

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

Google™

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

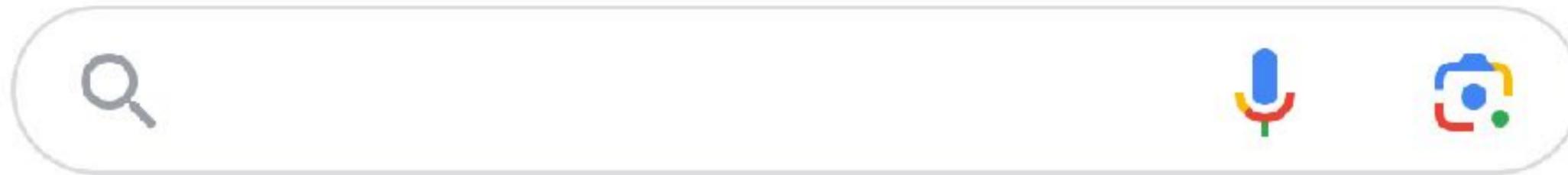
  

Google Search

I'm Feeling Lucky

2024

Google



2024
On Mobile

Google

Search



2024
Mobile App

Google

Google Search

I'm Feeling Lucky

2024

Google!
B E T A

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Our **Mental Model** of What a **Search Engine** is **Out of Date...**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

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Search Marketing Expo – SMX Munich

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

> A Typical Google Search



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1-4
keywords

> A Typical Google Search



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1-4
keywords

corpus is
the web



Single-Shot Search



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Yes! This is what I needed.



Most searches are not single-shot...

Google

🔍 Holiday Villas in Europe



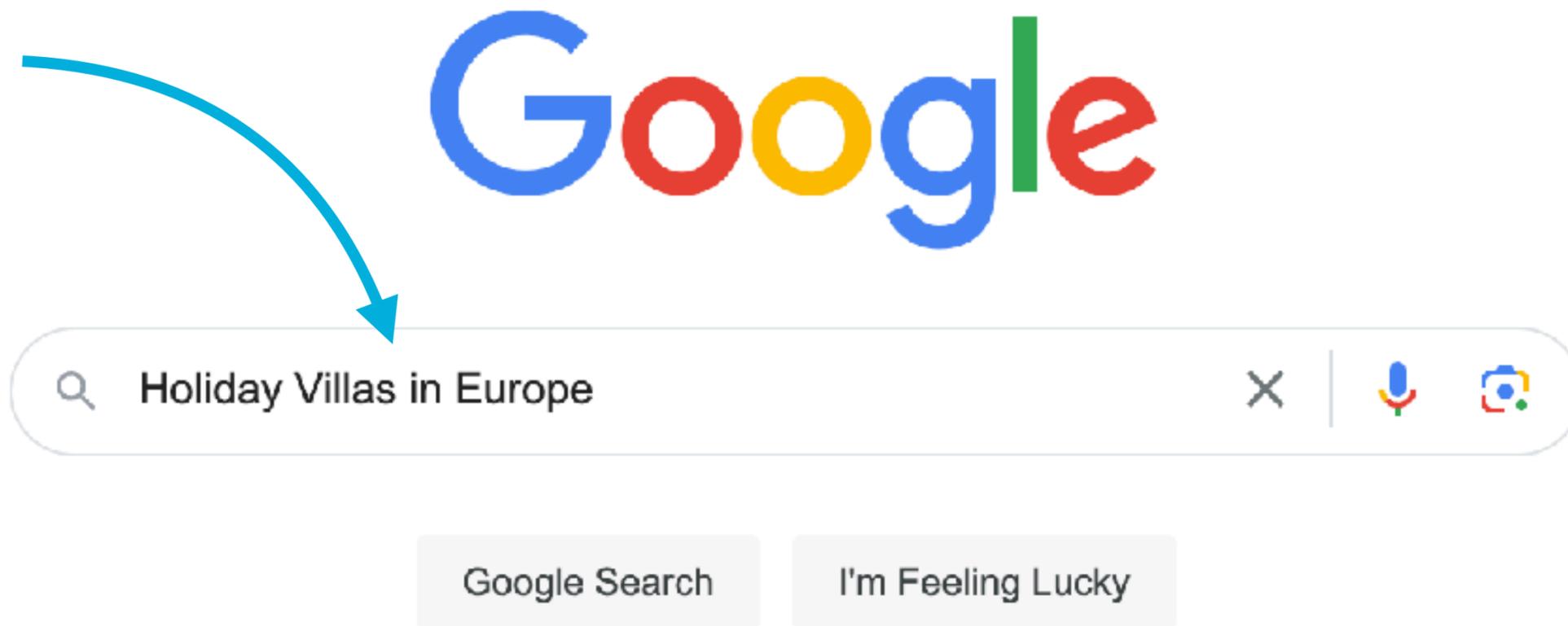
Google Search

I'm Feeling Lucky



Most searches are not single-shot...

Only some of
my criteria





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.

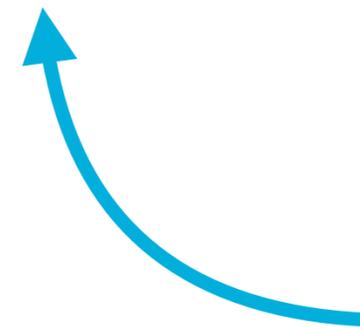


Google search flow...

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...

Google

🔍 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



... instead of this!

