

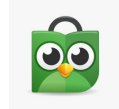

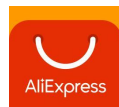







South East Asia by Shopping Apps Monthly Active Users

Top Shopping Apps of 2018: South East Asia Combined iPhone and Android Phone Monthly Active Users

| Rank | App Name | Parent Company | Headquarter |
|------|--|----------------|---------------|
| 1 |  Lazada | Alibaba Group | China |
| 2 |  Shopee | SEA | Singapore |
| 3 |  Tokopedia | Tokopedia | Indonesia |
| 4 |  Bukalapak - Jual Beli Online | Bukalapak.com | Indonesia |
| 5 |  AliExpress | Alibaba Group | China |
| 6 |  ZALORA | Zalora | Singapore |
| 7 |  OLX Indonesia | Naspers | South Africa |
| 8 |  Carousell | Carousell | Singapore |
| 9 |  Amazon | Amazon | United States |
| 10 |  eBay | eBay | United States |





South East Asia includes Indonesia, Malaysia, Singapore, Thailand, Philippines and Vietnam. Top Apps within Shopping categories on iOS And Google Play.

Apps are ranked by combined iPhone and Android phone average monthly active users (MAU) across 2018.

Pre-installed apps (such as YouTube on Android phone and Safari on iPhone) are excluded.

South East Asia by Mobile Wallet Apps Monthly Active Users






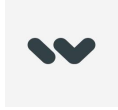
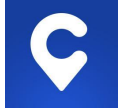



Top Mobile Wallet Apps of 2018: South East Asia Combined iPhone and Android Phone Monthly Active Users

| Rank | App Name | Parent Company | Headquarter |
|------|---|------------------------|---------------|
| 1 |  Wallet by Truemoney | True Corporation | Thailand |
| 2 |  OVO | Visionet Internasional | Indonesia |
| 3 |  TCASH Wallet | Telkom Indonesia | Indonesia |
| 4 |  Ví MoMo | M_SERVICE | Vietnam |
| 5 |  GCash | Globe Telecom | Philippines |
| 6 |  PayPal | PayPal | United States |
| 7 |  AirPay | SEA | Singapore |
| 8 |  PayMaya | PLDT | Philippines |
| 9 |  Coins.ph | Coins Asia | Philippines |
| 10 |  DBS PayLah | DBS Bank | Singapore |

South East Asia includes Indonesia, Malaysia, Singapore, Thailand, Philippines and Vietnam. Mobile Wallet apps are identified from Finance categories within iOS And Google Play. Apps are ranked by combined iPhone and Android phone average monthly active users (MAU) across 2018. Pre-installed apps (such as YouTube on Android phone and Safari on iPhone) are excluded.

South East Asia by Ride Booking Apps Monthly Active Users









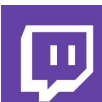
Top Ride Booking Apps of 2018: South East Asia Combined iPhone and Android Phone Monthly Active Users

| Rank | App Name | Parent Company | Headquarter |
|------|--|-------------------|---------------|
| 1 |  Grab | Grab | Singapore |
| 2 |  GO-JEK | GO-JEK | Indonesia |
| 3 |  Uber | Uber Technologies | United States |
| 4 |  My Blue Bird | Blue Bird | Indonesia |
| 5 |  GO-VIET | GO VIET | Vietnam |
| 6 |  WunderCar | WunderCar | Germany |
| 7 |  ComfortDelGro Taxi Booking | ComfortDelGro | Singapore |
| 8 |  Vinasun Taxi | VINASUN | Vietnam |
| 9 |  MyCar | QUp | United States |
| 10 |  MiCab | Micab | Philippines |

*South East Asia includes Indonesia, Malaysia, Singapore, Thailand, Philippines and Vietnam.
Ride Booking apps are identified from Travel, Travel & Local and Maps & Navigation categories within iOS And Google Play.
Apps are ranked by combined iPhone and Android phone average monthly active users (MAU) across 2018.
Pre-installed apps (such as YouTube on Android phone and Safari on iPhone) are excluded.*

South East Asia by Video Streaming Apps Monthly Active Users

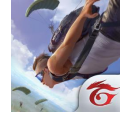

Top Video Streaming Apps of 2018: South East Asia Combined iPhone and Android Phone Monthly Active Users

| Rank | App Name | Parent Company | Headquarter |
|------|--|-----------------------|---------------|
| 1 |  YouTube | Google | United States |
| 2 |  Netflix | Netflix | United States |
| 3 |  YouTube Go | Google | United States |
| 4 |  LINE TV | LINE | Japan |
| 5 |  iflix | iflix | Malaysia |
| 6 |  HOOQ | HOOQ DIGITAL | Singapore |
| 7 |  Viu | PCCW | Hong Kong |
| 8 |  AIS PLAY | Advanced Info Service | Thailand |
| 9 |  iWant TV | ABS-CBN | Philippines |
| 10 |  Twitch | Amazon | United States |

*Video Streaming apps are identified from Entertainment, Video Players & Editors, and Photo & Video categories within iOS And Google Play.
Apps are ranked by combined iPhone and Android phone average monthly active users (MAU) across 2018.*

South East Asia by Games Monthly Active Users

Top Games of 2018: South East Asia Combined iPhone and Android Phone Monthly Active Users

| Rank | App Name | Parent Company | Headquarter |
|------|--|---------------------|---------------|
| 1 |  Mobile Legends: Bang bang | Moonton | China |
| 2 |  Arena of Valor | SEA | Singapore |
| 3 |  PUBG MOBILE | Tencent | China |
| 4 |  Candy Crush Saga | Activision Blizzard | United States |
| 5 |  Clash of Clans | Supercell | Finland |
| 6 |  Free Fire | SEA | Singapore |
| 7 |  Helix Jump | Voodoo | France |
| 8 |  Wordscapes | PeopleFun | United States |
| 9 |  Pokémon GO | Niantic | United States |
| 10 |  Minecraft Pocket Edition | Microsoft | United States |

*South East Asia includes Indonesia, Malaysia, Singapore, Thailand, Philippines and Vietnam.
Apps are ranked by combined iPhone and Android phone average monthly active users (MAU) across 2018.
Pre-installed apps (such as YouTube on Android phone and Safari on iPhone) are excluded.*