

The End of The Google Era?

Thinking about the next generation of search.

Bluesky: TomAnthony





Search the web using Google

Google Search

I'm feeling lucky

1999



Web [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

Google Search

I'm Feeling Lucky

[Advanced Search](#)
[Preferences](#)
[Language Tools](#)

2004

Google™

[Advanced Search](#)

[Language Tools](#)

Google Search

I'm Feeling Lucky

2009

Google

[Advanced search](#)
[Language tools](#)

Google Search

I'm Feeling Lucky

2014

Google

Google Search

I'm Feeling Lucky

2019

Google

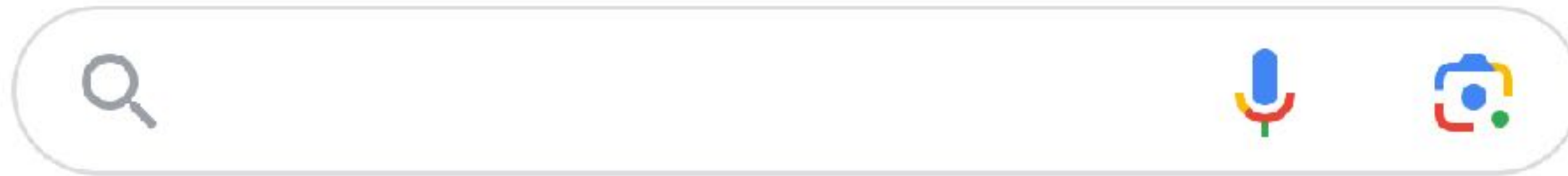


Google Search

I'm Feeling Lucky

2024

Google



2024
On Mobile

Google

Search



2024
Mobile App

Google



Google Search

I'm Feeling Lucky

2024



Search the web using Google

Google Search

I'm feeling lucky

1999



Google's Primary Interface Is Over **25 Years Old**

It has **dominated** search
during that time.



Our **Mental Model** of What a **Search Engine** is **Out of Date...**

...but like **fax**,
it'll take years for the shift.





The
Google Era





The
Google Era



5 Years Ago:
LLMs





The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic





The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways

1

The Google Era

1999–2025: Web Search Dominates



A Typical Google Search



smx munich agenda



All

Images

News

Short videos

Videos

Products

Web

More ▾

Search English pages ▾

Any time ▾

All results ▾

Advanced Search

Clear



SMX Munich

<https://smxmuenchen.de/agenda> ⋮

Agenda - SMX Munich 2025

Agenda - SMX Munich. **18th & 19th March, 2025**. ICM - International Congress Center Munich. Up to 7 parallel tracks covering topics such as SEO, PPC, Content ...



SMX Munich

<https://smxmuenchen.de/...> ⋮

Search Marketing Expo – SMX Munich

SEO + PPC = SMX. Europe's largest Search Marketing Conference for Professionals. **18th & 19th**



A Typical Google Search



smx munich agenda



All

Images

News

Short videos

Videos

Products

Web

More ▾

Search English pages ▾

Any time ▾

All results ▾

Advanced Search

Clear



SMX Munich

<https://smxmuenchen.de/agenda> ⋮

Agenda - SMX Munich 2025

Agenda - SMX Munich. 18th & 19th March, 2025. ICM - International Congress Center Munich. Up to 7 parallel tracks covering topics such as SEO, PPC, Content ...



SMX Munich

<https://smxmuenchen.de/...> ⋮

Search Marketing Expo – SMX Munich

SEO + PPC = SMX. Europe's largest Search Marketing Conference for Professionals. 18th & 19th

1-4
keywords



A Typical Google Search



smx munich agenda



All

Images

News

Short videos

Videos

Products

Web

More ▾

Search English pages ▾

Any time ▾

All results ▾

Advanced Search

Clear



SMX Munich

<https://smxmuenchen.de/agenda> ⋮

Agenda - SMX Munich 2025

Agenda - SMX Munich. 18th & 19th March, 2025 ICM - International Co parallel tracks covering topics such as SEO, PPC, Content ...



SMX Munich

<https://smxmuenchen.de/...> ⋮

Search Marketing Expo – SMX Munich

SEO + PPC = SMX. Europe's largest Search Marketing Conference for Professionals. 18th & 19th

1-4
keywords

corpus is
the web



Single-Shot Search



smx munich agenda



All

Images

News

Short videos

Videos

Products

Web

More ▾

Search English pages ▾

Any time ▾

All results ▾

Advanced Search

Clear



SMX Munich

<https://smxmuenchen.de/agenda> ⋮

Agenda - SMX Munich 2025

Agenda - SMX Munich. 18th & 19th March, 2025. ICM - International parallel tracks covering topics such as SEO, PPC, Content ...



SMX Munich

<https://smxmuenchen.de/...> ⋮

Search Marketing Expo – SMX Munich

SEO + PPC = SMX. Europe's largest Search Marketing Conference for Professionals. 18th & 19th

Yes! This is
what I needed.



Most searches are not single-shot...



Holiday Villas in Europe



Google Search

I'm Feeling Lucky



Most searches are not single-shot...

Only some of
my criteria



Google Search

I'm Feeling Lucky



Google search flow...

1. Do search on **Google**.

2.

3.

4.



Google search flow...

1. Do search on **Google**.

2. Search through results.

3.

4.

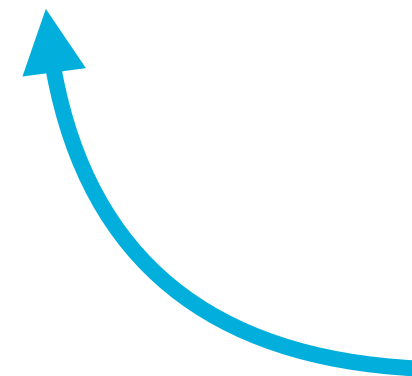


Google search flow...

1. Do search on **Google**.

2. Search through results.

3.



Second phase of
the same search.

4.



Post-Search Browsing

- 1.** Do search on **Google**.
- 2.** Search through results.
- 3.** Do follow-up search on **Google**.
- 4.**



Post-Search Browsing

- 1.** Do search on **Google**.
- 2.** Search through results.
- 3.** Do follow-up search on **Google**.
- 4.** Repeat.



What I wanted to do...



Show me holiday itineraries for a family of 5, with a toddler friendly pool and near the beach & some restaurants, in or near Europe.



Google Search

I'm Feeling Lucky



Bluesky: TomAnthony



I didn't trust Google to handle this...



Show me holiday itineraries for a family of 5, with a toddler friendly pool and near the beach & some restaurants, in or near Europe.



Google Search

I'm Feeling Lucky



Google Era

1.

2.

3.



1. Only **one corpus**: the web.

2.

3.



1. Only **one corpus**: the web.
2. Searches fulfilled **one query** at a time.
- 3.



1. Only **one corpus**: the web.
2. Searches fulfilled **one query** at a time.
3. Results are primarily **links to websites**.



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways

2

LLMs Are More Than Chat

LLMs diminish Google's search advantage.

> 5 years ago: GPT-3 released

June 11, 2020 Product

OpenAI API

We're releasing an API for accessing new AI models developed by OpenAI.

Sign up ↗

Explore the API >



LLMs Impact on Search Is More Than Chat

Impact understanding both
search queries & web content.



LLMs Eat Away at Google's Lead in Search

1. For **25 years** we've entered **1-4 keywords**.

2.



Typically: 1–4 Keywords

Google



Holiday Villas in Europe



Google Search

I'm Feeling Lucky



Google now trying to retrain us...



Villa holidays in Europe



All inclusive

With private pool

2023

Cheap

Luxury

Best

Images

With flights

Maps



Google now trying to retrain us...



Villa holidays in europe with private pool



× With private pool

2023

And swimming pool

Best

Cheap

Luxury

Images

Maps

Books



So Google not trained for this query...



Show me holiday itineraries for a family of 5, with a toddler friendly pool and near the beach & some restaurants, in or near Europe.



Google Search

I'm Feeling Lucky



LLMs understand the query much better..

ChatGPT 4o ▾

- **Hotel: Marriott's Marbella Beach Resort**

- Features: Toddler-friendly pools, direct beach access, kids' club, family suites.
- Location: Marbella, Spain

Itinerary:

Day 1: Arrival in Marbella

- Check into Marriott's Marbella Beach Resort
- Relax by the toddler-friendly pool
- Dinner at "El Lago," a nearby family-friendly restaurant

Day 2: Beach Day & Exploration

- Morning at the beach: Build sandcastles and enjoy shallow waters

...but have lacked the realtime data to answer.