	A	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Cyprus													
2		Dates	Beach	Restaurant	Supermarket	Hettyfriendly Pool	Airport	Comments		link				
3	Villa Marlene	14.08.-28.08.	600m	200m	500m	no (depth 1,5m, no steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/marlene-13696?adults=2&children=0				
4	Villa Coralia Dream 12	07.08.-21.08.	700m	300m	400m	no (depth 1m-1,65m, no steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/coralia-dream-12-13697?adults=2&children=0				
5	Villa Seaside Diana 1	27.08.-10.09.	800m	700m	1,3km	yes (depth 0,9m, steps)	Paphos (1h10min)			https://www.jamesvillas.co.uk/destinations/cyprus/pomos/seaside-diana-1-17-13698?adults=2&children=0				
6	Villa Coralia Dream 2	21.08.-04.09.	600m	300m	300m	maybe (depth 1m-1,65m, steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/coralia-dream-2-13699?adults=2&children=0				
7	Villa Demitrios Vine	24.08.-07.09.	800m	600m	700m	no (depth 1,2m-1,5m, no steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/demitrios-vine-11-13700?adults=2&children=0				
8	Andreas Villa	28.08.-11.09.	300m	800m	1,5km	no (depth 1,5m, no steps)	Paphos (1h10min)			https://www.jamesvillas.co.uk/destinations/cyprus/argaka/andreas-villa-6586?adults=2&children=0				
9	Villa Chrisandria	21.08.-04.09.	1km	1km	1,8km	yes (depth 0,8m-1,7m, steps)	Paphos (1h10min)			https://www.jamesvillas.co.uk/destinations/cyprus/argaka/chrisandria-2492?adults=2&children=0				
10	Villa Coralia Dream 1	28.08.-11.09.	600m	300m	300m	maybe (depth 1m-1,65m, steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/coralia-dream-1-13701?adults=2&children=0				
11	Villa Antigoni	28.08.-11.09.	600m	1km	1km	probably (depth 1m-2m, steps (depends on photo))	Paphos (1h)			https://www.jamesvillas.co.uk/destinations/cyprus/latch/antigoni-6696?adults=2&children=0				
12	Villa Anthia	24.08.-07.09.	700m	600m	700m	no (depth 1m-1,5m, no steps)	Paphos (40min)			https://www.jamesvillas.co.uk/destinations/cyprus/coral-bay/villa-anthia-5281?adults=2&children=0				
13	Villa Fostira	28.08.-11.09.	400m	1km	1km	no (depth 1m-2m, no steps)	Paphos (1h)	BBQ on other side to pool!		https://www.jamesvillas.co.uk/destinations/cyprus/latch/fostira-2367?adults=2&children=0				
14	Villa Chari Mari	10.08.-24.08.	1,4km			yes				https://www.jamesvillas.co.uk/destinations/cyprus/latch/chara-mari-1653?adults=2&children=0				
15														
16	Canary Islands													
17		Dates	Beach	Restaurant	Supermarket	Hettyfriendly Pool	Airport	Comments		link				
18	Villa Casa Aurora	29.08.-12.09.	1km	1km	1km	no (depth 1,4m-1,6m, no steps)	Tenerife South (40min)			https://www.jamesvillas.co.uk/destinations/the-canary-islands/tenerife/ice-gig-13702?adults=2&children=0				
19	Villa Casa Alfred	11.08.-26.08.	600m	400m	200m	yes (depth 1,5m-1,6m, steps, ledge?)	Arrecife (15min)	Seems to have a study, looks like big ones w		https://www.jamesvillas.co.uk/destinations/the-canary-islands/lanzarote/puert-13703?adults=2&children=0				
20	Apartment 3 Bdr Suite I	28.08.-11.09.	1km	100m	100m	Resort, Kiddy Pool	Tenerife South (30min)			https://www.booking.com/hotel/es/the-terraces-13704?adults=2&children=0				
21	Villa Casa Lucia	21.08.-04.09.	1km	400m	200m	yes (depth 0,45m-1,45m, big ledge)	Arrecife (15min)			https://www.jamesvillas.co.uk/destinations/the-canary-islands/lanzarote/puert-13705?adults=2&children=0				
22	Villa Femes	21.08.-04.09.	700m	700m	700m	maybe (depth 1,35m-1,6m, steps)	Arrecife (40min)			https://www.jamesvillas.co.uk/destinations/the-canary-islands/lanzarote/playa-13706?adults=2&children=0				
23	Villa Brenas	28.08.-11.09.	700m	700m	700m	maybe (depth 1,35m-1,6m, steps)	Arrecife (40min)			https://www.jamesvillas.co.uk/destinations/the-canary-islands/lanzarote/playa-13707?adults=2&children=0				
24	Villa Rosa	25.08.-08.09.	1km	600m	600m	no (depth 0,8m-1,6m, no steps)	Arrecife (15min)	meh		https://www.jamesvillas.co.uk/destinations/the-canary-islands/lanzarote/costa-13708?adults=2&children=0				
25	Villa Alicia	27.08.-10.09.	700m	1km	100m	yes (depth 1,2m-1,5m, steps)	Fuerteventura Airport (40min)	meh, Aquapark		https://www.jamesvillas.co.uk/destinations/the-canary-islands/fuerteventura/c-13709?adults=2&children=0				
26	Villa Salina II	27.08.-10.09.	1km	1km	1,5km	no (depth 1,35m, no steps)	Fuerteventura Airport (15min)	meh		https://www.jamesvillas.co.uk/destinations/the-canary-islands/fuerteventura/c-13710?adults=2&children=0				
27														
28														
29	Portugal													
30		Dates	Beach	Restaurant	Supermarket	Hettyfriendly Pool	Airport	Comments		link				
31	Villa Baltin	25.08.-08.09.	1km	200m	1,3km	yes (depth 1,1m-2,2m, fenced off)	Faro (45min)			https://www.jamesvillas.co.uk/destinations/portugal/algarve/castelo/bal-in-13711?adults=2&children=0				



I didn't trust Google to handle this..

Google

🔍 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



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



[x With private pool](#)

[2023](#)

[And swimming pool](#)

[Best](#)

[Cheap](#)

[Luxury](#)

[Images](#)

[Maps](#)

[Books](#)



So Google not trained for this query...

Google



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_\(inven...](https://en.wikipedia.org/wiki/Alexander_Bain_(inven...)

[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

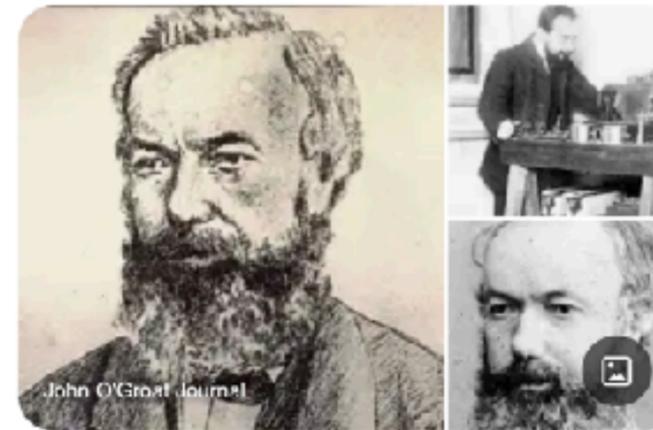
Who is the real inventor of the fax machine?

