Quarterly review Discovery Q3 - 2015/16

Approximate team size during this quarter: ... 13.5 FTE *Time spent: strengthen 40%, focus 30%, experiment 30%*

Key performance indicators

User satisfaction	Start Q3: 28%	End Q3: 35%	YoY
Zero Results Rate	Start Q3: 26%	End Q3: 30% (actually a decrease this quarter; seasonality makes metric fluctuate)	YoY

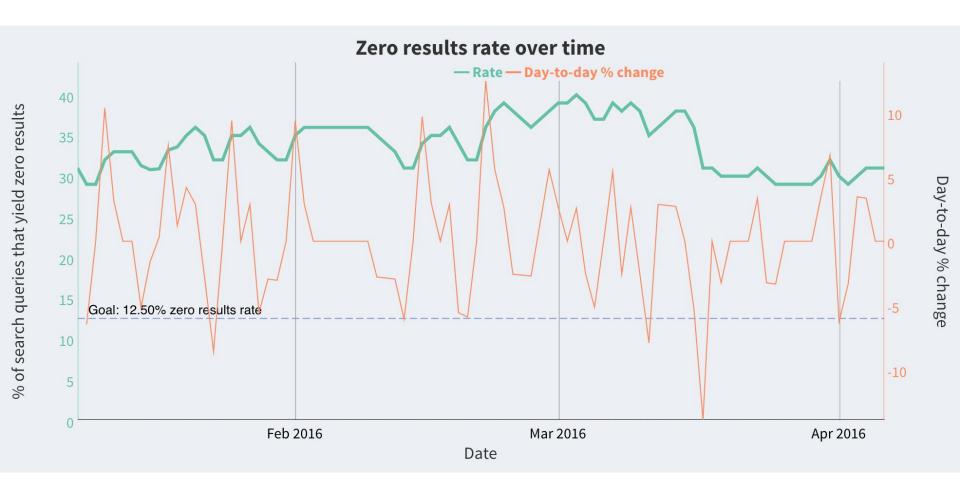
Objective: Improve intra-wiki relevance

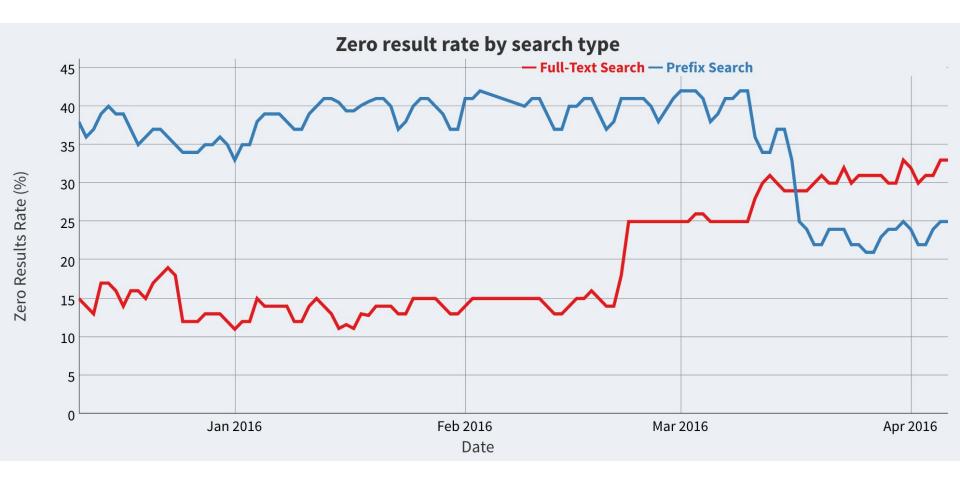


Objective	Measure of success	Status
Improve relevance of intra- wiki results. Team members involved: 6	Roll out <u>completion suggester</u> as a beta feature. Depending on user feedback and metrics, roll out completion suggester as production feature.	Completion suggester was rolled out as beta feature at end of Q2 Feedback on suggester was positive, with bugs reported and fixed
	Review ElasticSearch configuration and use RelForge to optimise configuration for relevance. Integrate page view data into result ranking to improve relevance.	Page view data was integrated into completion suggester ranks Completion suggester was rolled out to production on all wikis in collaboration with Comms A/B test on phrase rescore was run after RelForge optimisation

Completion suggester launch significantly reduced the zero results rate (see graphs on next slides)

<u>Next quarter</u>: focus on improving language support for multilingual users and on upgrading ElasticSearch to improve completion suggester.





Objective: Generate satisfaction model



Objective	Measure of success	Status
Generate a model for user satisfaction with search results based on qualitatively-validated quantitative data. Team members involved: 0	Run survey on-wiki asking users who came from search if they found what they're looking for. Tie responses back to clickthrough data and use to validate search satisfaction metric.	Insufficient capacity in team in Q3 to proceed with this goal Team will continue to use existing, unvalidated model

Objective: Improve www.wikipedia.org



Objective	Measure of success	Status
Make <u>www.wikipedia.org</u> a portal for exploring open content on Wikimedia sites. <i>Team members involved: 4</i>	Run at least 3 A/B tests aiming to decrease page's 60% bounce rate by increasing 30% search rate and 10% language link click rate. Graduate at least 1 successful A/B test to production on the portal.	Two A/B tests ran successfully: search box update and detecting browser language. Third test was not run due to running out of time. Team size was decreased by 1 in March.
		First test was successful at increasing search rate and was pushed to production (see appendix for screenshot).