LLMs Understand Complex Search Queries Better

Google's lead in understanding
search queries is diminished.



LLMs Eat Away at Google's Lead in Search

1. For 25 years we've entered 1-4 keywords.
2. **LLMs** compete with Google's **semantic models**.



Knowledge Graph



Alexander Bain fax



All

Images

Videos

Places

Places sites

News

Products

More

Tools

The first fax machine was invented by Scottish mechanic and inventor Alexander Bain. In 1843, Alexander Bain received a British patent for "improvements in producing and regulating electric currents and improvements in timepieces and in electric printing and signal telegraphs", in laymen's terms a fax machine. 20 Mar 2019



ThoughtCo

<https://www.thoughtco.com> > ... > Famous Inventions

Alexander Bain and the First Fax - ThoughtCo

About featured snippets • Feedback



Wikipedia

[https://en.wikipedia.org/wiki/Alexander_Bain_\(inventor\)](https://en.wikipedia.org/wiki/Alexander_Bain_(inventor))

Alexander Bain (inventor)

Bain worked on an experimental fax machine from 1843 to 1846. He used a clock to synchronise the movement of two pendulums for line-by-line scanning of a ...



People also ask

Who is the real inventor of the fax machine?



How did Alexander Bain invent the fax machine?



How did the 1843 fax machine work?



Alexander Bain

Inventor and engineer



Alexander Bain was a Scottish inventor and engineer who was first to invent and patent the electric clock. He installed the railway telegraph lines between Edinburgh and Glasgow. [Wikipedia](#)

Born

October 1810

Watten, United Kingdom

Died

2 Jan 1877

Kirkintilloch, United Kingdom

Born: October 1810, Watten, United Kingdom

Resting place: Auld Aisle Cemetery, Kirkintilloch, Scotland



Structured Markup



Apartment Zedna

Trogir in Split Region



```
"address": {  
  "@type": "PostalAddress",  
  "addressCountry": "HR",  
  "addressLocality": "Trogir",  
  "addressRegion": "Split",  
},  
"photo": "https://i.jamesvillas.co.uk/images/galleries/21splitregion/villas/photos/211e615c053c",  
"numberOfRooms": 3,  
"amenityFeature": {  
  "@type": "LocationFeatureSpecification",
```

schema.org has:

1,400

types

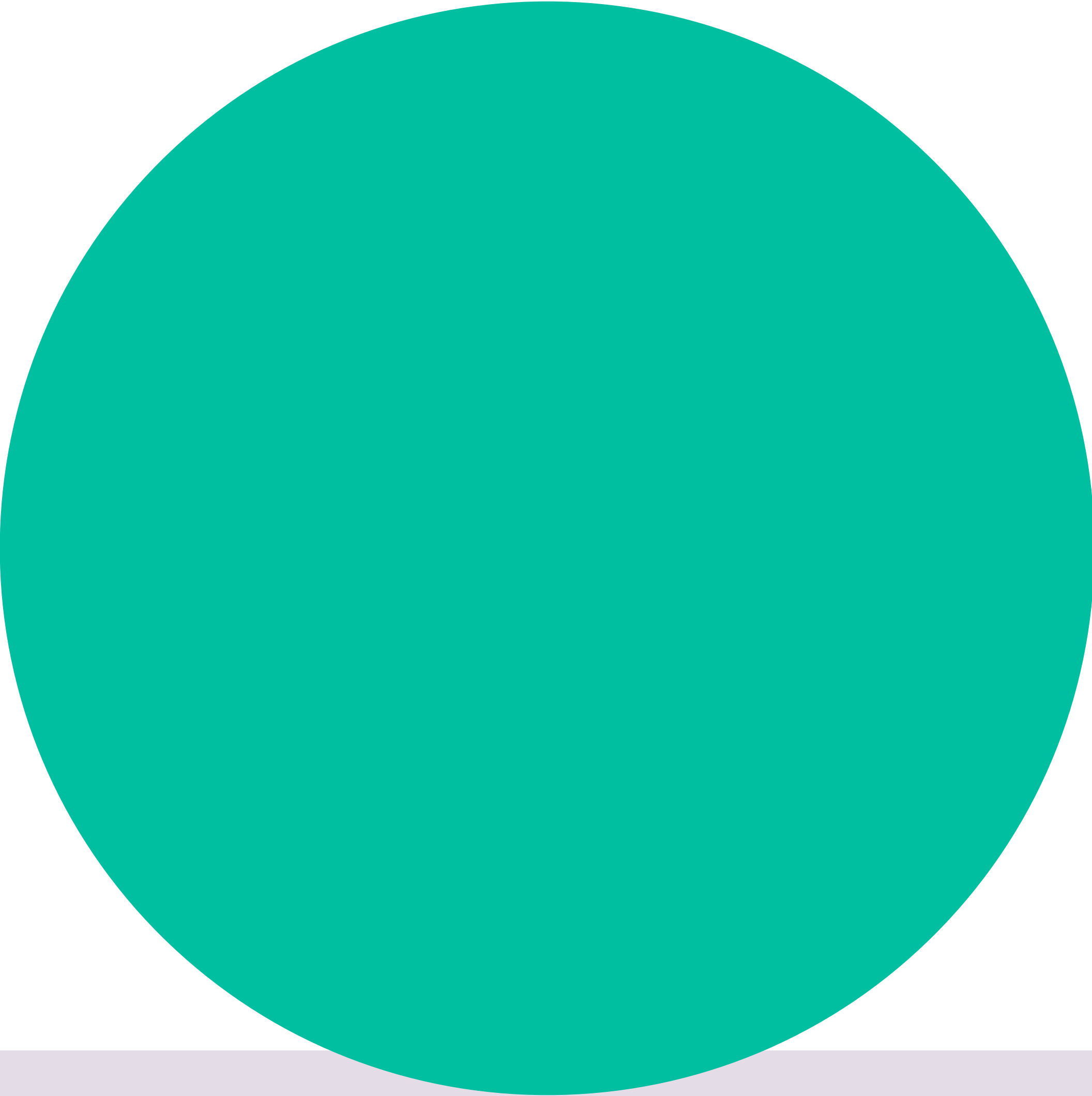
GPT4 has:

100,000,000,000

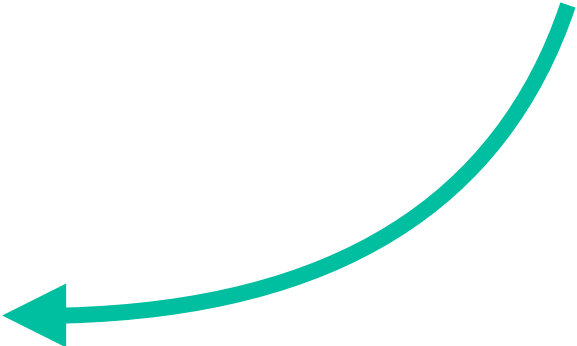
neurons



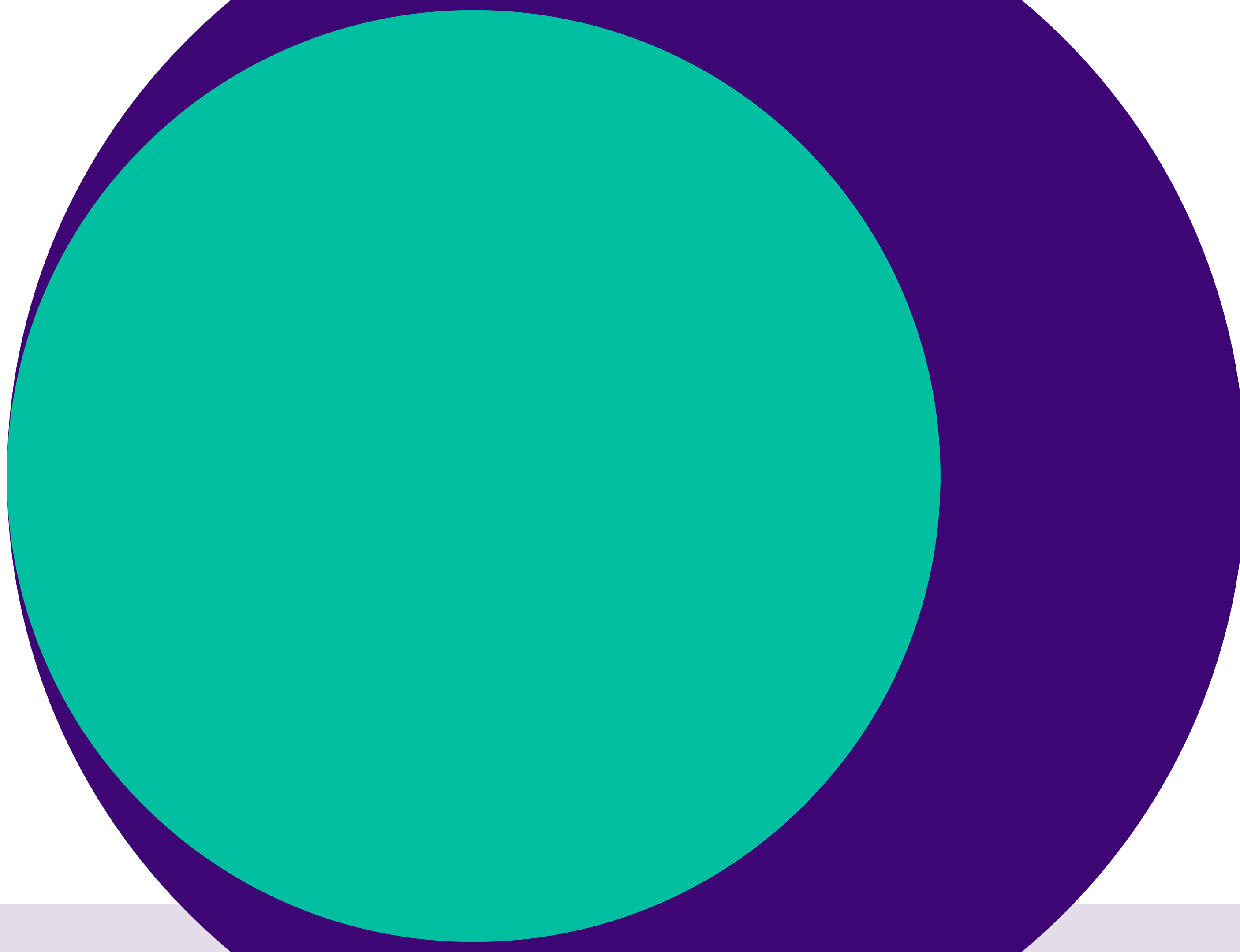
schema.org



GPT4



schema.org



O1



LLMs Excel at Semantic Understanding of Web Content

This has nothing to do with the
'generative' part of Generative AI.



Post-Search Browsing

- 1.** Do search on **Google**.
- 2.** Search through results.
- 3.** Do follow-up search on **Google**.
- 4.** Repeat.

February 2, 2025 Release

Introducing deep research

An agent that uses reasoning to synthesize large amounts of online information and complete multi-step research tasks for you. Available to Pro users today, Plus and Team next.

Try on ChatGPT ↗

In the last 3 months – ‘deep research’ has come onto the scene.



Deep Research

Show me holiday itineraries for a family of 5, with a toddler friendly pool and near the beach & some restaurants, in or near Europe.

That sounds like a great trip! Could you share a few more details so I can tailor the itinerary to your needs?

- Preferred countries or regions in or near Europe?
- Desired trip duration (e.g., a weekend, one week, two weeks)?
- Budget range (luxury, mid-range, budget)?
- Time of year you plan to travel?
- Any specific activities or attractions you'd like to include (e.g., water parks, cultural sites, nature excursions)?

Accommodation preferences (hotel, resort, villa, all-inclusive, etc.)?



Deep Research

Research completed in 9m · 21 sources

Family Beach & Culture Summer Itinerary (9 Days from Munich)



Deep Research




Research completed in 9m · 21 sources

Family Beach & Culture Summer Itinerary (9 Days from Munich)



Day 6: Splash Day at Istralandia Water Park

By Day 6, the kids (and kids-at-heart) will be eager for some high-energy fun – it's the perfect time to hit a **water park**! Drive about 1 hour north to **Aquapark Istralandia**, one of Croatia's best water parks. In fact, Istralandia has been ranked the "**second best water park in Europe**," known for its huge variety of slides and pools [ISTRA.HR](#). The park features **23 different slides** (from safe, small slides for little ones to big adrenalinic ones) and **the largest wave pool in this part of Europe** [ISTRA.HR](#). Pick your base. The 13-year-old splash zones – there are several – are a great place to start. Grab a nice spot with shade as your base. The 13-year-old splash zones – there are several – are a great place to start. Mom and Dad can join in the tube rides or float together in the lazy river. The park has lifeguards throughout, but always keep an eye on your 6-year-old, especially in wave pools. Around lunchtime, take a break at the on-site

 istra.hr

Istralandia Aquapark | Water parks in Istria

Experience a refreshing adventure at the second best water park in Europe and treat yourself and your family to a day of fun. Mom and Dad can join in



Search Paradigm Shift:

Move From **Iterative** Single-Step Queries to **Multi-Step**

This breaks the 'bots crawl'
and 'users browse' paradigm.



Search Paradigm Shift:

Search Results Are
Selected by the LLM.

Getting selected is more important
than where you rank!



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways

3

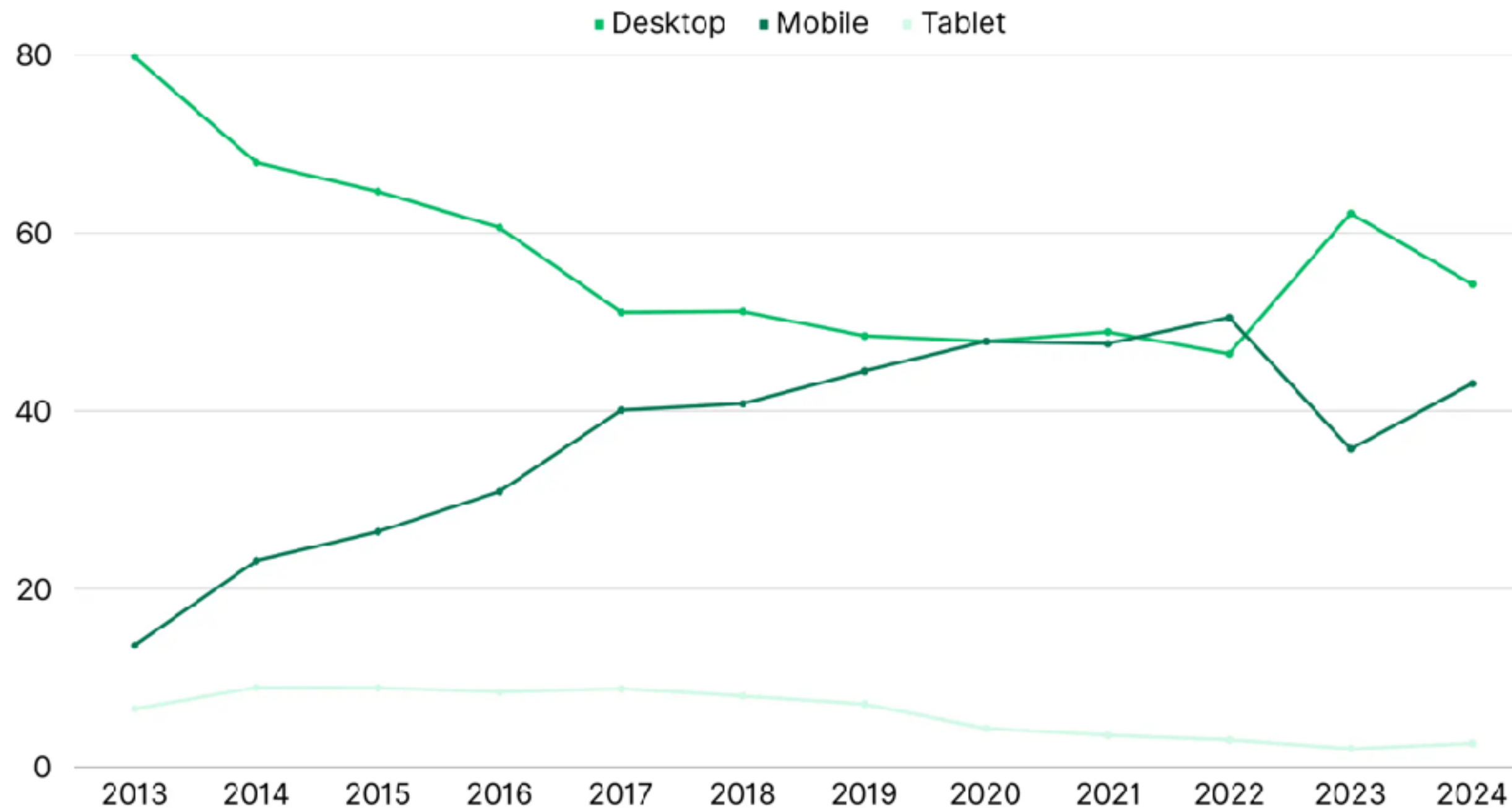
Apps Overtook the Web

Search should be where the traffic is.