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

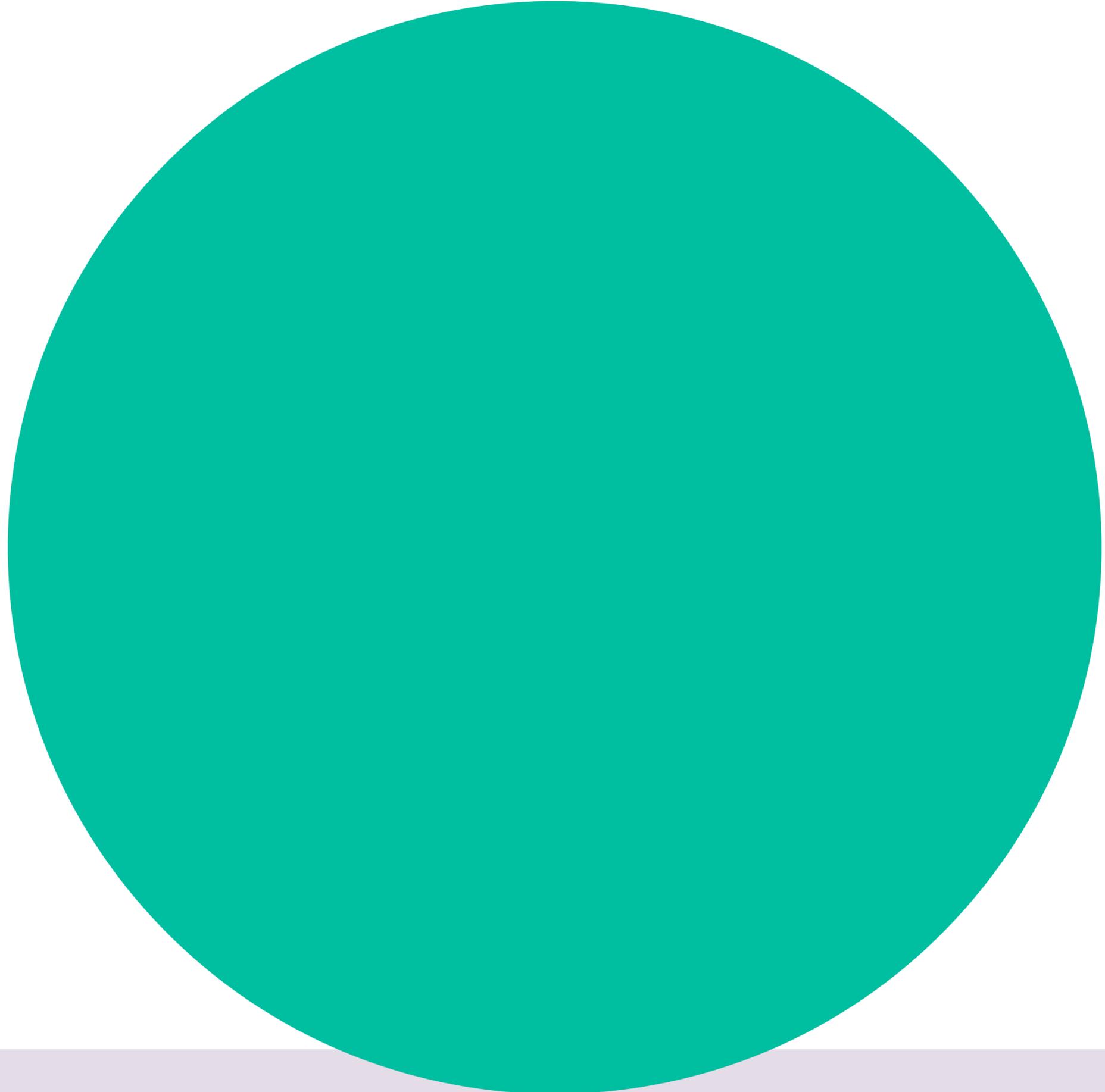
GPT4 has:

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)?



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 up your car and head to the park. Grab a nice spot with shade as

your base. The 13-year-old park has a lot to offer. Older two can start at the kid splash zones – there are slides for them. 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 an...