<u>Analysis</u> of the search box test showed a significant improvement with 1.7 to 5.5% more sessions ending in a click-through to search results. This increase corresponded with a decrease in the page's bounce rate, showing that these extra clicks were not cannibalised from other interface interaction.

Analysis of the browser language test is still in progress and more A/B tests are planned for Q4.

Objective: Upgrade Wikidata Query Service



Objective	Measure of success	Status
Support ongoing stability and add ability to support geocoordinate functionality by upgrading Wikidata Query Service to Blazegraph 2.0. Team members involved: 2	Upgrade to Blazegraph 2.0. Figure out what we need to do to support geocoordinate functionality in Wikidata Query Service.	Successfully upgraded to Blazegraph 2.0 Proof of concept created in Labs for geocoordinate support

Operational responsibility for Query Service in the process of being transitioned to Guillaume Lederrey, Discovery's new operations engineer.

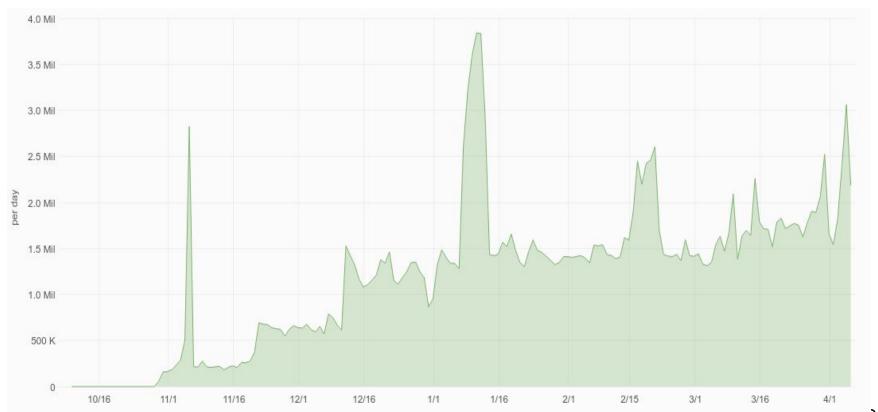
Next quarter: implement and release geocoordinate functionality.

Objective: Migrate Wikivoyage to new map tile service



Objective	Measure of success	Status
Improve the content discovery experience by switching the default tile service to the Wikimedia Maps Tile Server on all Wikivoyages. Team members involved: 3	Encourage most active Wikivoyage contributors to switch to Wikimedia maps tile server. Change default tile service for Wikivoyage across all languages to Wikimedia maps tile server. Increase unique users of Wikimedia maps tile server.	All WikiVoyage except NL-wv has switched to the new map tile service. https://grafana.wikimedia. org/dashboard/db/service-maps-varnish

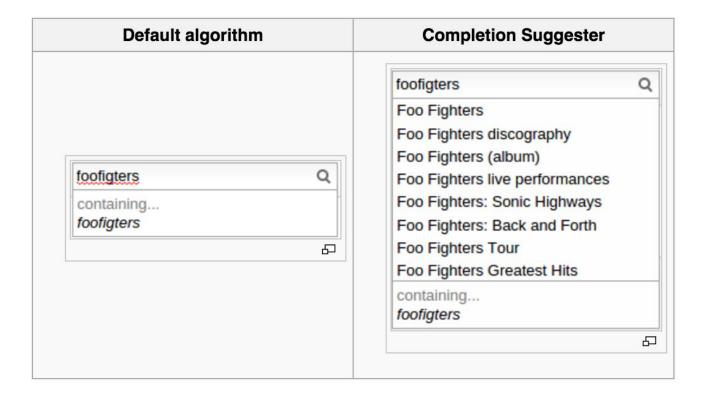
Map Tile Servers Usage





Category	Workflow	Comments	Туре
Operational excellence	Onboard operations engineer	Guillaume Lederrey joined Discovery as an Operations engineer in Q3. He was onboarded and operational responsibilities were transferred to him.	N
	Encrypt ElasticSearch traffic	Encrypt traffic between Elasticsearch and MediaWiki, increasing security and ensures content can be served in the case of failure of primary data centre. (Almost all the work was undertaken in Q3; the work was finished in the few days between the end of the quarter and the creation of this slide deck)	N
	Upgrade Elasticsearch to 1.7	Upgrade Elasticsearch to 1.7, improving performance and facilitating our upgrade to Elasticsearch 2.x (and, later, Elasticsearch 5.x).	M





Appendix: Wikipedia portal search improvements



