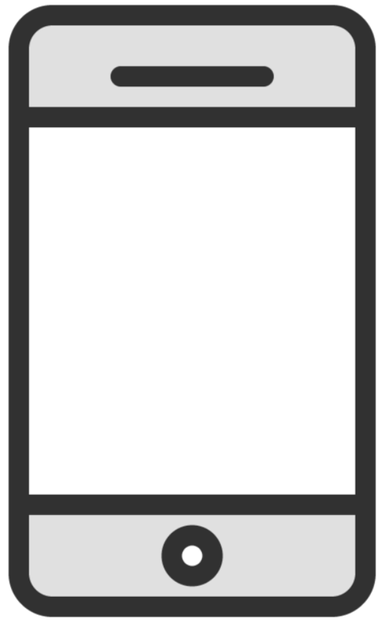
Types of Jailbreaking

- **The userland exploit**
- **The iBoot exploit**
- **The Boot ROM exploit**



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Securing Apple's Platform

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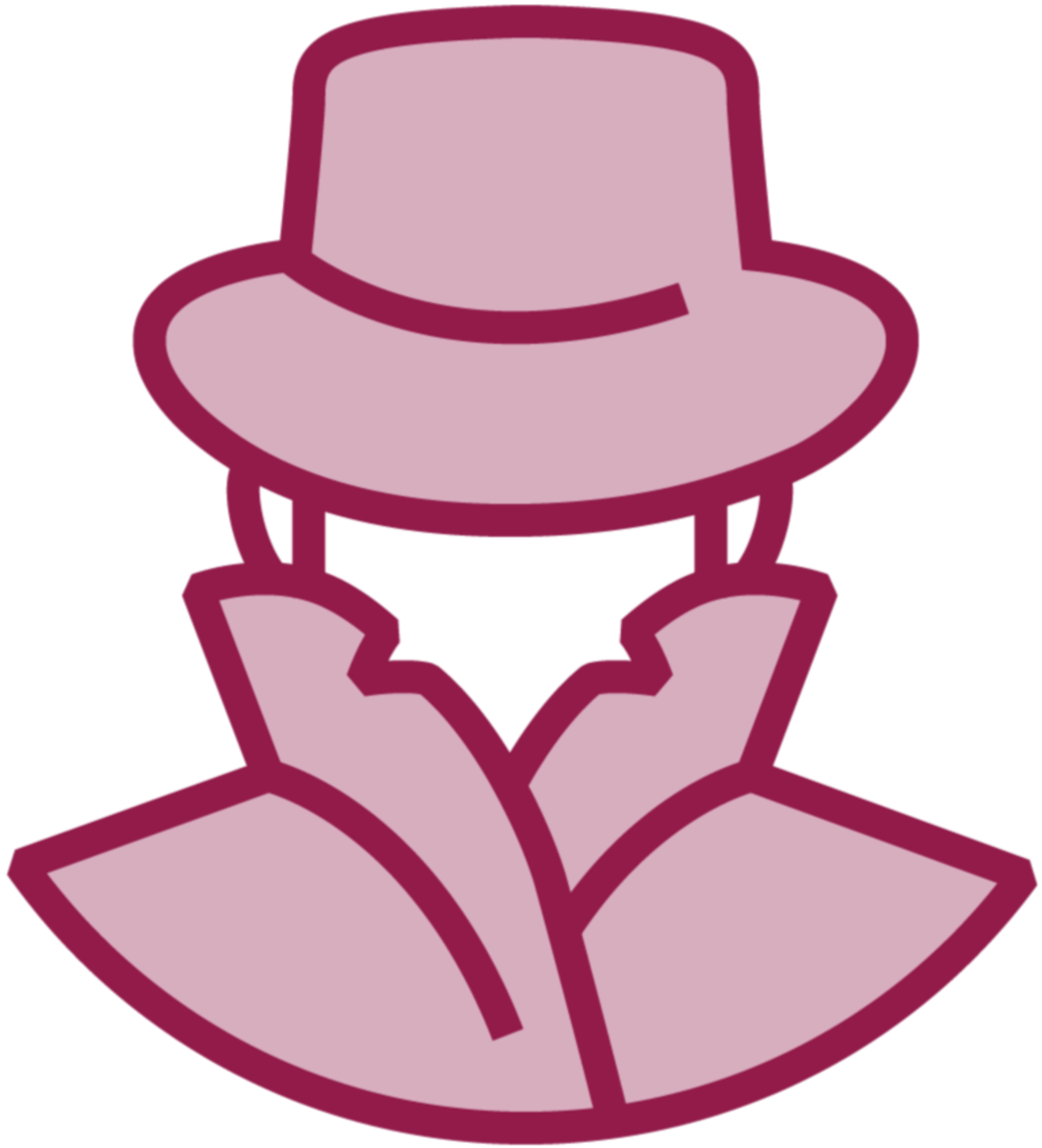

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Passcode lock the device

Avoid sideloading apps

Disable Javascript and add-ons from your web browser

Avoid storing sensitive data on the device

Change the default root password

Configure ‘find my phone’ to wipe the device if lost or stolen

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Update, update, update

Disable iCloud services

Enable ‘ask to join networks’

Enable erase data after 10 attempts

Turn off Siri

Turn off voice dial

And more...

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Learning Check

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Learning Check

- Untethered jailbreak
- Media layer
- Userland
- Boot ROM exploits
- Tethered jailbreak

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Up Next:
Outlining Mobile Device Management (MDM)

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