5 years ago: Mobile overtook Desktop

US Internet Traffic Market Share: 2013-2024



Source: mobiloud.com

Bluesky: TomAnthony

> Google was born in this time...



Device



Browser



Web

Google
lives here



Device



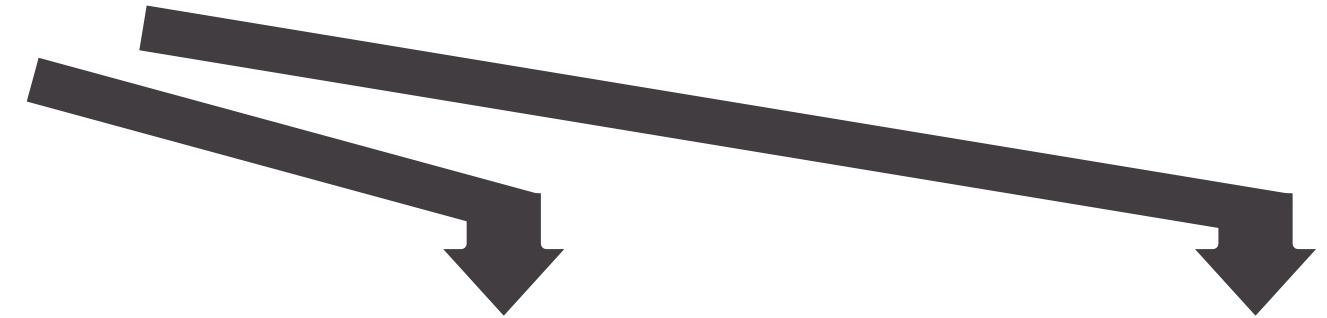
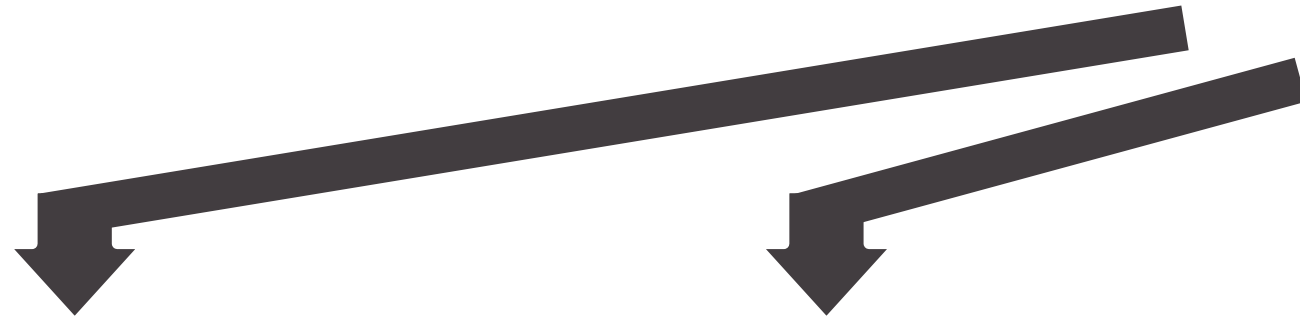
Browser



Web



Device



Recipe Keeper



Facebook



Browser



WhatsApp



Mail



Recipes



Social



Web



Messages



Emails

Search
belongs here



Device



Recipe Keeper



Facebook



Browser



WhatsApp



Mail



Recipes



Social



Web



Messages



Emails



'Google it'

Interest over time ?



Gen Alpha don't say 'Google it'



'Search it up'

Interest over time ⓘ



They say 'search it up'... They don't assume Google.



Mathilda, 13



Philippa, 10



Hetty, 6



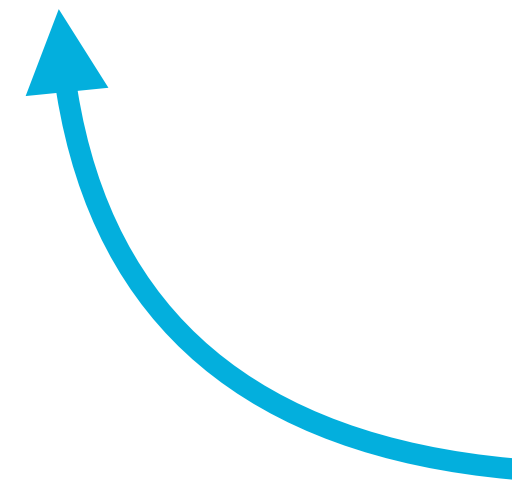
Mathilda, 13

- Doesn't say 'google it'!
- Uses ChatGPT a lot.
- Uses Google for online shopping.



Mathilda, 13

- Doesn't say 'google it'!
- Uses ChatGPT a lot.
- Uses Google for online shopping.



Already spending money
on your websites.



Hetty, 6

- Still learning to read, but...
- Searches regularly by voice.
- Uses Siri + Alexa



Hetty, 6

- Still learning to read, but...
- Searches regularly by voice.
- Uses Siri + Alexa

Will she ever revert to 'keywords' over natural language?



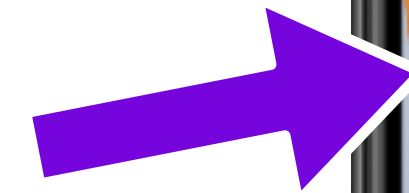
Philippa, 10



SMX Munich March 2022: Prediction

A home screen search field to change how people search.

Move away from 'web search' as the default.



Search
belongs here



Device



Recipe Keeper



Facebook



Browser



WhatsApp



Mail



Recipes



Social



Web



Messages



Emails



June 2022: Added Search Field in iOS 16





June 2022: Added Search Field in iOS 16





Philippa, 10

- Often uses the iOS 'search' field.
- Alexa for informational queries.
- Uses Google infrequently.



Philippa, 10

- Often uses the iOS 'search' field.
- Alexa for informational queries.
- Uses Google infrequently.

Will be online shopping
within 1-2 years.



Generation of Searchers who don't start in **Google**

?

So what could an Apple
Search Engine look like?

The background of the image is a dense, dark grid of numerous small, colorful application icons, typical of a mobile operating system's home screen. The icons are arranged in a regular pattern and cover the entire background.

2,000,000

Apps available



Running a Google search



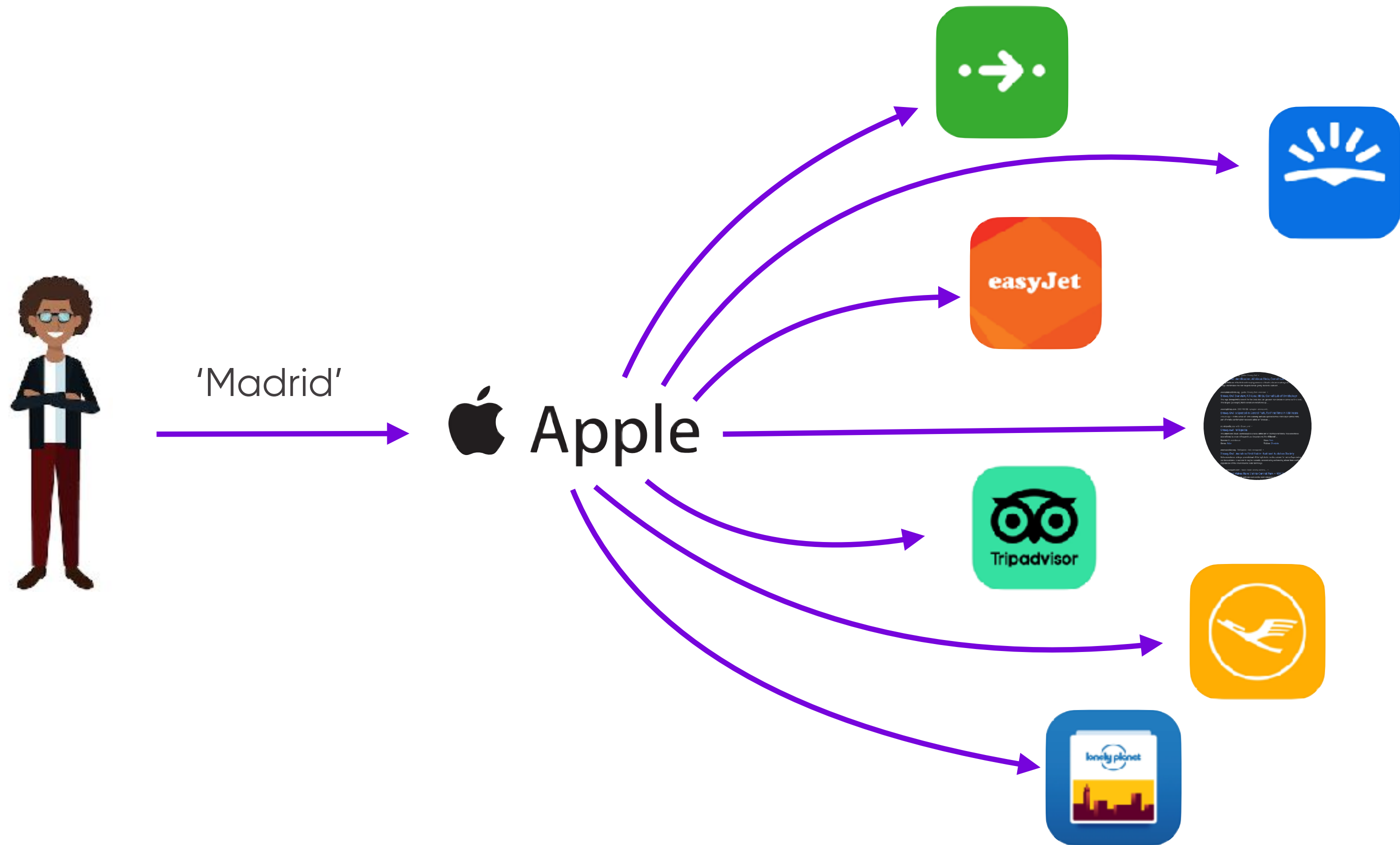
'Madrid'