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

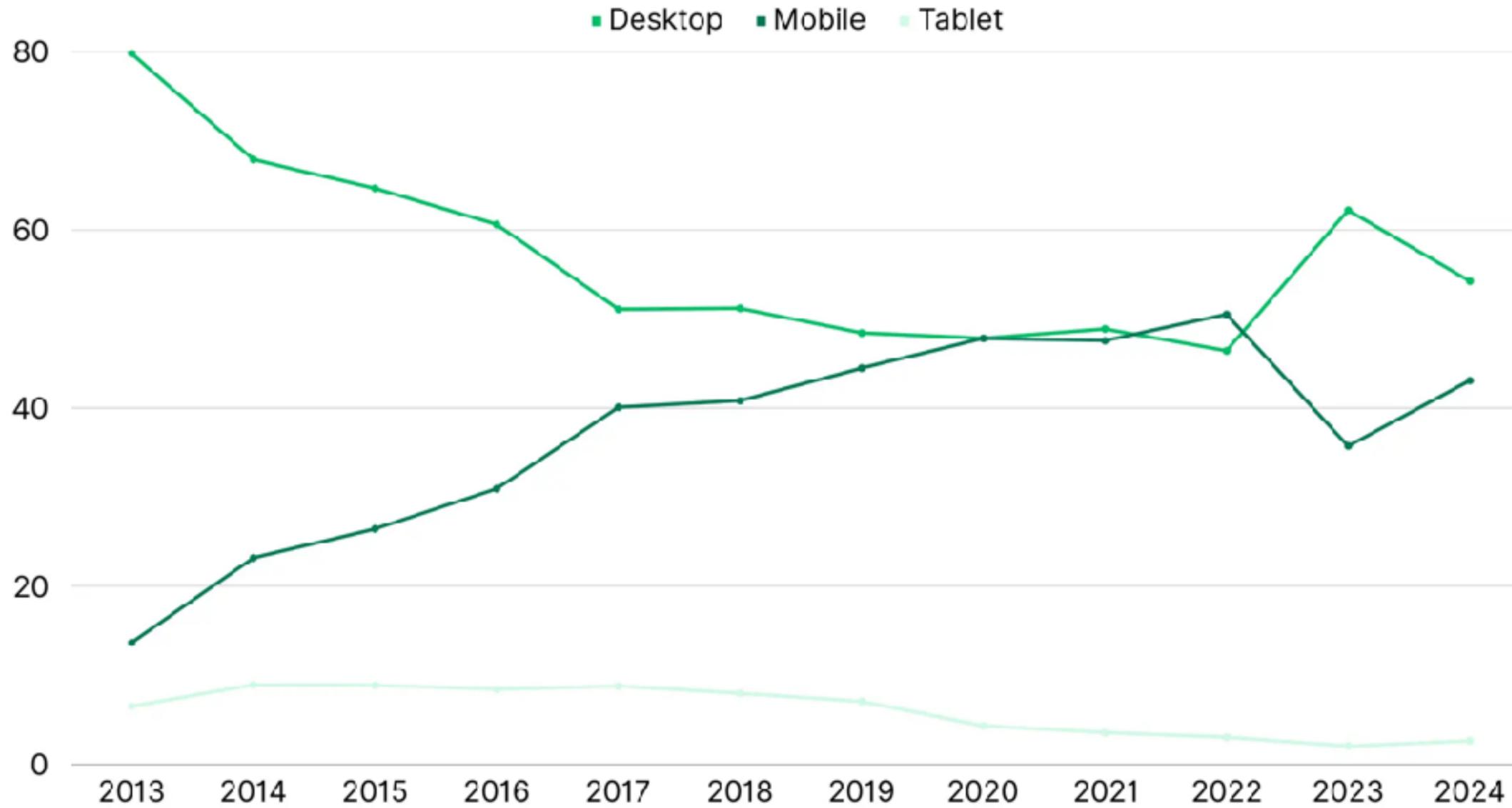
Apps Overtook the Web

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



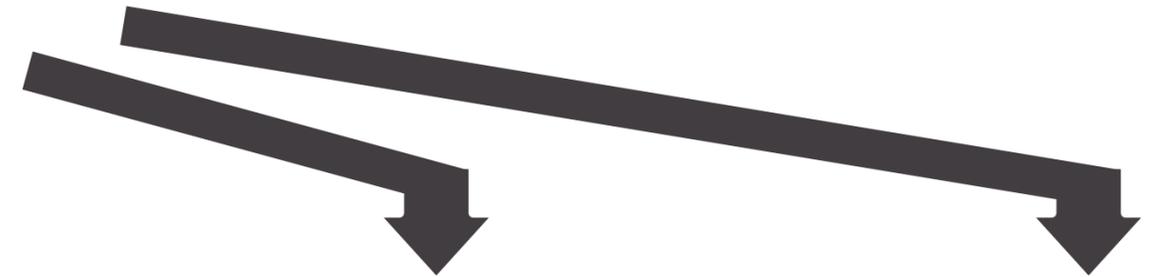
Device



Browser



Web



WhatsApp



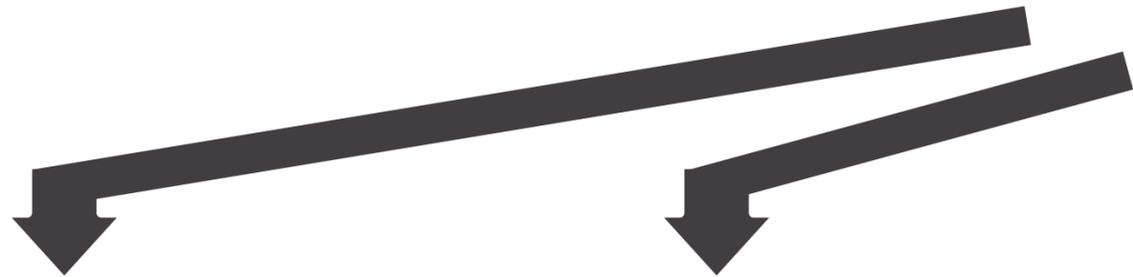
Messages



Mail



Emails



Recipe Keeper



Recipes



Facebook



Social

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



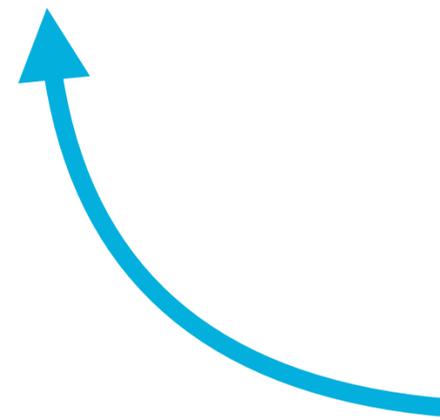
Mathilda, 13

- 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?

2,000,000

Apps available



Running a Google search



'Madrid'



