

Spotify and Python

Love at first sight

Jon Åslund
@jooon

Who am I?

Jon Åslund



Computer Science



Shakespeare Programming Language

Joined Spotify
Autumn 2006

April 2006
the idea

Spotify™



Spotify™



*“music itself is going to
become like running
water or electricity”*

David Bowie, 2002

Spotify premium

Search

rasmus +

What's new Top lists Feed People

What's new

- Radio
- Play queue
- Inbox 1
- Library
- Starred
- Local files
- Purchases
- Playlists

You!

- Found
- Make Me Happy
- Joyful evening
- Jogg
- Sleep

DFA remixes

- Noncollective
- Pettibone

Share

What's new? More

- Do-Wah-Doo** Kate Nash
- Zebra** Beach House
- Fembot** Robyn
- I Feel Better** Hot Chip
- Red Revelations** Jace Everett
- Yours Sincerely** Anna Bergendahl
- Best Of James Bond** Royal Philharmonic Orch...
- Liquid Confidence (Not...)** You Me At Six

Feed

Music shared by your friends on Facebook.

- Oskar Leijon:** hedrar Guru med en liten nostalgilyssning 17 minutes ago
 - Jazzmatazz Volume 1** An album by **Guru**
- Joachim Bengtsson:** Obliterates ears and bugs alike. 32 minutes ago
 - Basic Understanding** An album by **Felix Kröcher**
- Spotify:** Also available today for Spotify Premium users in Norway and Sweden - the new Johnossi album, Mavericks, now available. 41 minutes ago

People

- Rasmus Andersson You
- Anders Bond
- Andreas Blixt
- Andreas Liffgarden
- Andreas Öman
- Andres Sehr
- Carl Waldekranz
- Carl-Axel Larsen
- Cecilia Vigil
- Daniel Ek
- Erik Bernhardsson
- Erik Hammar
- Felix Ek Johansson
- Gustav Soderstrom
- Göran Sander
- Jenny Hermanson
- Jim Butcher
- Joachim Bengtsson
- Johan Leijonhufvud
- John Novatnack
- Jon Åslund
- Jonatan Litke
- Jonathan Forster
- Kaj Drobin
- Kajsa Lisa Wallin
- Kenneth Parks
- Kristin Wiktorson
- Luca Sousa Lobo Öhman
- Iudde
- Magnus Hult
- Magnus Forsell

Online





Spotify



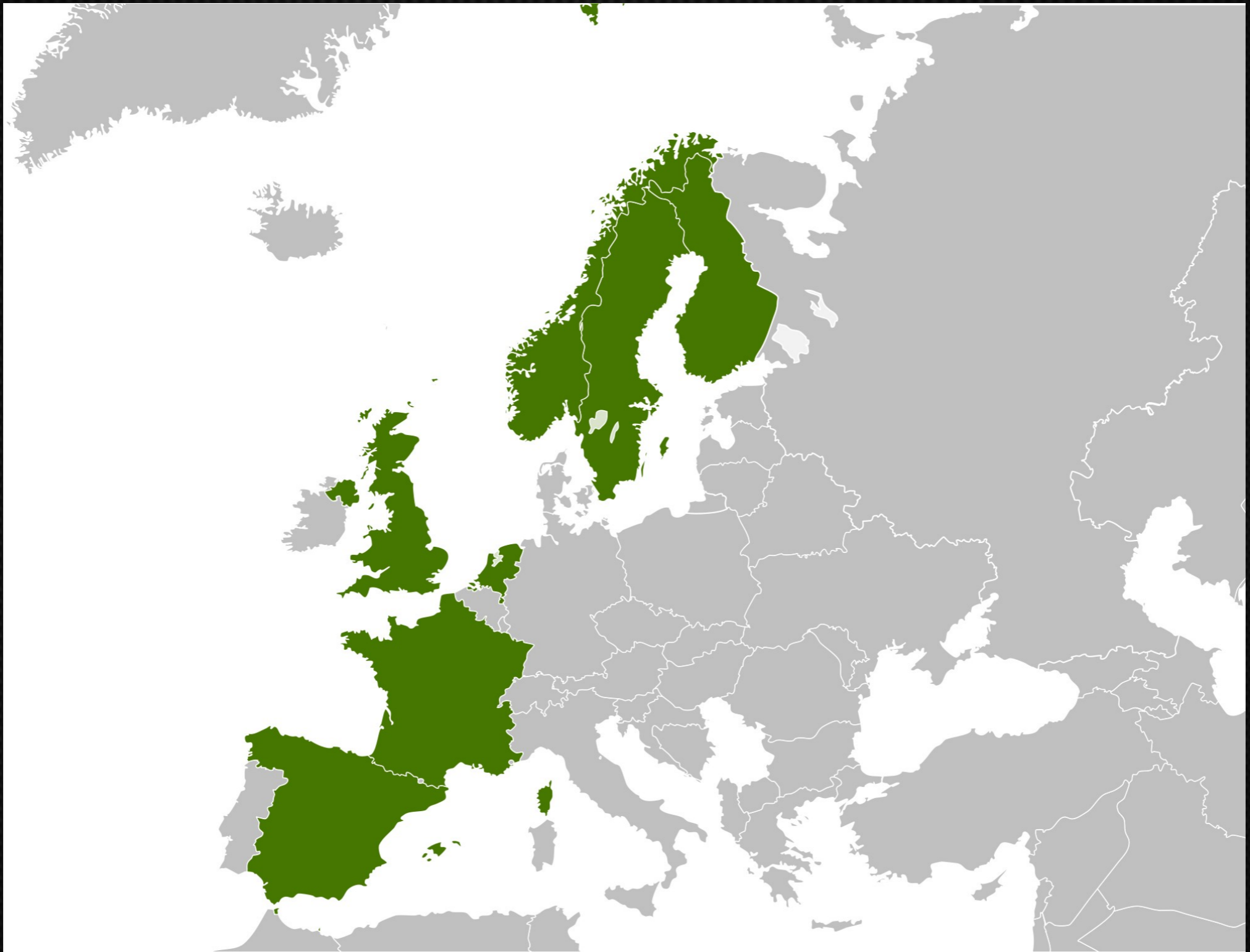


Spotify Box – Jordi Parra @zenona

June 2011

10+ million users

1+ million paying



13+ million tracks

300+ employees

half in Stockholm

90+ in technology

600+ servers
in 3 countries

Python everywhere

Autumn 2006
the beginning

Spotify



PLAYING:

Bosse - fin låt

2:13



Sök

Sök

MITT
BIBLIOTEK

MÖDER-
BIBLIOTEK
TEKET

-
-
-
-
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-



Låtar & filer

Spellista

MER
REKLAM

REKLAM/Spoktar



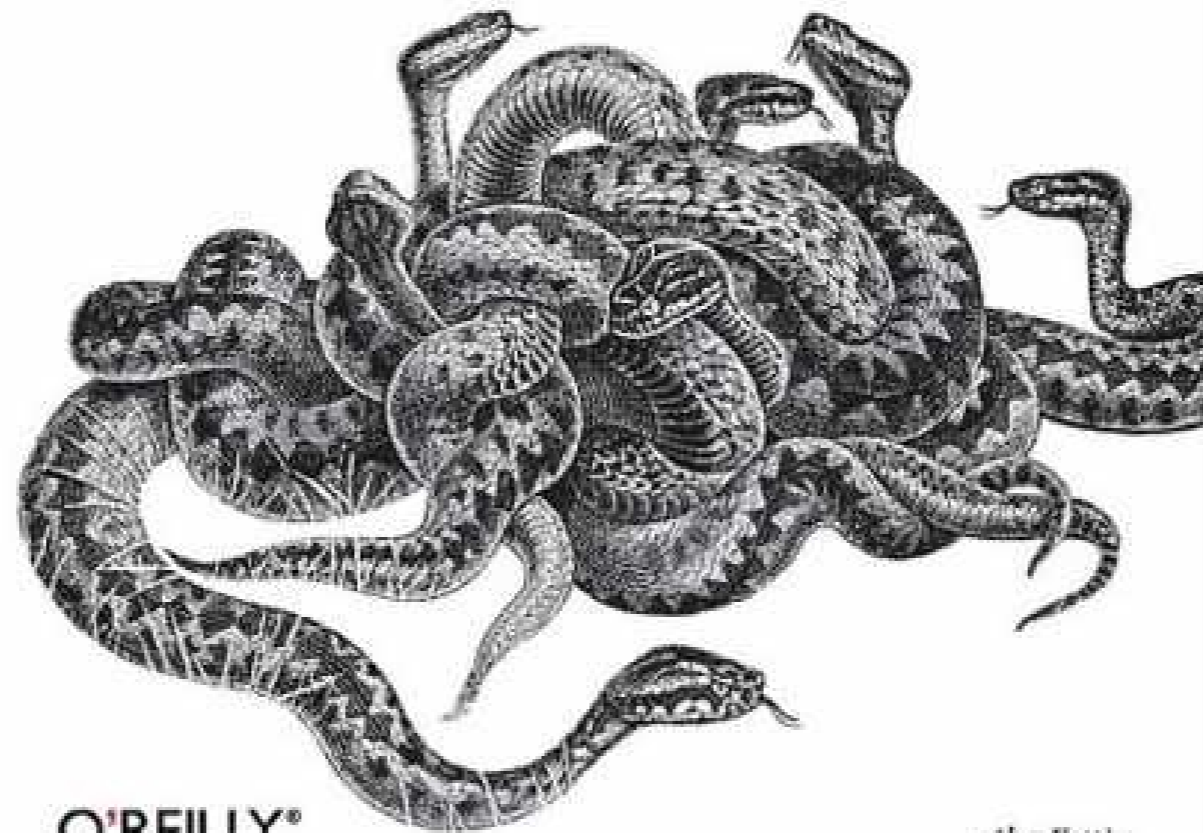
Getting the right tool for the job