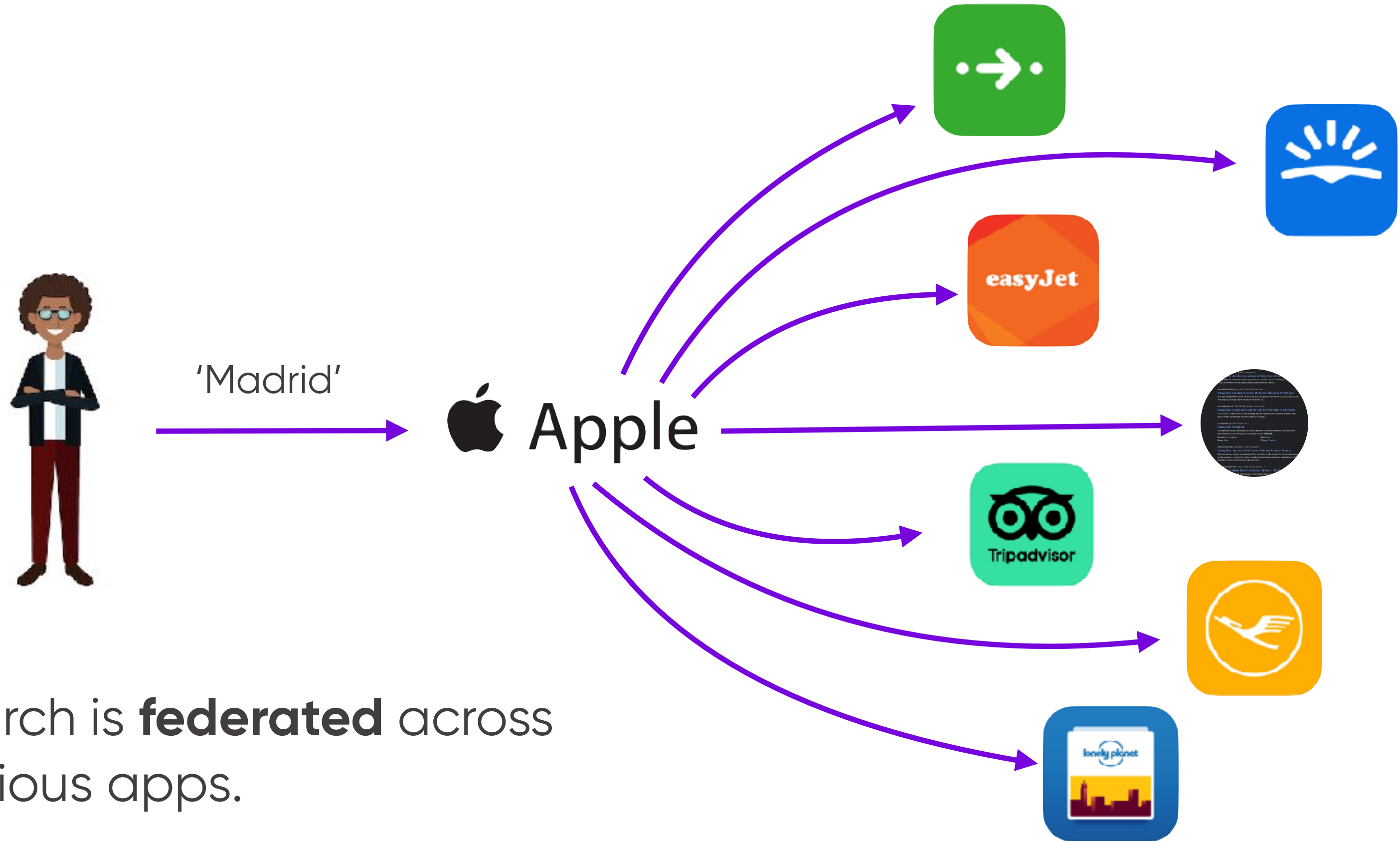
Primarily a web search (supplemented with other sources for some queries).
A single database.



Running an Apple search

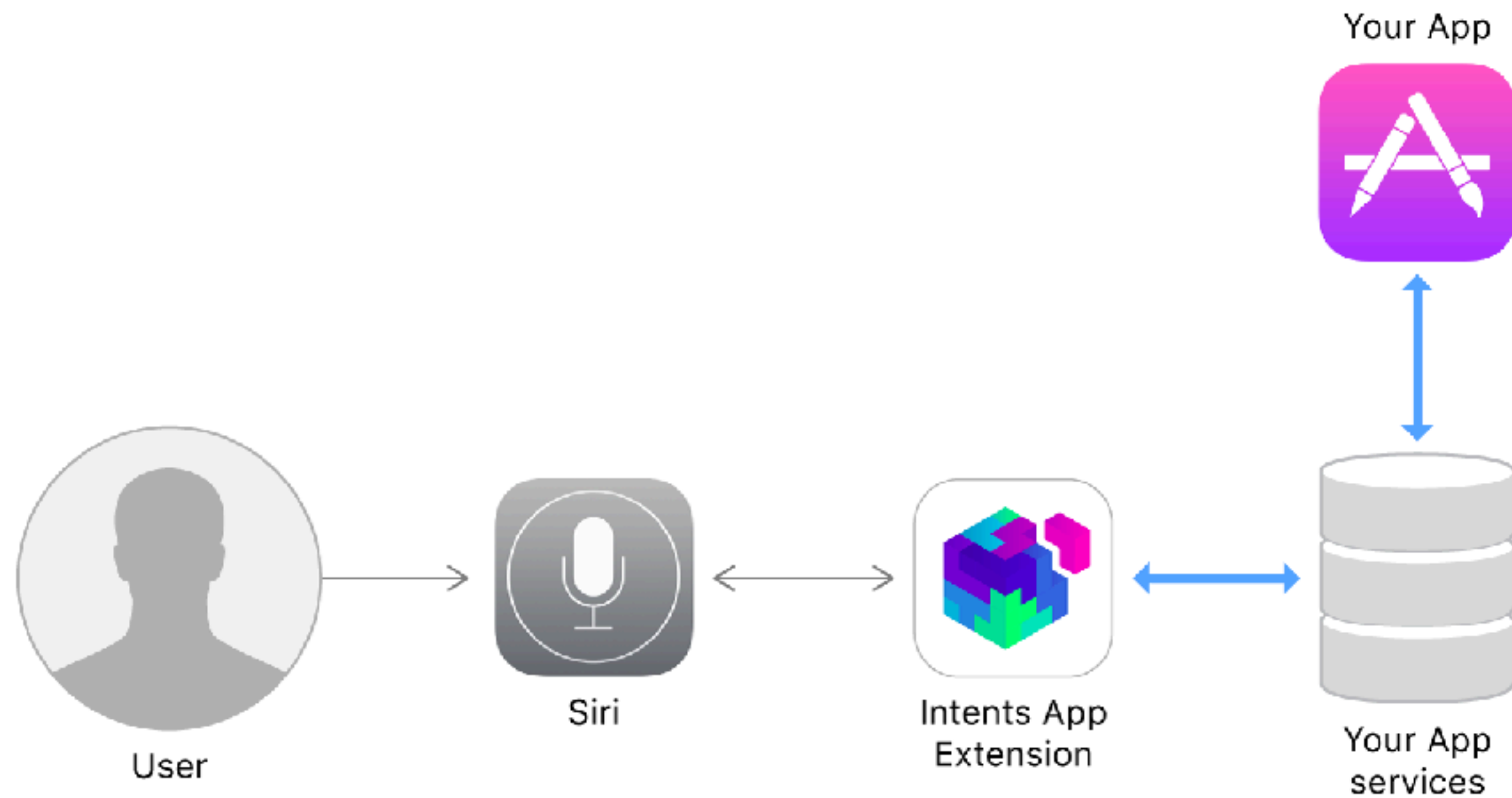


➤ Running an Apple search



Every search is **federated** across many various apps.