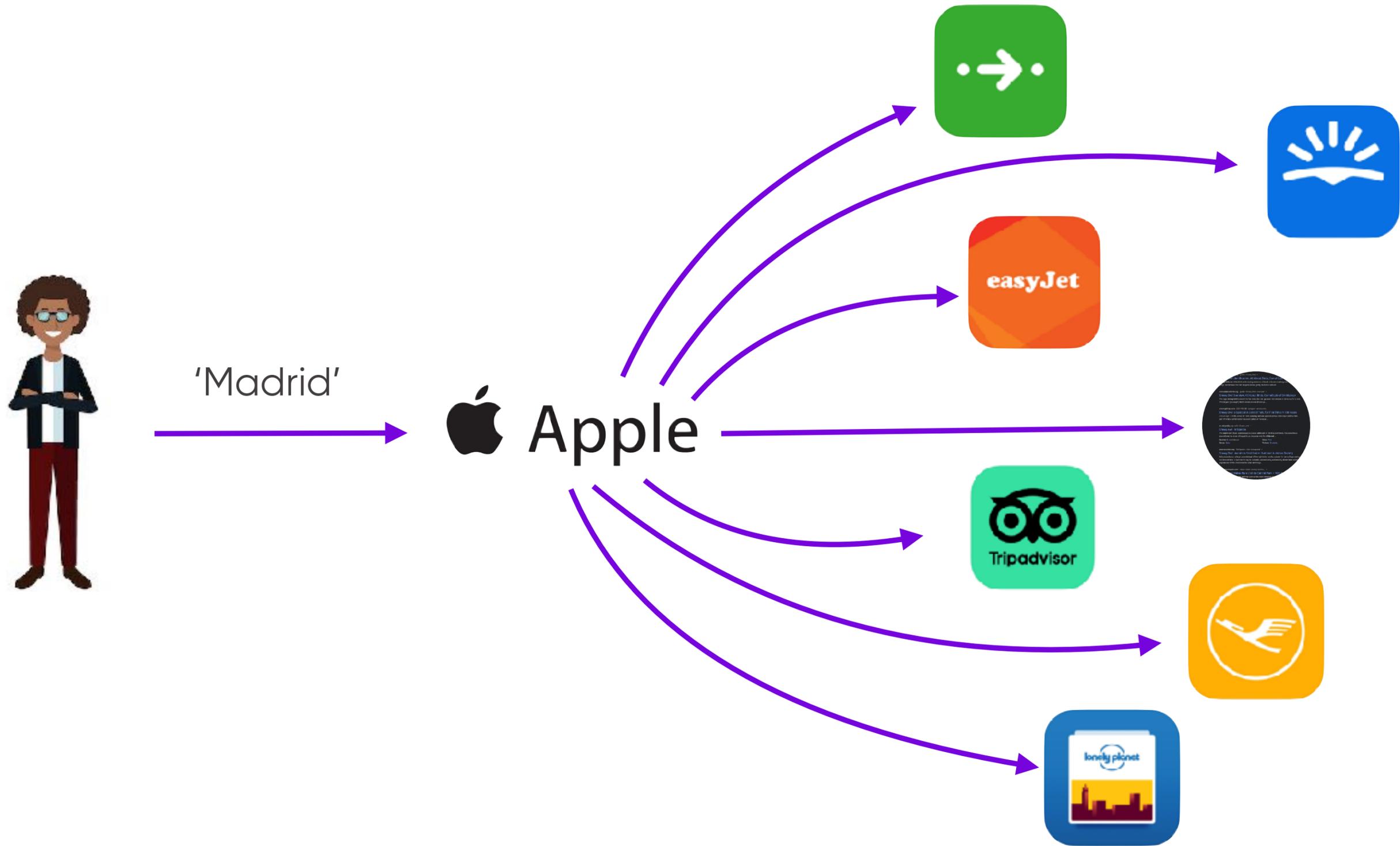
Google



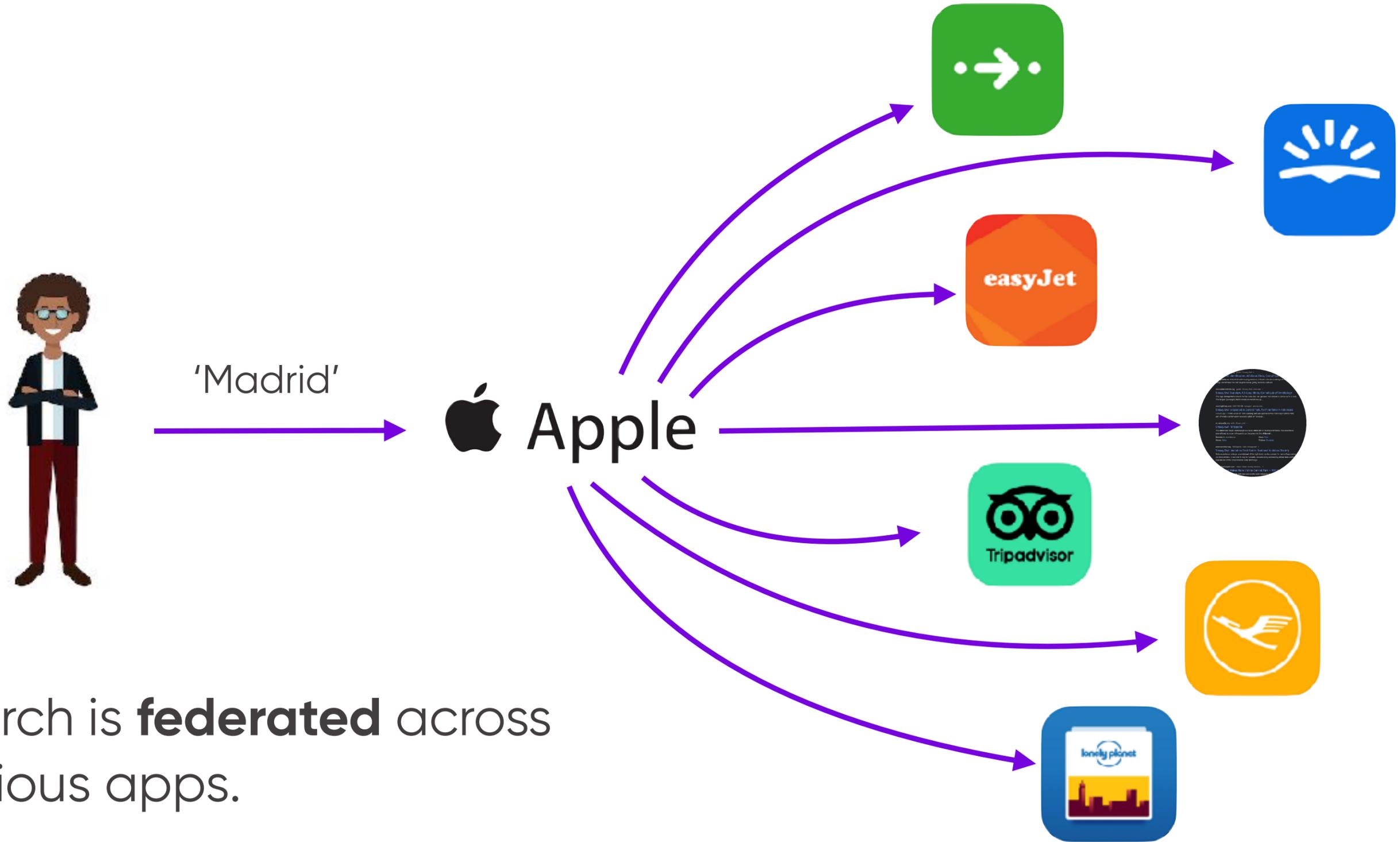
Primarily a web search (supplemented with other sources for some queries).

A single database.