Event-driven Network Programming with Python

Twisted

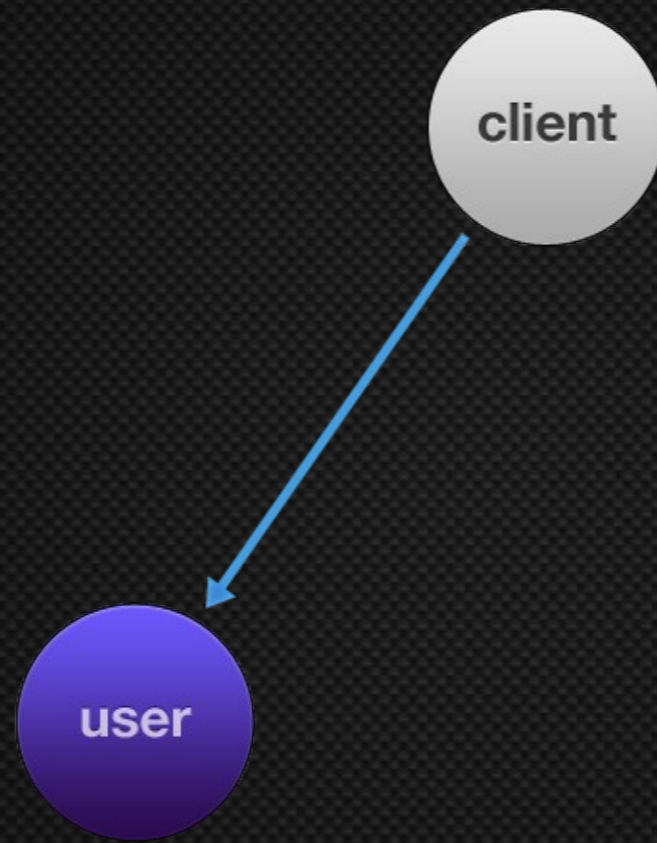
Network Programming Essentials

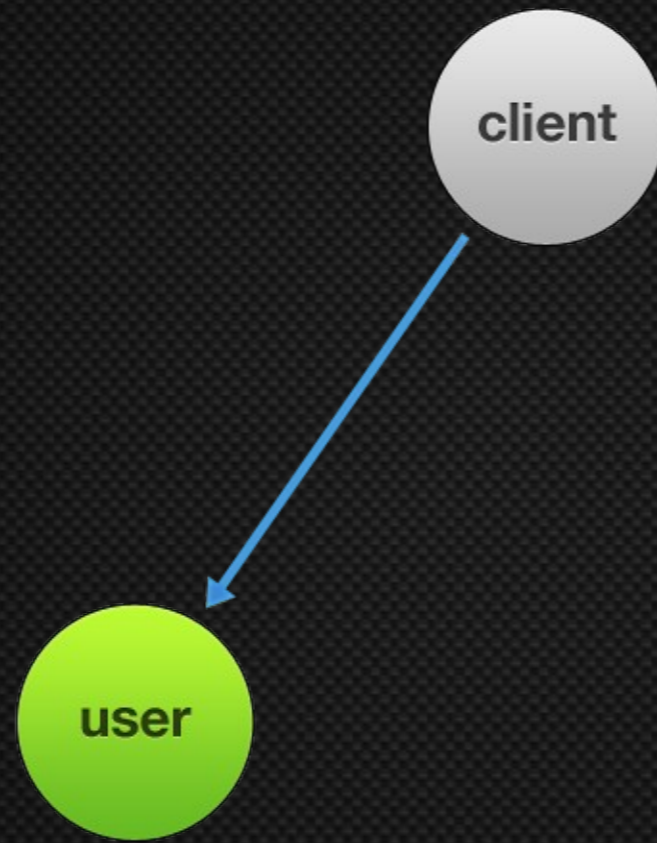


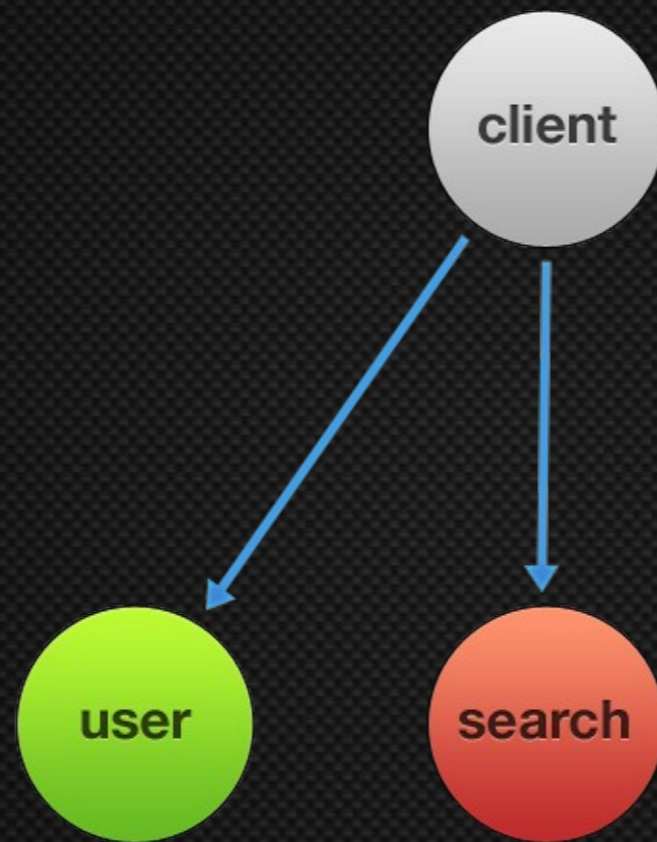
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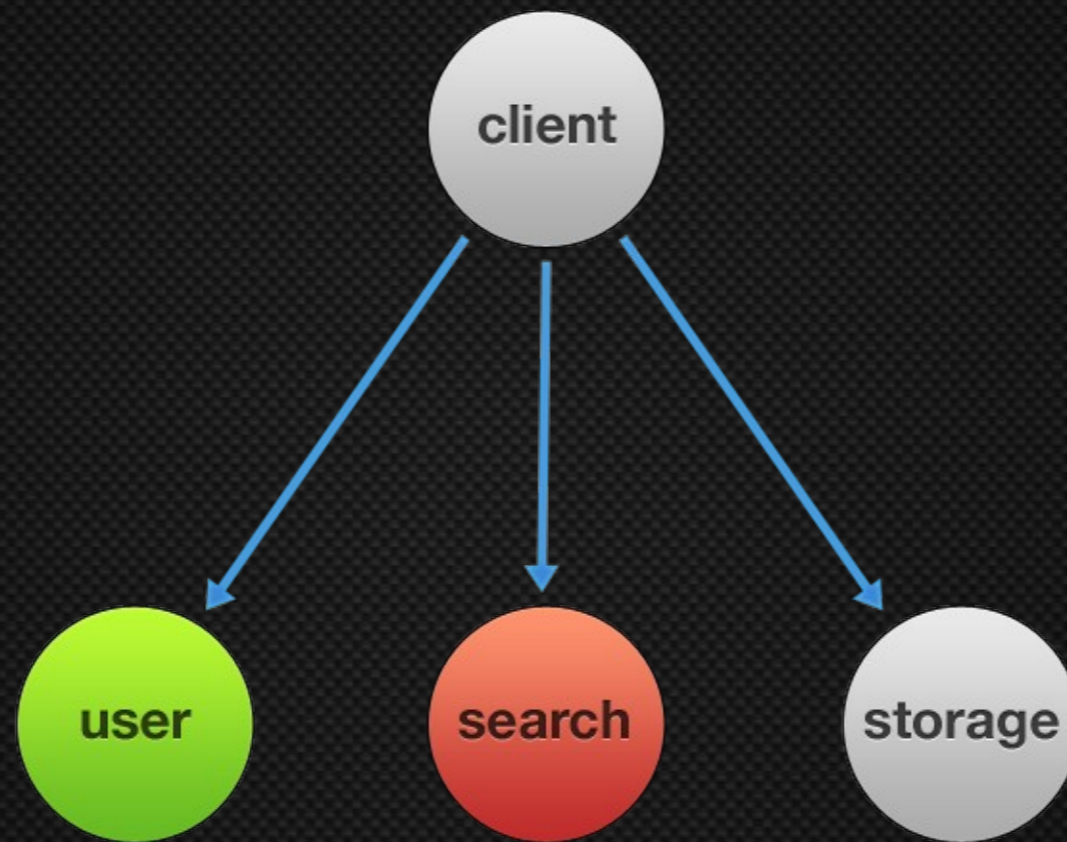
Abe Fettig