> Apps can advertise **Intents**





So imagine you run a search...



Trip to Madrid

> Phone determines your intent(s)...

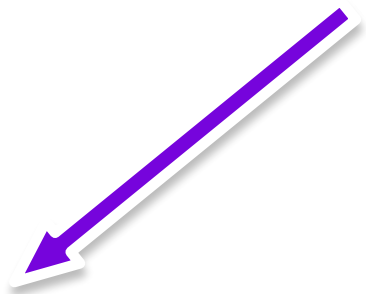
 Trip to Madrid



```
{intent: book flight,  
parameters: madrid}
```

> Phone determines your intent(s)...

 Trip to Madrid



```
{intent: book hotel,  
parameters: madrid}
```



```
{intent: book flight,  
parameters: madrid}
```

> Phone determines your intent(s)...

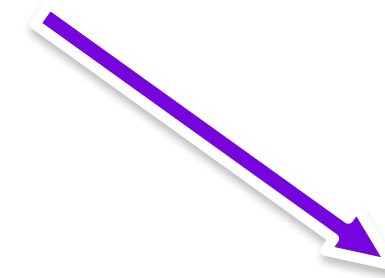
 Trip to Madrid



```
{intent: book hotel,  
parameters: madrid}
```



```
{intent: book flight,  
parameters: madrid}
```



```
{intent: learn language,  
parameters: spanish}
```

> Phone determines your intent(s)...

🔍 Trip to Madrid

`{intent: book hotel,
parameters: madrid}`

`{intent: check weather,
parameters: madrid}`

`{intent: book flight,
parameters: madrid}`

`{intent: learn language,
parameters: spanish}`



Phone determines your intent(s)...



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`

`{intent: book flight,
parameters: madrid}`

`{intent: learn language,
parameters: spanish}`

`{intent: check weather,
parameters: madrid}`

`{intent: travel guide,
parameters: madrid}`



...apps serve those Intents.



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`

`{intent: book flight,
parameters: madrid}`

`{intent: learn language,
parameters: spanish}`

`{intent: travel guide,
parameters: madrid}`



...apps serve those Intents.



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`



`{intent: book flight,
parameters: madrid}`

`{intent: learn language,
parameters: spanish}`

`{intent: travel guide,
parameters: madrid}`



...apps serve those Intents.



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`



`{intent: book flight,
parameters: madrid}`



`{intent: learn language,
parameters: spanish}`

`{intent: travel guide,
parameters: madrid}`



...apps serve those Intents.



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`



`{intent: book flight,
parameters: madrid}`



`{intent: learn language,
parameters: spanish}`

`{intent: travel guide,
parameters: madrid}`





...apps serve those Intents.



Trip to Madrid

`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`



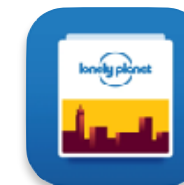
`{intent: book flight,
parameters: madrid}`



`{intent: learn language,
parameters: spanish}`



`{intent: travel guide,
parameters: madrid}`





...apps serve those Intents.



Trip to Madrid



`{intent: book hotel,
parameters: madrid}`



`{intent: check weather,
parameters: madrid}`



`{intent: book flight,
parameters: madrid}`



`{intent: learn language,
parameters: spanish}`



`{intent: travel guide,
parameters: madrid}`





Apple Can Serve Many of the **Same Intents** via Apps

Their Web Index Need Only Be **Good Enough**



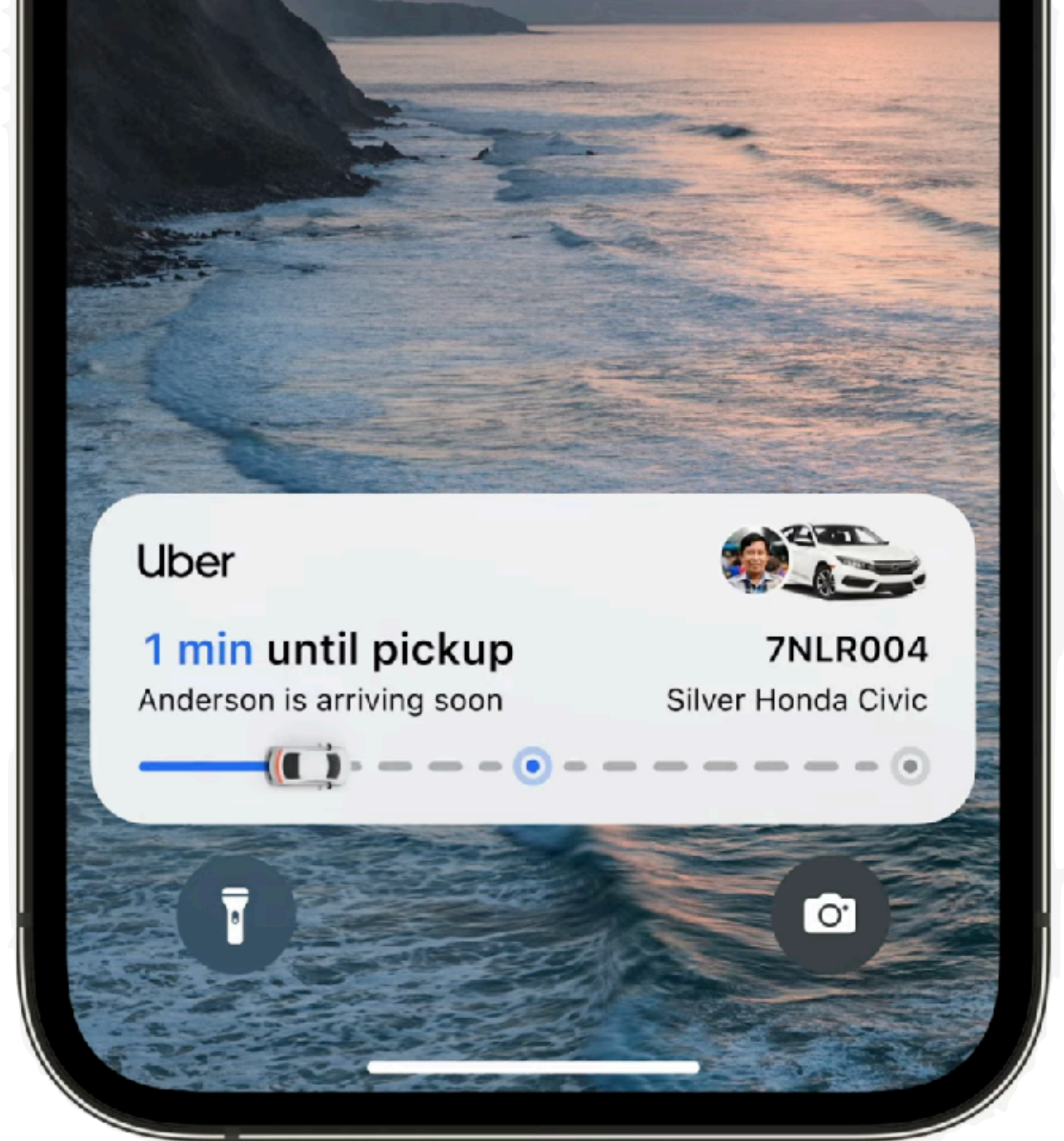
Federated Results Are **Realtime**

Web Results May Be **Old**



Non-Web Results

"How can I get to
Messe München?"

