WAR MAPS

2026 / A solid first year

Selected posters, memorial artwork and the human cost of organized conflict.

Sid J.A. Hubbard / Principal Investigator

Print collection / version 0.12.0

Large-format and US Letter mini-poster editions. Scan either code or use the clickable links to explore the atlas, clone the project, inspect the data and rebuild these publications.

https://sjah9.github.io/war-maps-project/
https://github.com/SJAH9/war-maps-project

OPEN THE ATLAS

sjah9.github.io/
war-maps-project/

CODE + DATA / GITHUB

github.com/SJAH9/
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In this collection

Mortality 2024

Mortality 2025

Mortality 2026

Russia Ukraine Deaths 2024 Circle

Russia Ukraine Deaths 2025 Circle

Russia Ukraine Deaths 2026 Circle

Russia Ukraine Two Views 2026

Event Networks 2026

Event Networks All Time

Conflict Networks Top 10 Mortality

Afterimages Network

Afterimages Network Artist Edit

One death per dot. The 2024 and 2025 posters use full-year records; 2026 covers the loaded January-August candidate releases. The Letter edition scales the same vector pages proportionally: zoom in to inspect individual dots and dense graph labels. The large-format edition retains poster-size pages.

The following About and Sources sections reproduce the website content and retain its links. The Ephemeris and unselected network studies are excluded from this edition.

An open atlas of organized armed conflict

The War Maps Project is an open, reproducible interface to publicly available evidence about organized armed conflict from 1946 to the present source boundary. It exists to help people understand conflicts they encounter in the news or in their own lives, without providing strategic advantage to any party.

Origins and purpose

The project makes visible relationships that isolated records and daily reporting can conceal: who is present, where observations occur, how participation changes over time, and where the human costs sit within wider living conditions. Its hope is straightforward: clearer public understanding can make avoidable conflict harder to sustain and its human cost harder to disregard.

War Maps is apolitical in purpose. It does not collect conflict observations, conduct surveillance, advise combatants, rank the legitimacy of parties, or infer legal responsibility from visual position. It combines records maintained by named public and institutional sources, then exposes the joins, transformations, coverage, and uncertainty behind every view.

The project originates in the causal framework developed in Causality and Attraction, Volume I and Nested Causal Modelling. War Maps applies nested causal modelling to the documented structure surrounding armed conflict. It is intended to develop into navigable nested causal models of every organized conflict for which peer-reviewed or institutionally maintained data are available.

Causality and Attraction research record

Nested Causal Modelling on Amazon

Nested Causal Modelling on ElevenReader

Source code and data on GitHub

Principal Investigator

Sid J.A. Hubbard is the Principal Investigator of the War Maps Project. At this stage, the entirety of the atlas is written, directed, and engineered by its Principal Investigator with the assistance of AI and data-science tools. Decisions about scope, interpretation, publication, and corrections remain with the Principal Investigator.

Sid J.A. Hubbard

Research and interventions

LinkedIn

Open source and citation

War Maps software and original project documentation are published under the MIT License. Upstream datasets retain their own licenses and citation requirements. Books and other authored publications linked above are not relicensed by the repository license.

War Maps Project. (2026). War Maps: An Atlas of Organized Armed Conflict [Data set, software, and interactive atlas]. Sid J.A. Hubbard, Principal Investigator. https://github.com/SJAH9/war-maps-project

Data provenance for every map layer

Cite the atlas for project transformations and each upstream producer for the observations reused in analysis.

Source refresh · 19 October 2026: U.S., Delhi and Taiwan fuel observations, ECB and Taiwan exchange rates, and the frozen ICEYE orbit snapshot were refreshed. World Bank population revised aggregate records, with country values unchanged. UCDP historical and January–August candidate files, crude birth rates, life expectancy and selected drone incidents remain unchanged. V-Dem v16 and IHME GBD 2023 remain the latest listed releases; retained or inaccessible inputs are not relabelled as current. Read the source-by-source refresh audit.

The dedicated Gas and Civilian Casualties source guide records the new maps' publisher links, observation dates, geographic resolution, units, currency conversion, external Gaza context, and exclusions.

Uppsala Conflict Data Program

UCDP/PRIO Armed Conflict Dataset and UCDP Candidate Events Dataset. Cite the exact version disclosed in the repository build and follow UCDP terms.