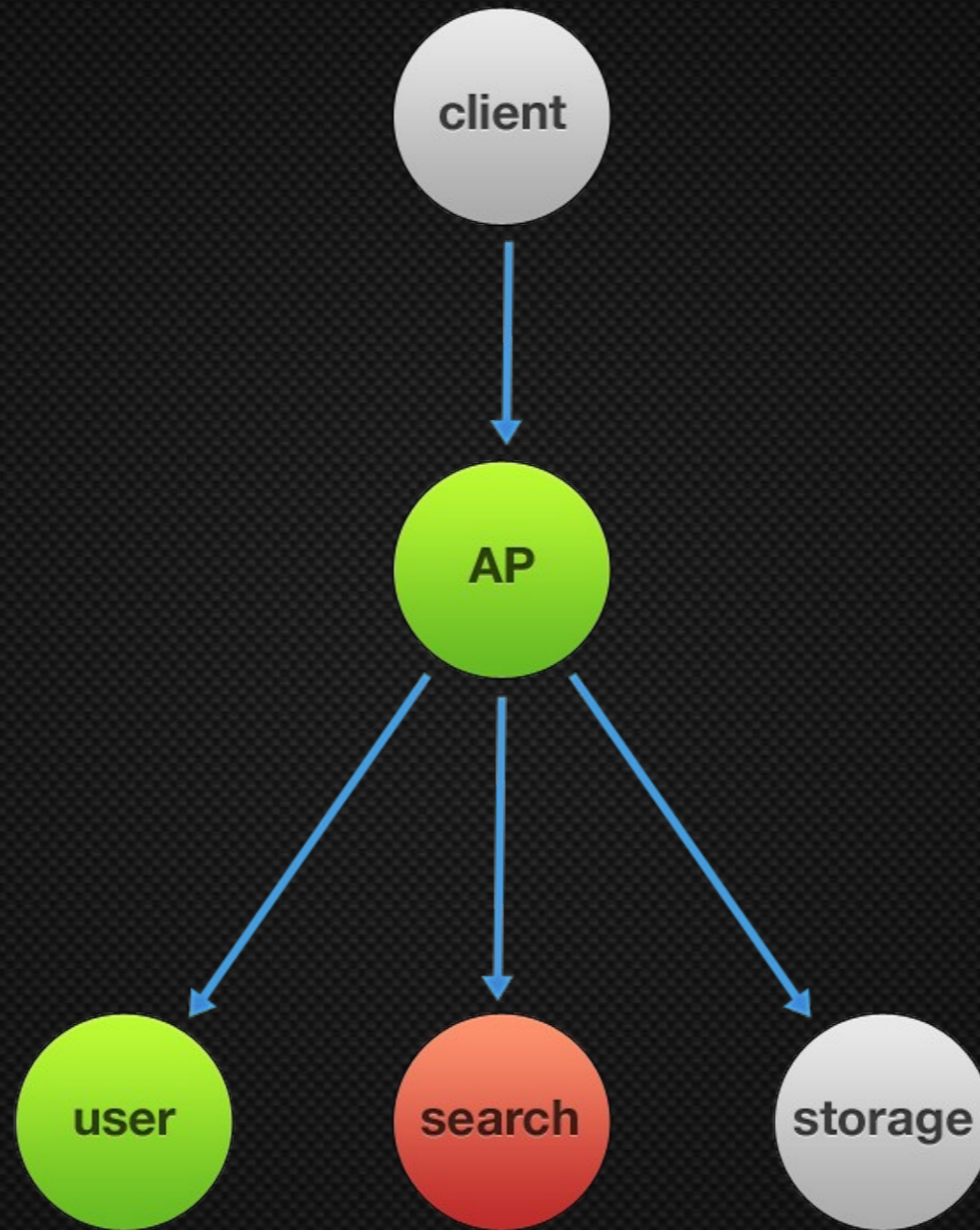


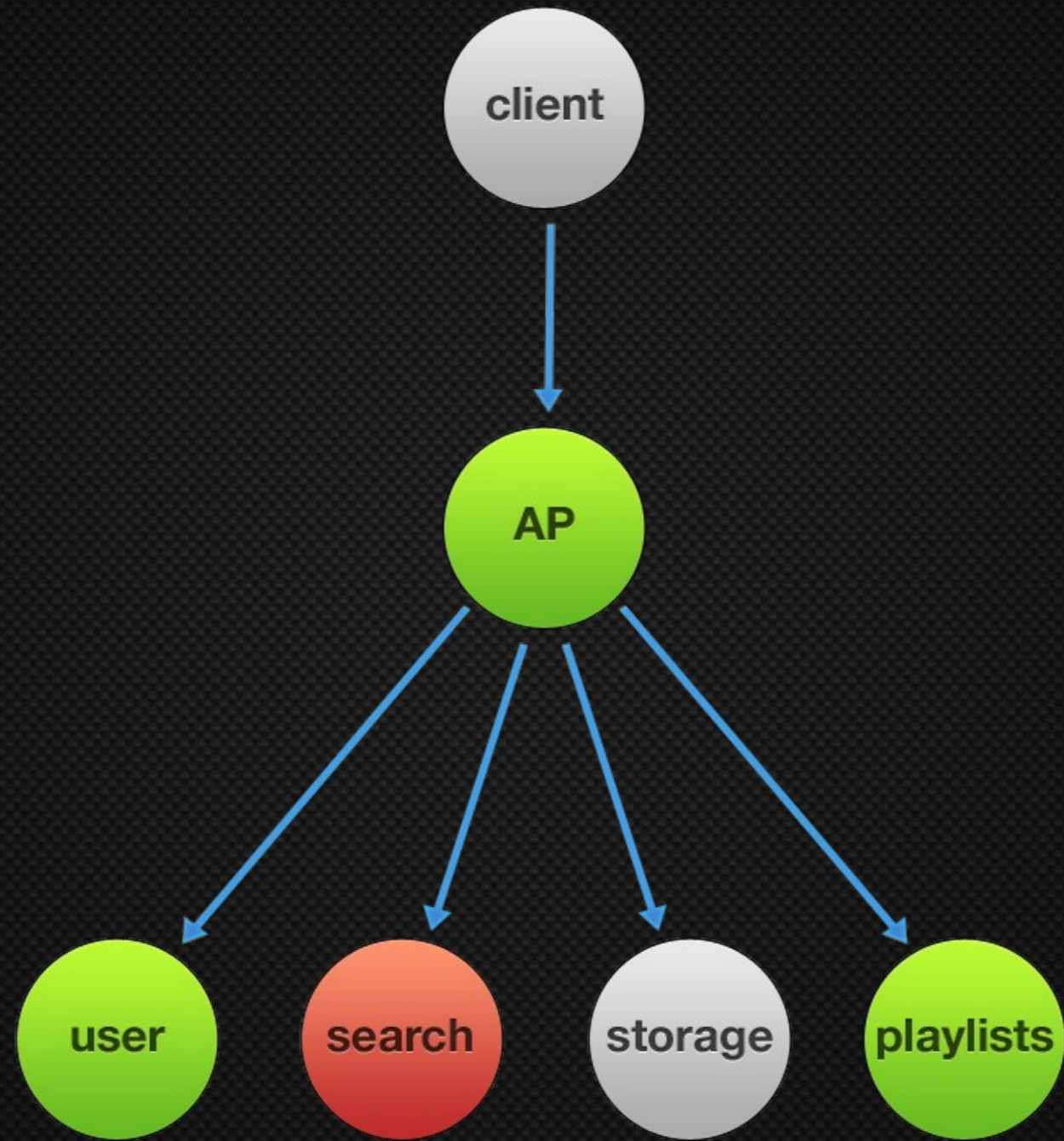


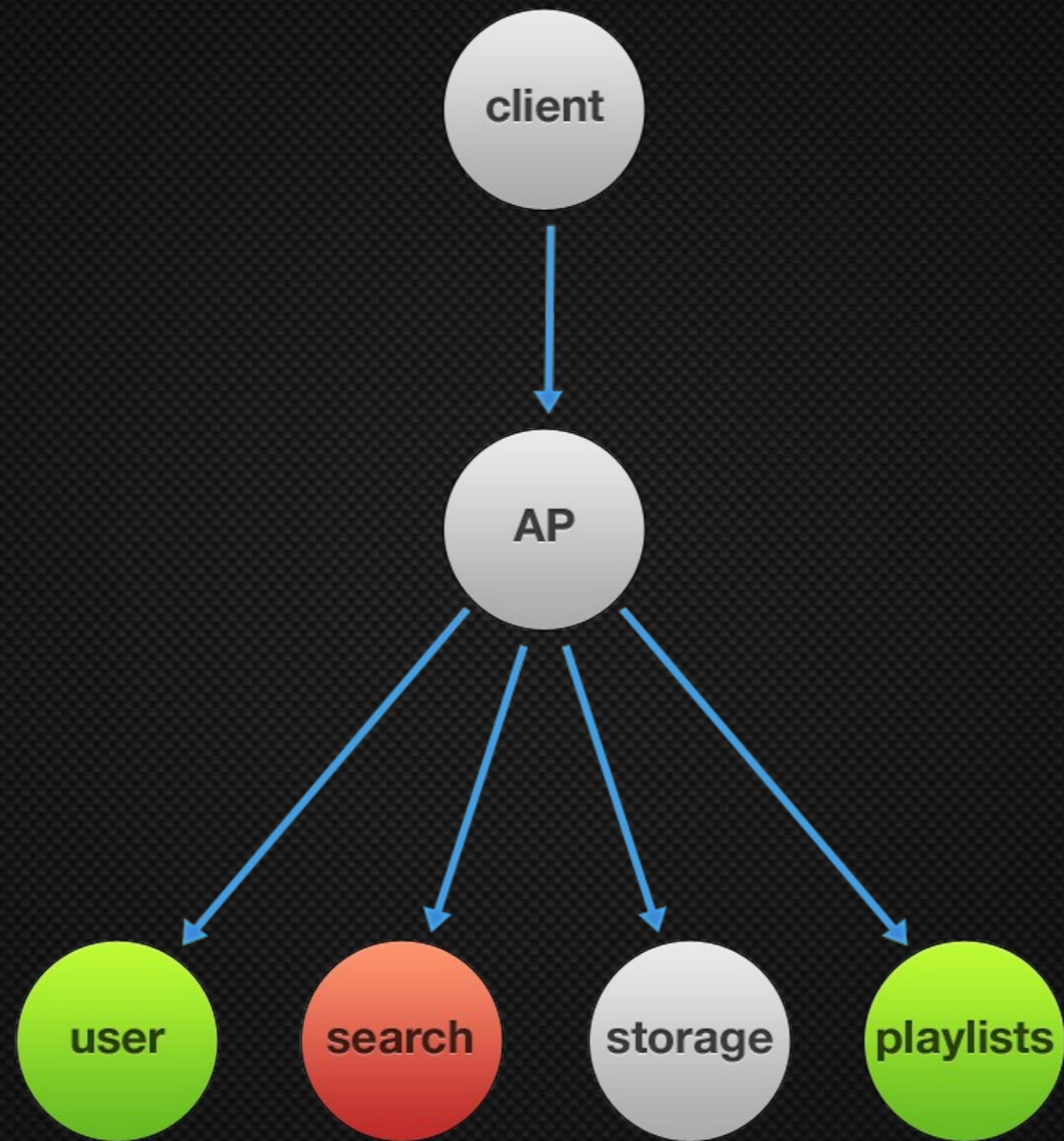