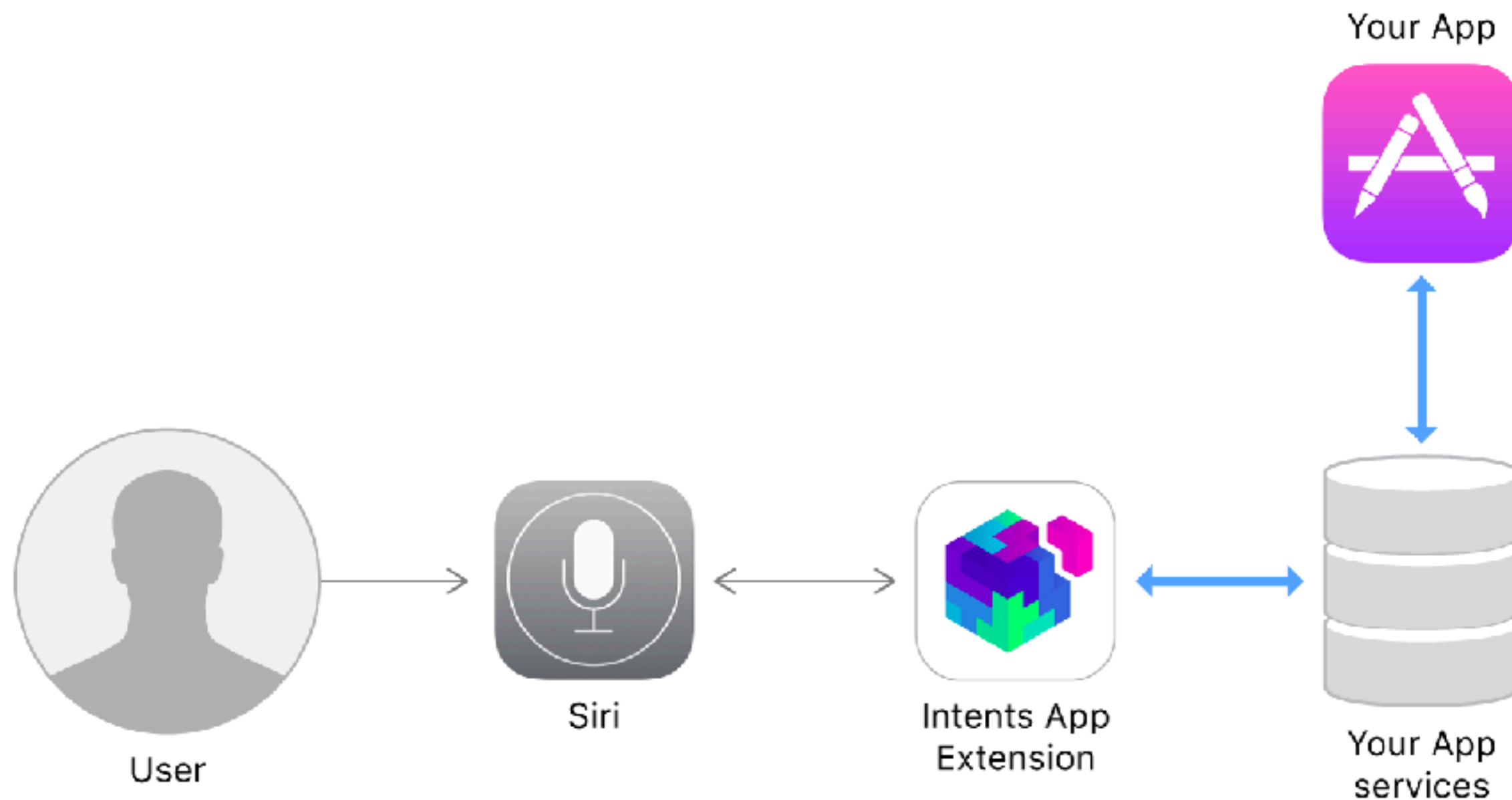


> App Clips (launched Sep 2020)





Earlier: Mapping intents to apps on your phone




> App Clips extend that to any app...




An intent can be mapped to available App Clips in Apple's **Intent Index**.



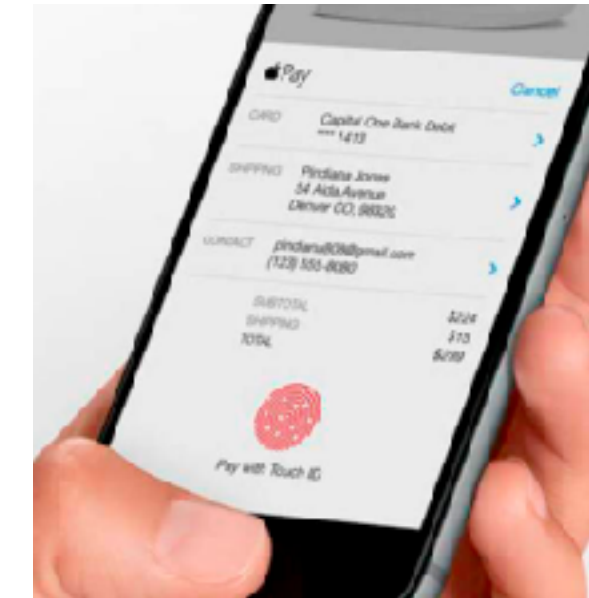
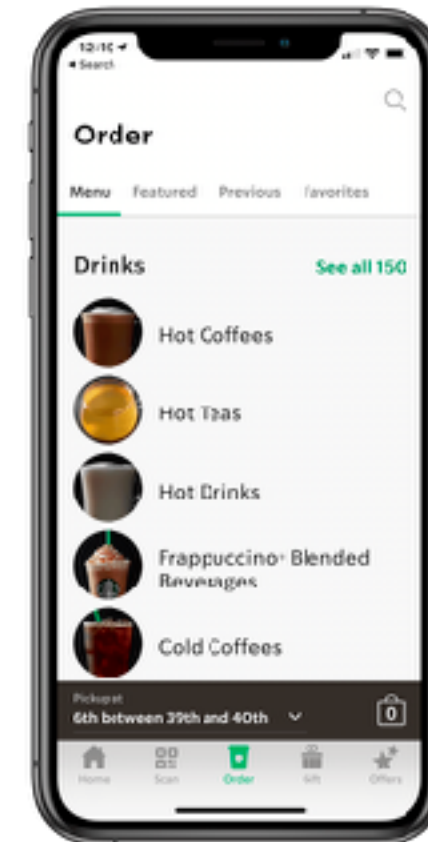
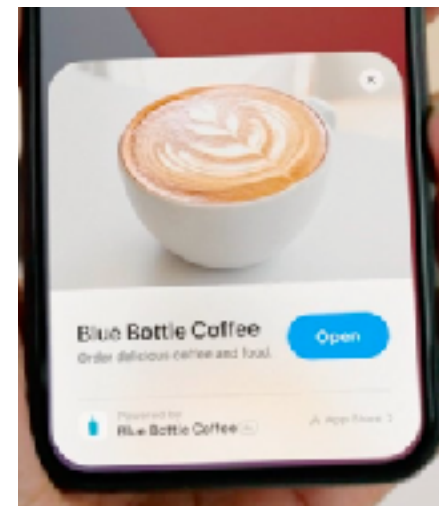
Device Native: Apple Pay + Sign in with Apple

Buy with  Pay

 Sign in with Apple



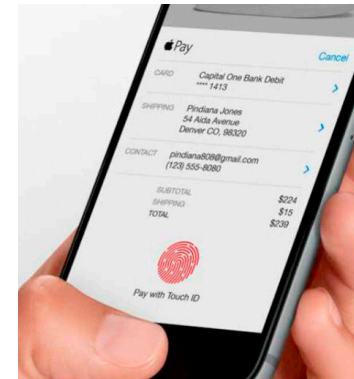
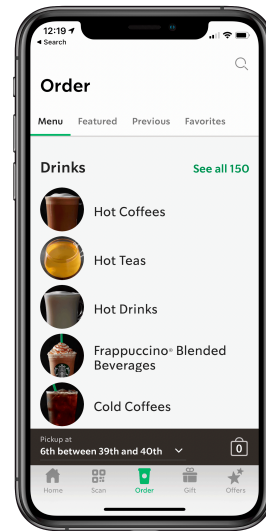
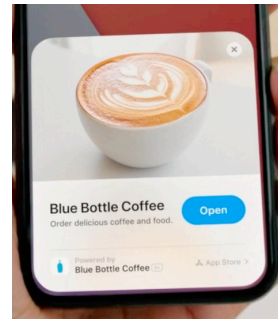
End to End Example: Coffee Order



Open an App Clip, select & pay for a coffee. Pick it up in 2 mins.
Mobile native & micro transactional, all within search results.