UCDP downloads and documentation

V-Dem Institute

Varieties of Democracy country-year dataset. Cite the loaded release and the V-Dem codebook for regime and indicator definitions.

V-Dem dataset and documentation

IHME

Global Burden of Disease 2023 mortality and fertility results. Cite the GBD 2023 study and comply with IHME download terms.

GBD Results tool

Long-run life expectancy

Riley (2005), Zijdeman et al. (2015), HMD (2025), and UN WPP (2024), with Our World in Data processing. Riley supplies the peer-reviewed historical source; post-1950 estimates use UN WPP 2024.

Compiled data

Riley (2005), peer reviewed

World Bank and UN Population Division

WDI indicators SP.DYN.CBRT.IN and SP.POP.TOTL distribute crude birth rate and total population, sourced primarily from UN World Population Prospects, under CC BY 4.0.

Crude birth-rate metadata

Total-population metadata

UN World Population Prospects

Network science

Barabási's open textbook supplies the network-science concepts. Graphology supplies browser-side components and normalized betweenness algorithms.

Network Science

Graphology standard library

Natural Earth

Public-domain reference geometry used to draw countries and coastlines.

Natural Earth

Organization-source notes

BRICS source availability: The roster used in this build was retrieved from BRICS Brazil on September 21, 2026. The original address, https://brics.br/en/about-the-brics, failed DNS resolution when checked on September 23. Membership observations and their original attribution are unchanged. The Library of Congress BRICS background and source guide provides an accessible route to institutional references; it is a source guide, not a replacement dataset.

The organization layer uses the UN member-state roster, NATO member countries, the BRICS roster provenance and source guide, the EU member roster, and the ASEAN member roster. The World Economic Forum membership source describes company and stakeholder communities; it is kept as non-state organization metadata and is not inferred as state membership.

Atlas citation

War Maps Project. (2026). War Maps: An Atlas of Organized Armed Conflict [Data set, software, and interactive atlas]. Sid J.A. Hubbard, Principal Investigator. https://github.com/SJAH9/war-maps-project

Generated tables and transformed joins should attribute the War Maps Project. Source variables and observations remain attributable to UCDP, V-Dem, IHME, the World Bank, the UN Population Division, and Natural Earth as applicable.

Install War Maps

War Maps can be installed as a standalone web app on supported mobile and desktop browsers. Open the site online once before using its offline reading pages.

Android and desktop

Use the Install War Maps button when your browser offers it, or choose Install app from the browser menu.

iPhone and iPad

In Safari, open the Share menu and choose Add to Home Screen, then Open as Web App if offered.

Partial offline access

The start page, About, Sources, installation guide and publications index are saved on your first successful visit. Small same-origin resources visited online can also be retained in a bounded cache. Live news, external map libraries and tiles, large datasets and PDF downloads require a connection unless separately downloaded. Installing the app does not download the whole atlas.

Offline pages reflect the last saved version; reconnect to refresh them. Browser storage can be cleared or evicted. To remove saved content, clear this site's storage in your browser settings.

War Maps in print

Read, print and adapt the curated 2026 poster collection. Both ebooks include the project's About and Sources content, source links and QR routes to the atlas and its code.

War Posters / large-format ebook

War Maps / 8.5 x 11 inch mini-poster ebook

Individual posters and release files

Rebuild and reuse

Clone the repository, install requirements.txt, and run python -m src.generate_publications. The explicit publication selection controls both ebooks. Retain source attribution when using the posters in art, media, teaching or public discussion. The Ephemeris and unselected network studies are not part of this release.

Roadmap

This is the last meaningful War Maps release planned for 2026: a solid first year. Next come a network-science and cybersecurity-focused ebook, improved network interfaces and visual language for dense event records, and data-source upgrades with clearer source-version tracking.

Install the mobile-friendly app and learn what works offline.

WAR MAPS

THE STRUCTURE OF CONFLICT

2024 / THE HUMAN COST

REPORTED FATAL CASUALTIES

188,209

Deaths only | January-December | Reviewed GED 26.1 | Full calendar year

34,895

CIVILIAN DEATHS

Included in the total above, not additional deaths.

ONE DOT = ONE REPORTED DEATH

Civilians: 34,895

Warfighters / coded sides: 120,643

Unknown status: 32,671

EVERY MARK COUNTS. UNKNOWN DOES NOT MEAN COMBATANT.