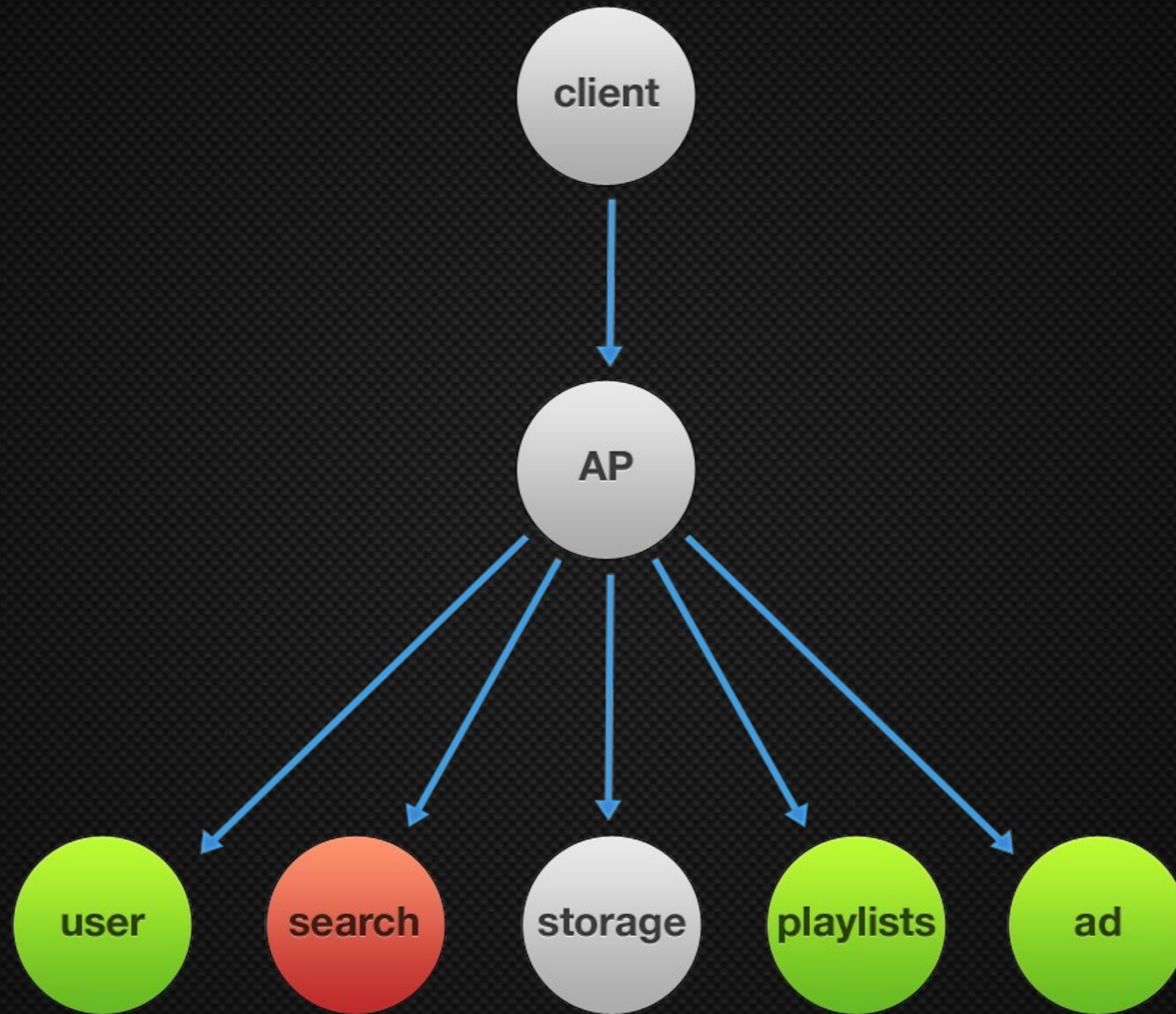


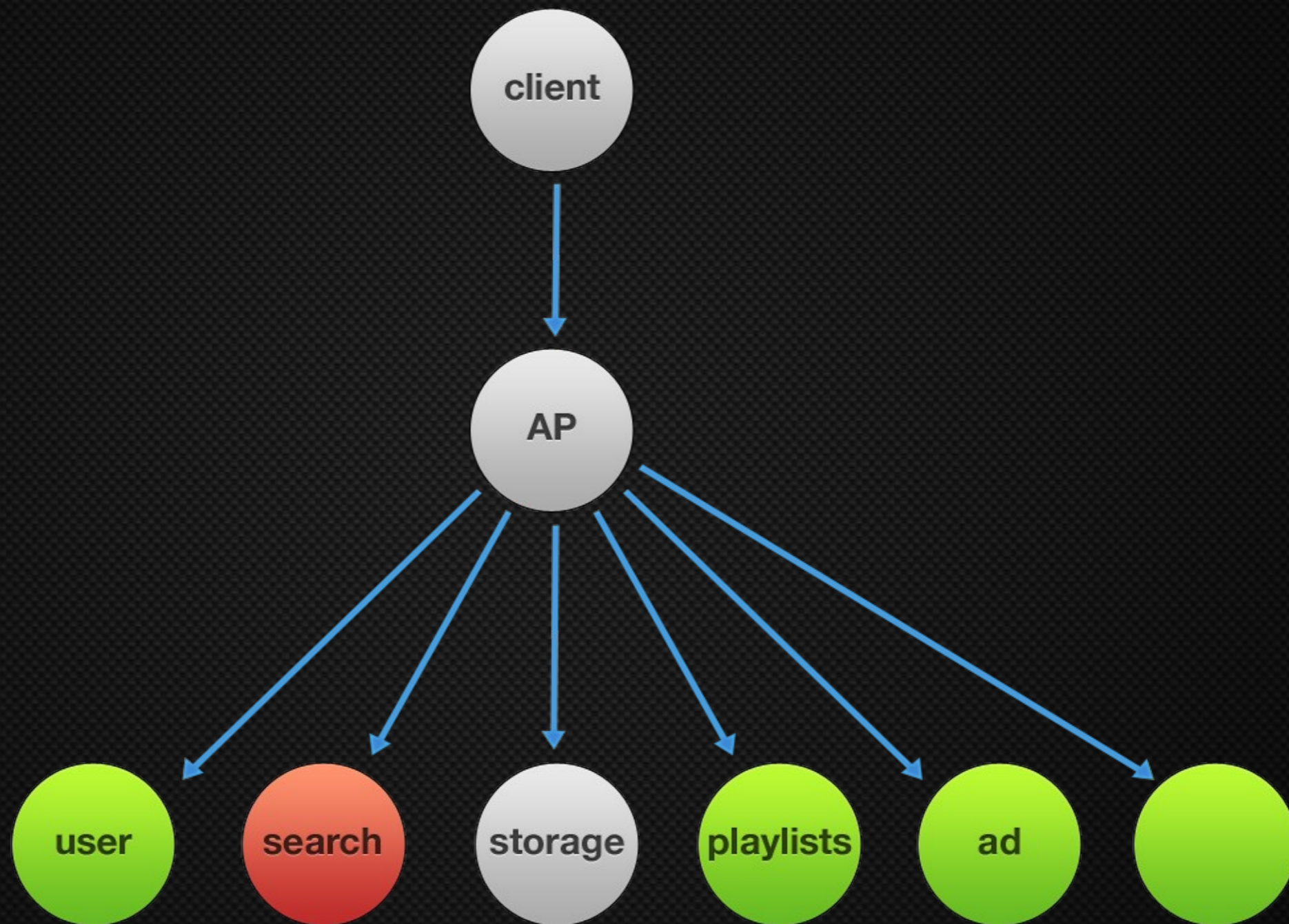


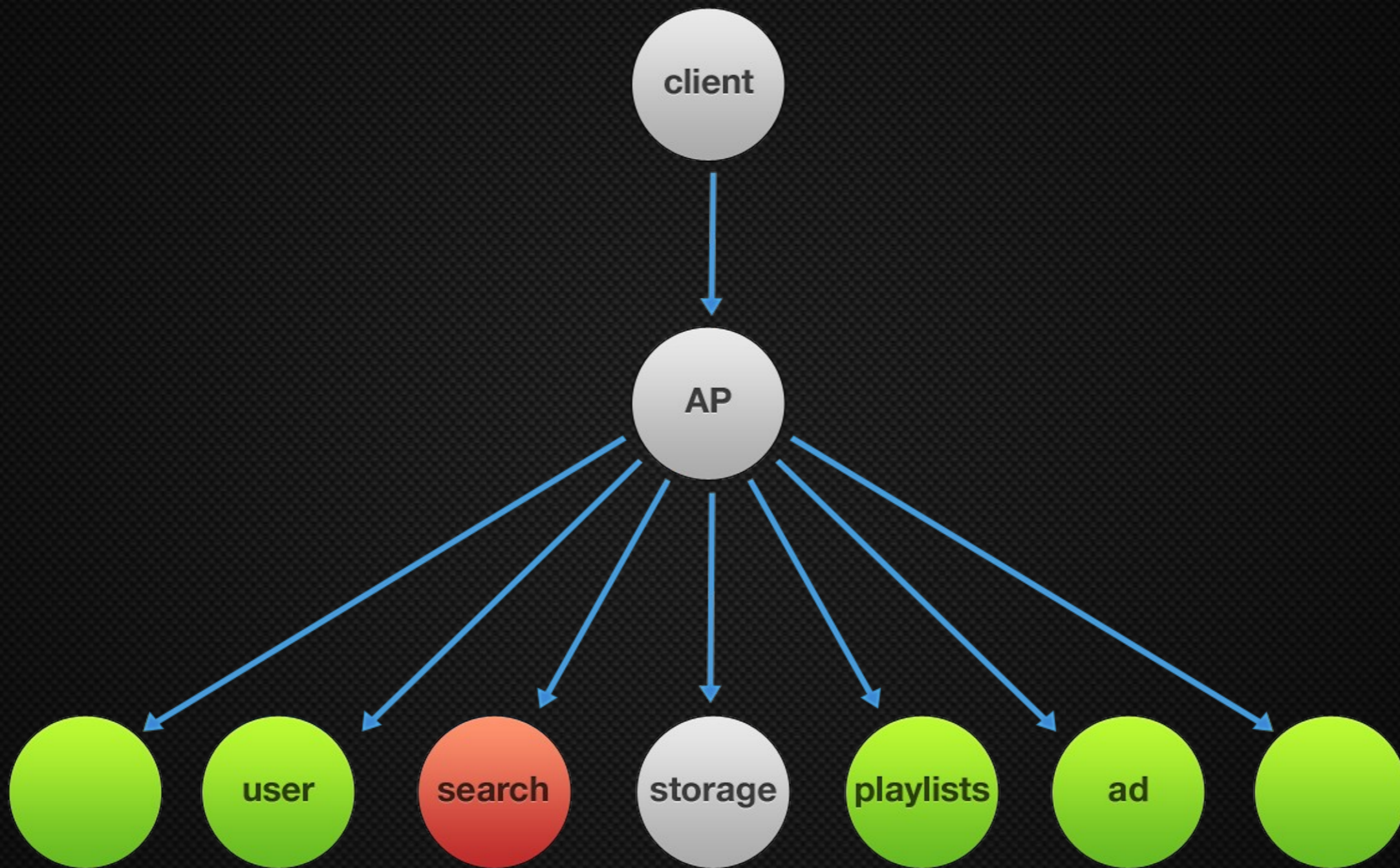