> Running an Apple search

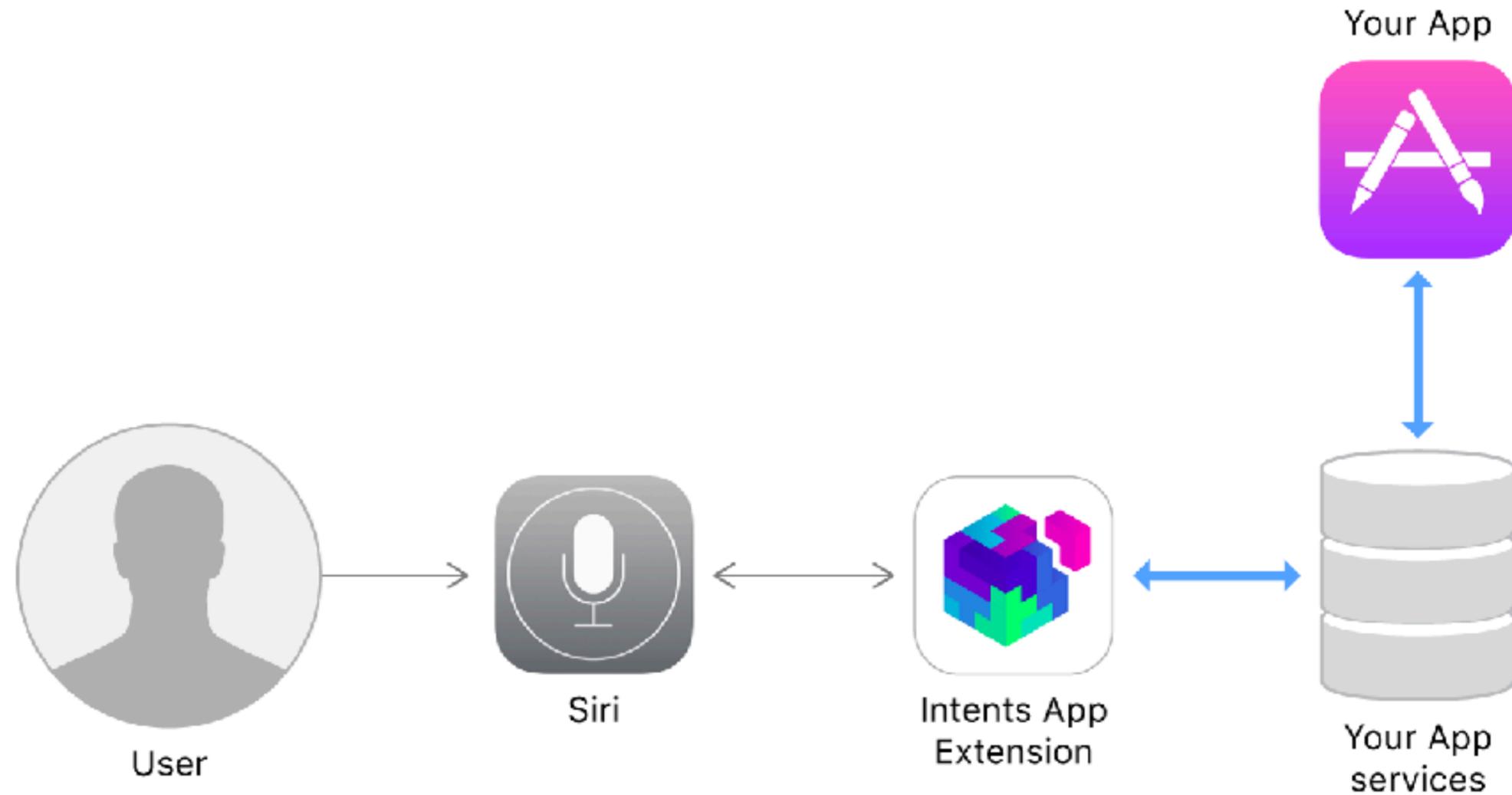


> Running an Apple search



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

> Apps can advertise **Intents**

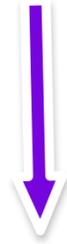


> So imagine you run a search...

 Trip to Madrid

> Phone determines your intent(s)...