End to End Example: Coffee Order



Open an App Clip, select & pay for a coffee. Pick it up in 2 mins.
Mobile native & micro transactional, all within search results.

#SMXLondon

@TomAnthonySEO

This is
Search!



June 2024



Emerging New **Models of Search**

Not web initiated, and
results not web centric.



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways



The
Google Era



5 Years Ago:
LLMs



5 Years Ago:
Mobile Traffic



Takeaways

4

Tactical Takeaways

What does all this mean?!



LLMs Won't Execute Javascript

Ensure your site works
without it for now.



Recognise **Dark Traffic** Will Continue To Increase

No attribution from ChatGPT,
Siri, 'deep research' tools, and more...



Write Your Content To **Persuade** LLMs

They might bypass rankings!



Web Search Is Becoming **More Complex**

Predicting SEO That Works
Is Harder Than Ever



Web Search Is Becoming **More Complex**

Predicting SEO That Works
Is Harder Than Ever

Rapid SEO A/B testing that delivers attributable ROI

SearchPilot helps SEO teams run rapid, revenue-boosting SEO testing programs for large, mission-critical websites.

It's time to ramp up your testing, control your cadence, get statistically significant results, and build robust business cases.

We empower SEO teams at...



M&S



petco

the
stepstone
group

FLIGHT
CENTRE



Total Won Sessions

18,275 monthly

Total Rescued Sessions

8,227 monthly

Completed Tests

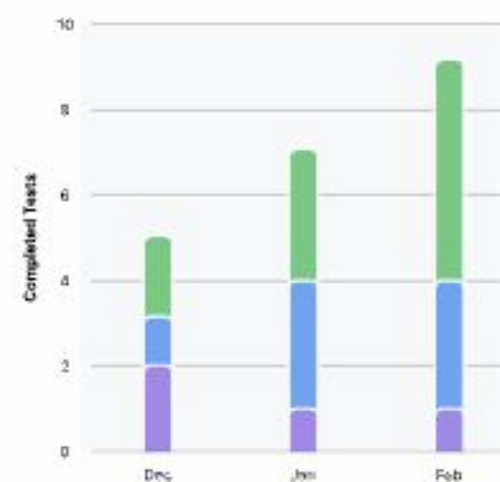
146 out of 152

Running Tests

6 out of 152

Completed Tests Summary

Positive Inconclusive Negative



Most recent significant results

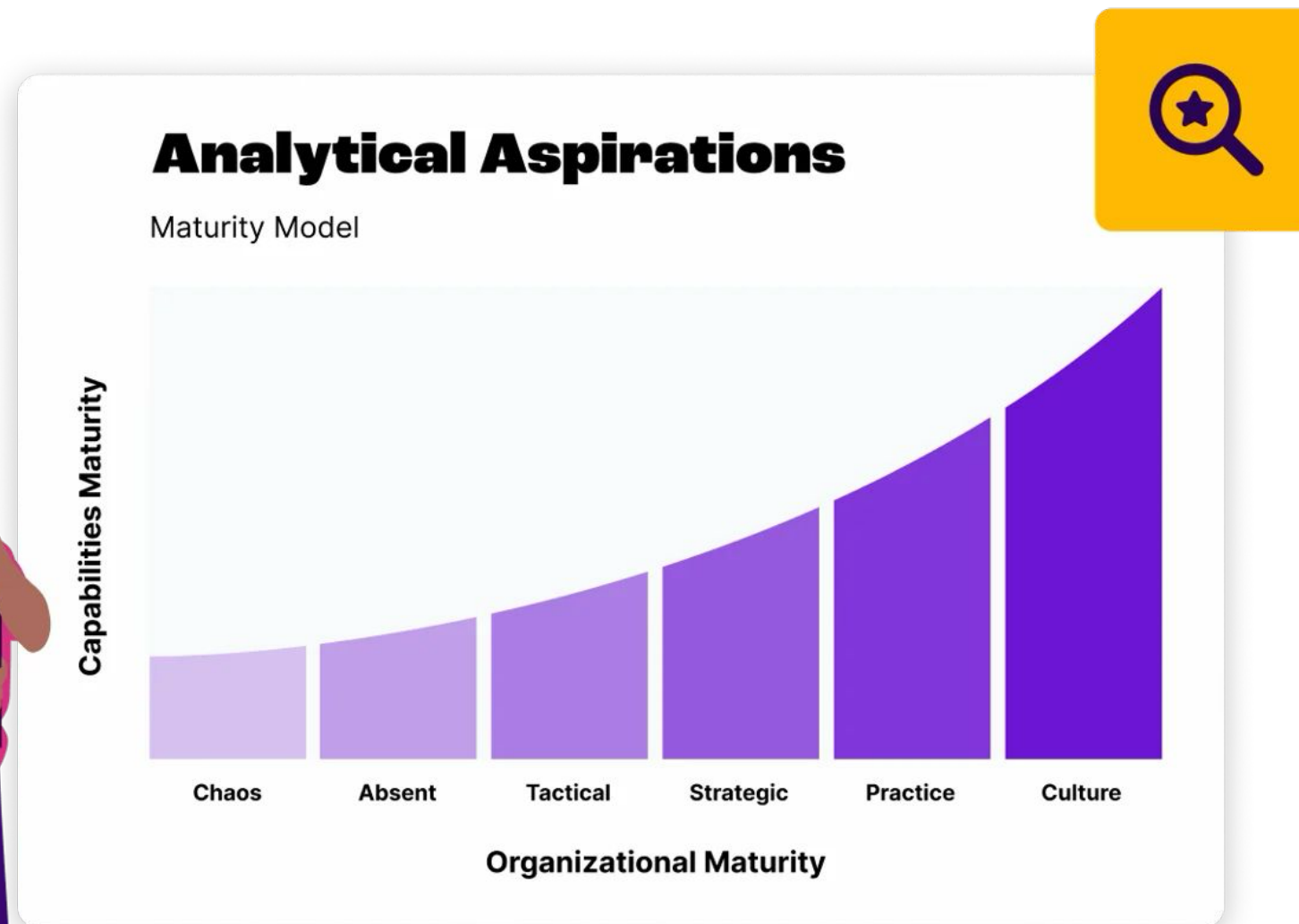
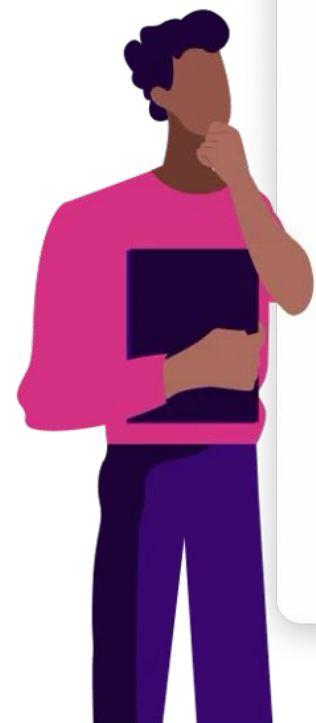
Test: Updated live in title tag



Uplift
7.2%

Won Sessions
9,589
monthly

SEO Testing Discovery Day with Will or Craig



What we'll cover

1. **Custom Assessment:** Determine where you are on the SEO testing maturity curve
2. **SEO Testing Foundations:** Learn how SEO testing works, from ideation to reporting
3. **Relevant Insights:** We'll share testing insights tailored to your site
4. **Integration:** How to integrate SEO testing with your existing user testing program
5. **Actionable Roadmap:** You'll leave with a clear plan for moving up the testing maturity curve

Book now: <https://bit.ly/sp-discovery-day>



In 2024 There Were...

17 Billion



In 2024 There Were...

17 Billion

Faxes Sent.

This won't die...

The Google logo, consisting of the word "Google" in its signature multi-colored font: blue 'G', red 'o', yellow 'o', blue 'g', green 'l', and red 'e'.A horizontal search bar with rounded ends. On the left is a magnifying glass icon. On the right are two icons: a microphone and a camera.

Google Search

I'm Feeling Lucky

This won't die...
...but it won't be the only model.

Google

Google Search

I'm Feeling Lucky



1. Only **one corpus**: the web.
2. Searches fulfilled **one query** at a time.
3. Results primarily **links to websites**.



Emerging Era

- 1. Multiple corpora:** web, apps, LLMs.
- 2. Multiple queries** (federated or agent).
- 3. Results:** web, apps, & recommendations.

Thank You!

Time for Q&A...

Bluesky: [TomAnthony.bsky.social](https://bsky.social/TomAnthony)

Fax: +49 821 2138617