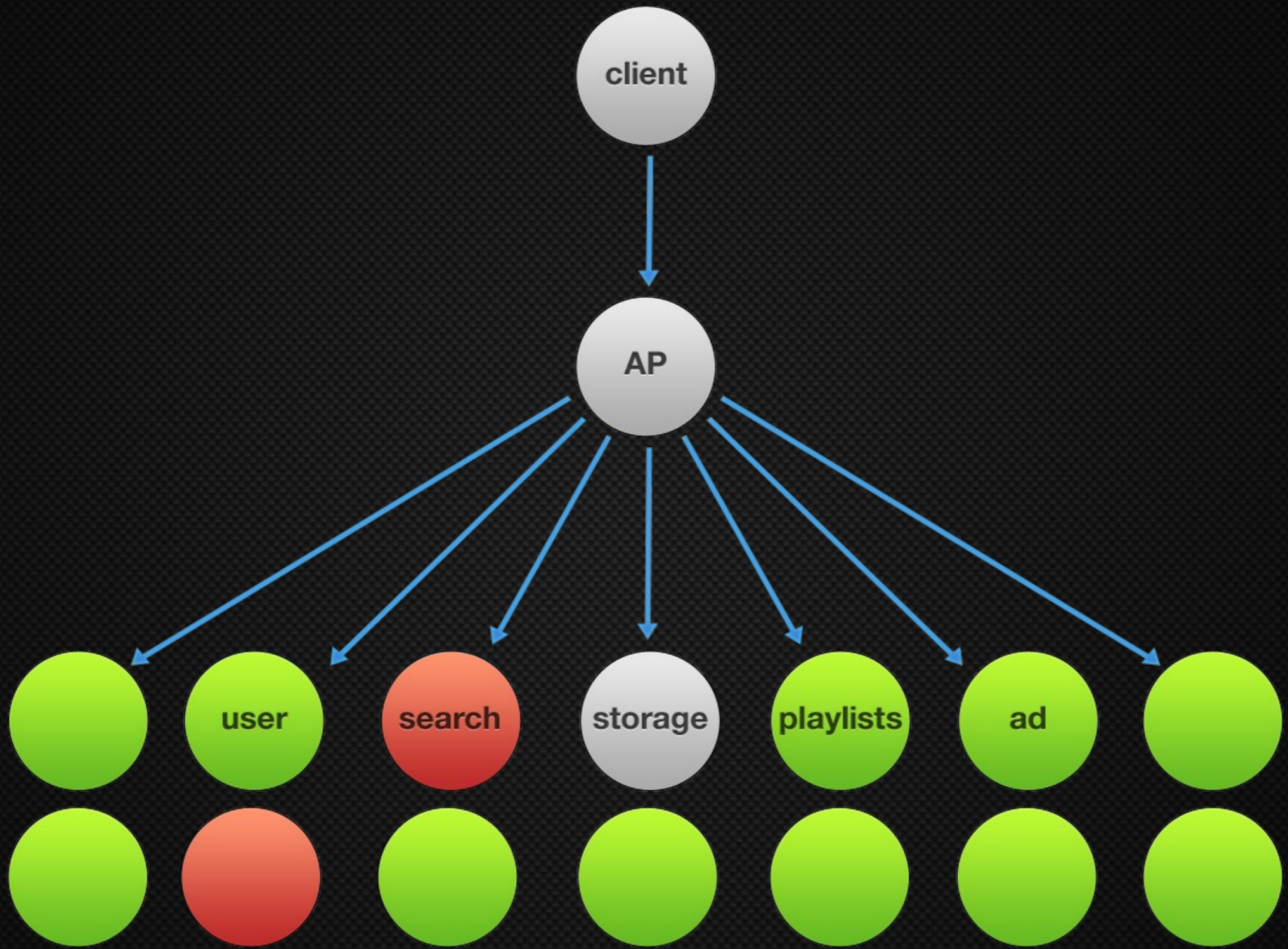


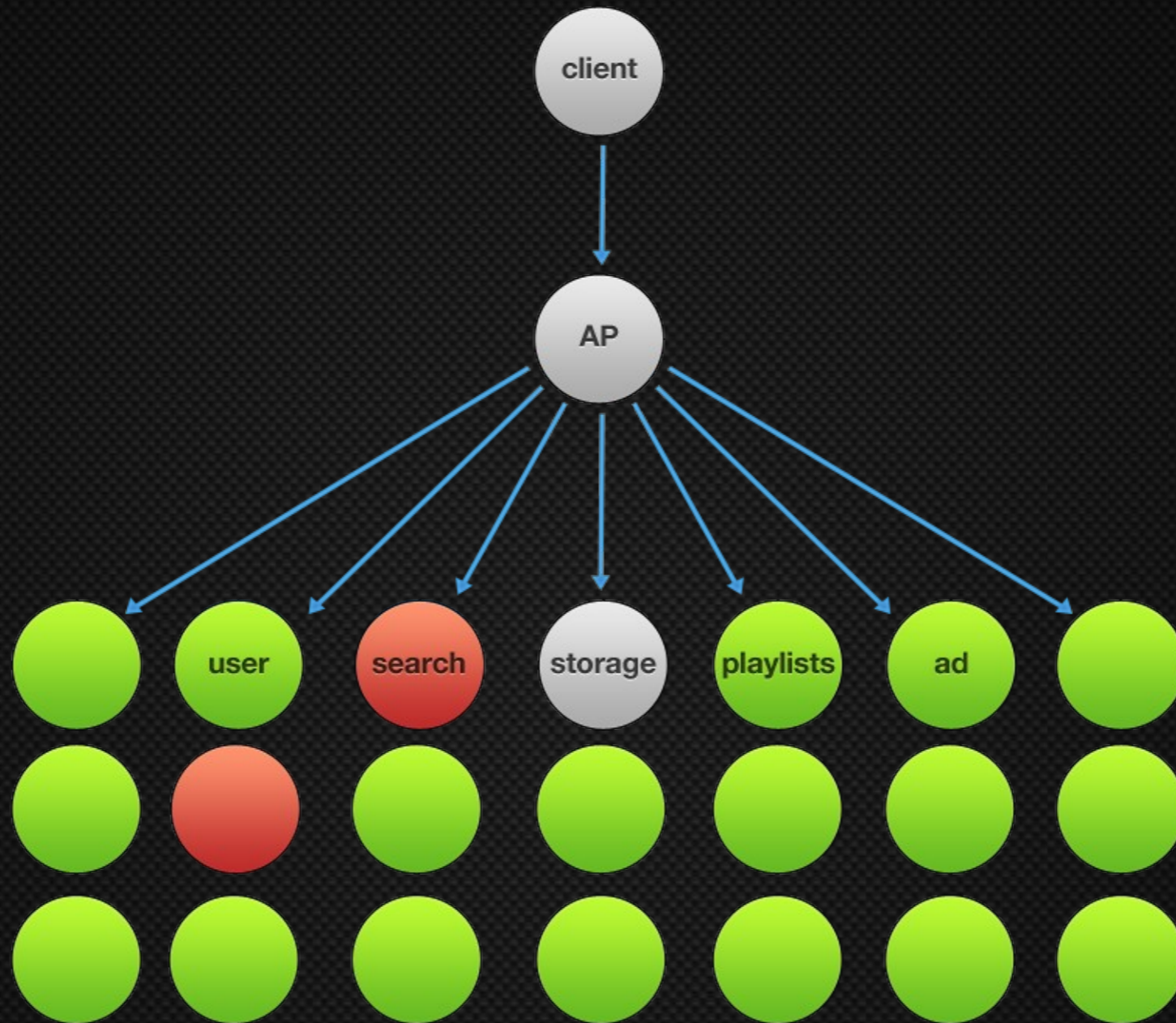












~ 20 core
services

~60 services
in total

What tools do we use?

twisted



gevent

turbogears

django



java

scala

C++

dns

json/xml
over http

thrift

zeromq

postgresql

tokyocabinet

cdb

memcache

cassandra

hadoop

git

debian

puppet

future problems

thank you