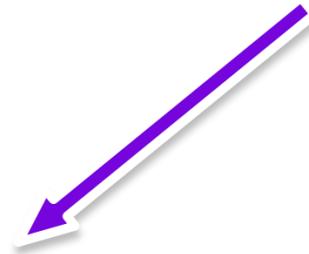
 Trip to Madrid



```
{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)...

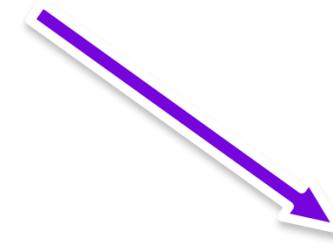
🔍 Trip to Madrid



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

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...apps serve those Intents.



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

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



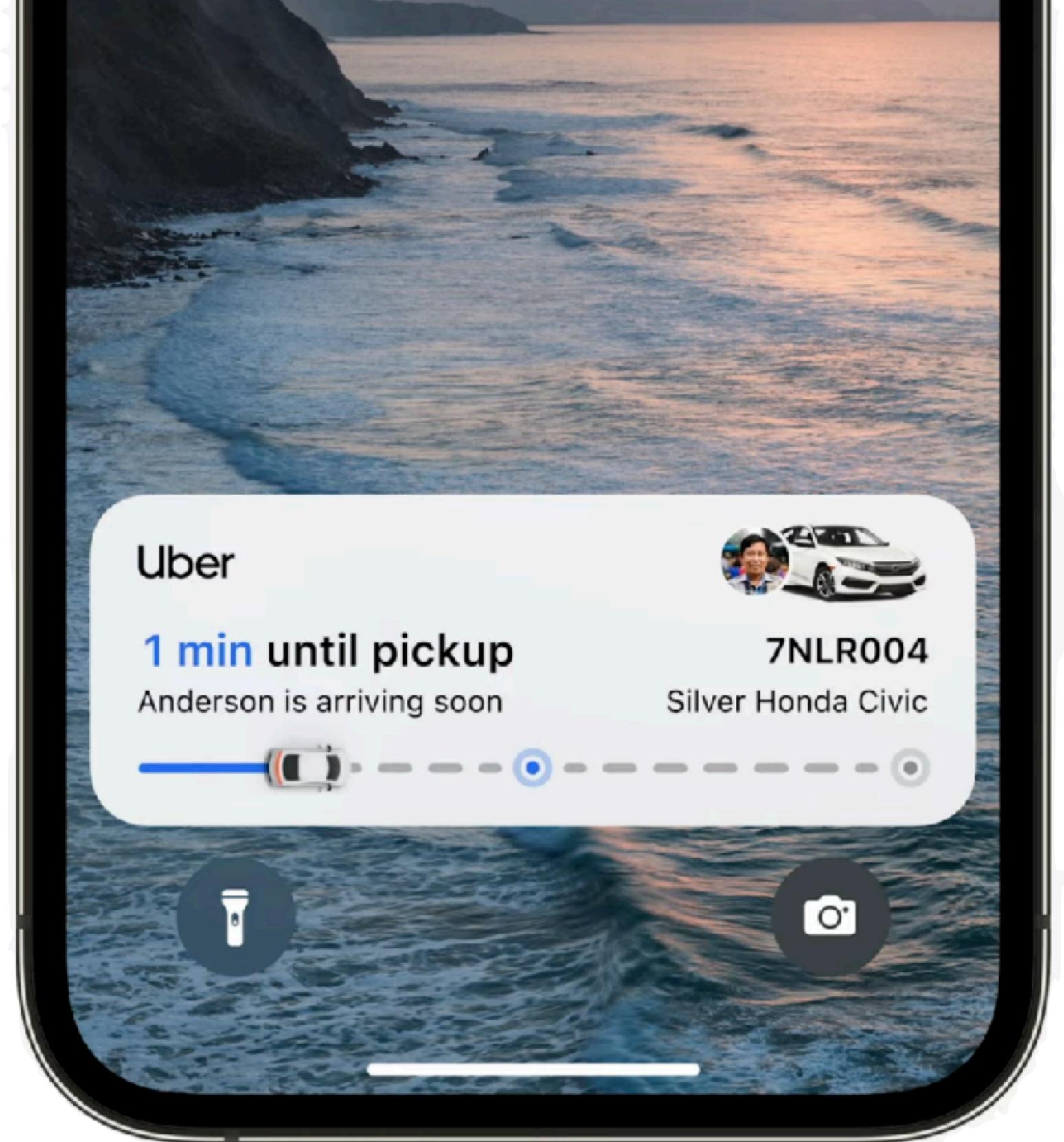
Federated Results Are **Realtime**

Web Results May Be **Old**



Non-Web Results

“How can I get to
Messe München?”

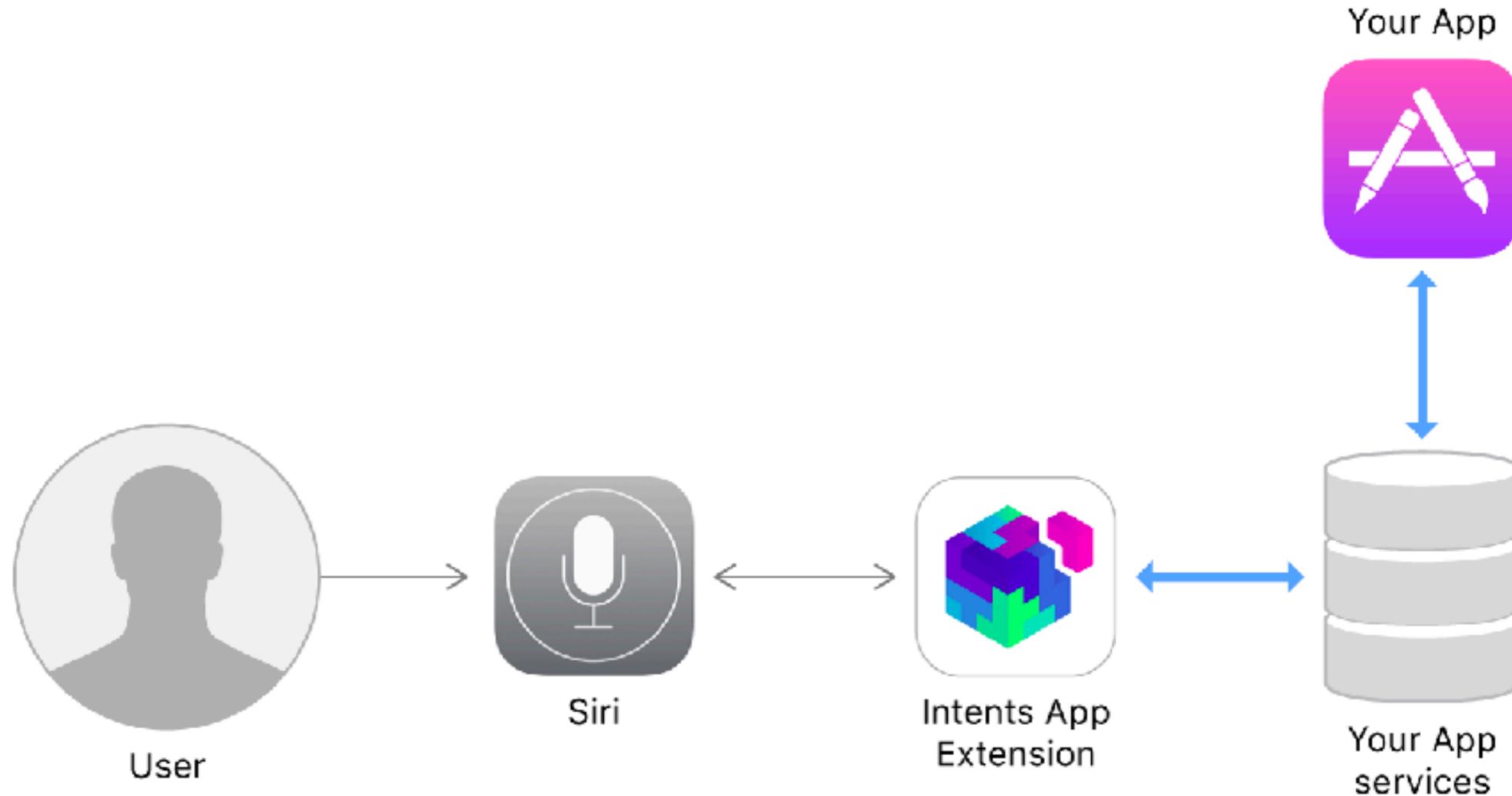


> App Clips (launched Sep 2020)





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**.



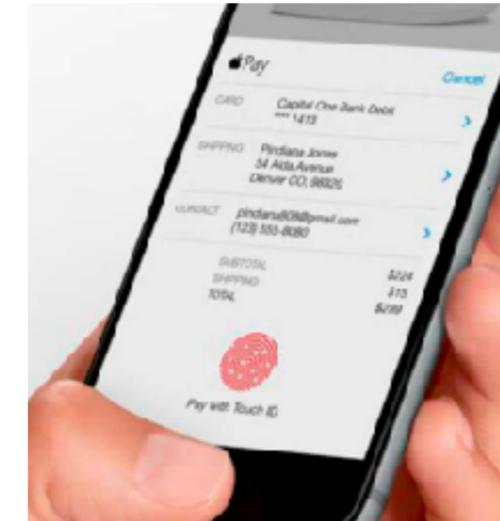
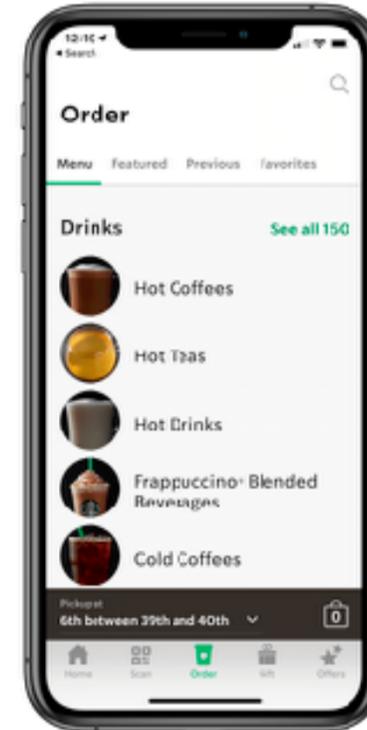
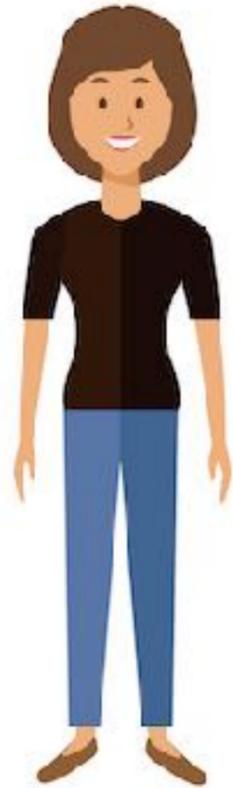
Device Native: Apple Pay + Sign in with Apple

Buy with  Pay

 Sign in with Apple



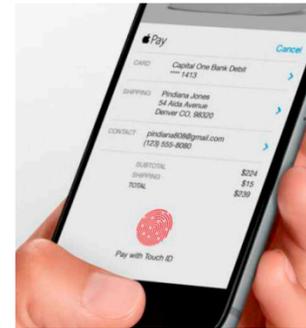
End to End Example: Coffee Order



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!



A more personal Siri

Private Cloud Compute

Clean Up in Photos

Summaries in Messages

Writing Tools

Reduce Interruptions in Focus

Genmoji

Apple Intelligence

Image Playground

Image Wand

Audio recording summaries

Create a Memory Movie

Describe a Memory...

Priority messages in Mail

Priority notifications

Natural language 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**

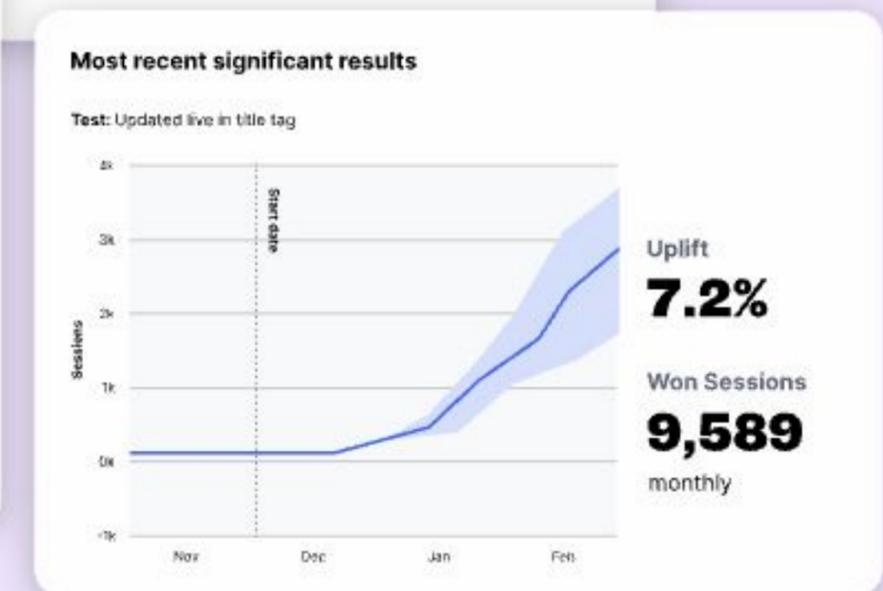
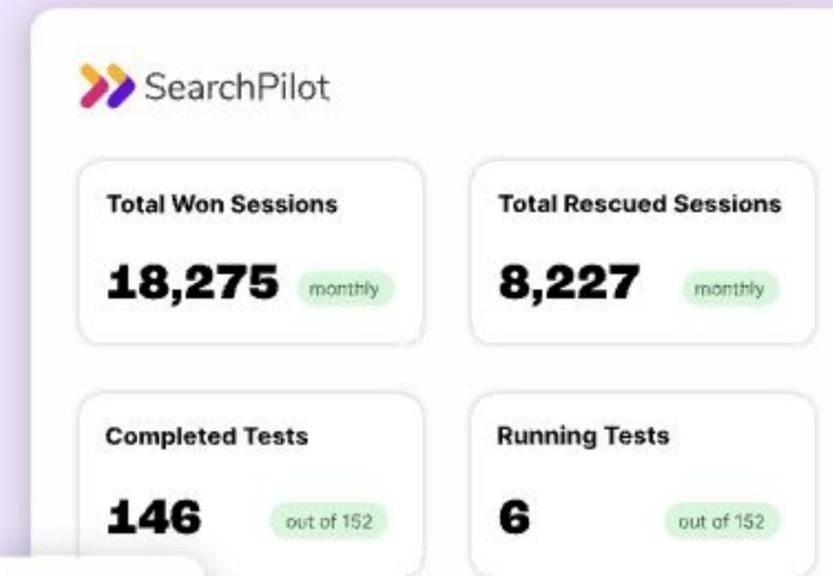
Predicting SEO That Works
Is Harder Than Ever

Rapid SEO A/B testing that delivers attributable ROI

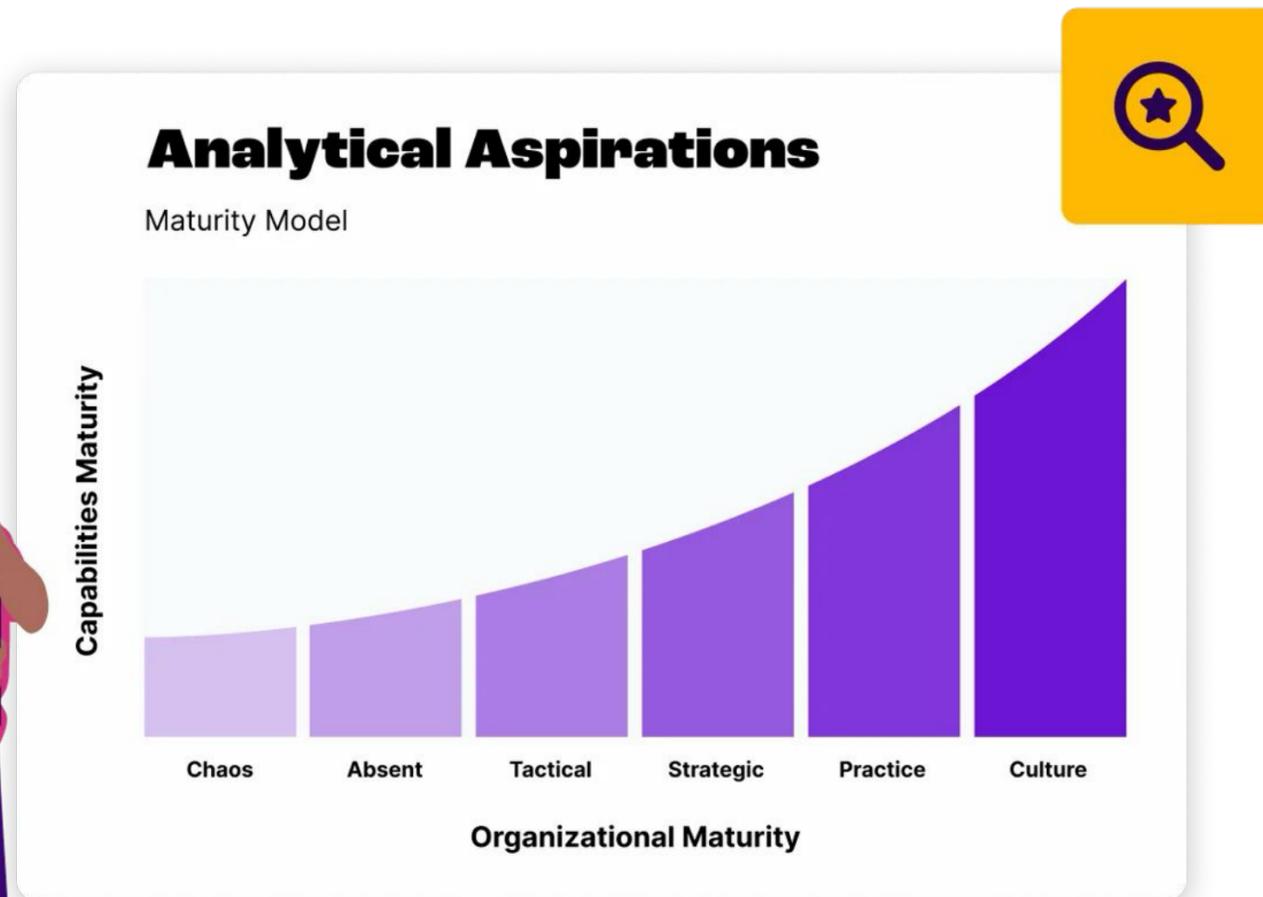
SearchPilot helps SEO teams run rapid, revenue-boosting SEO testing programs for large, mission-critical websites.

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...



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...

Google

A search bar with a magnifying glass icon on the left and microphone and image search icons on the right.

Google Search

I'm Feeling Lucky

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

Google

A search bar with a magnifying glass icon on the left and microphone and image search icons on the right.

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**.



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

Thank You!
Time for Q&A...

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Fax: +49 821 2138617