Read left to right, top to bottom: civilian deaths in red, deaths attributed to the fighting sides in blue, then unknown status in grey-brown. Each dot represents one unit in the reported best estimates, not an identified individual. No scaling, rounding or sampling is used. The civilian count is a subset of the total; deaths are represented only once. The 2024, 2025 and 2026 posters share an identical dot scale; unused grid space is intentional.

Source: UCDP reviewed GED 26.1; 30,066 distinct event IDs. Newer revisions replace matching IDs. Total = deaths_a + deaths_b + deaths_civilians + deaths_unknown. 'Warfighters' is shorthand for source-coded side A/B deaths, not independently verified individual status. These are full-year sums of reviewed event estimates, not a census of identified individuals. Compare with caution: the 2026 poster covers only the loaded partial-year candidate releases. Injuries and indirect deaths outside the source's scope are not counted.

Attribution: Uppsala Conflict Data Program (CC BY 4.0); Sundberg & Melander (2013). Definitions: https://ucdp.uu.se/downloads/ged/ged261.pdf. Exact totals, included event IDs and source releases accompany this PDF in war-maps-mortality-2024.json.

The War Maps Project

PUBLIC EVIDENCE / CONNECTED

OPEN THE ATLAS

sjah9.github.io/
war-maps-project/

CODE + DATA / GITHUB

github.com/SJAH9/
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WAR MAPS

THE STRUCTURE OF CONFLICT

2025 / THE HUMAN COST

REPORTED FATAL CASUALTIES

245,464

Deaths only | January-December | Reviewed GED 26.1 | Full calendar year

91,566

CIVILIAN DEATHS

Included in the total above, not additional deaths.

ONE DOT = ONE REPORTED DEATH

Civilians: 91,566

Warfighters / coded sides: 123,351

Unknown status: 30,547

EVERY MARK COUNTS. UNKNOWN DOES NOT MEAN COMBATANT.

Read left to right, top to bottom: civilian deaths in red, deaths attributed to the fighting sides in blue, then unknown status in grey-brown. Each dot represents one unit in the reported best estimates, not an identified individual. No scaling, rounding or sampling is used. The civilian count is a subset of the total; deaths are represented only once. The 2024, 2025 and 2026 posters share an identical dot scale; unused grid space is intentional.

Source: UCDP reviewed GED 26.1; 25,770 distinct event IDs. Newer revisions replace matching IDs. Total = deaths_a + deaths_b + deaths_civilians + deaths_unknown. 'Warfighters' is shorthand for source-coded side A/B deaths, not independently verified individual status. These are full-year sums of reviewed event estimates, not a census of identified individuals. Compare with caution: the 2026 poster covers only the loaded partial-year candidate releases. Injuries and indirect deaths outside the source's scope are not counted.

Attribution: Uppsala Conflict Data Program (CC BY 4.0); Sundberg & Melander (2013). Definitions: https://ucdp.uu.se/downloads/ged/ged261.pdf. Exact totals, included event IDs and source releases accompany this PDF in war-maps-mortality-2025.json.

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WAR MAPS

THE STRUCTURE OF CONFLICT

2026 / THE HUMAN COST

REPORTED FATAL CASUALTIES

125,245

Deaths only | January-August releases | Provisional, partial year

21,000

CIVILIAN DEATHS

Included in the total above, not additional deaths.

ONE DOT = ONE REPORTED DEATH

Civilians: 21,000

Warfighters / coded sides: 74,664

Unknown status: 29,581

EVERY MARK COUNTS. UNKNOWN DOES NOT MEAN COMBATANT.

Read left to right, top to bottom: civilian deaths in red, deaths attributed to the fighting sides in blue, then unknown status in grey-brown. Each dot represents one unit in the reported best estimates, not an identified individual. No scaling, rounding or sampling is used. The civilian count is a subset of the total; deaths are represented only once. The 2024, 2025 and 2026 posters share an identical dot scale; unused grid space is intentional.

Source: UCDP candidate observations, January-August releases; 13,659 distinct event IDs. Newer revisions replace matching IDs. Total = deaths_a + deaths_b + deaths_civilians + deaths_unknown. 'Warfighters' is shorthand for source-coded side A/B deaths, not independently verified individual status. Candidate reports remain provisional; distinct observations may overlap. Recorded date intervals extend through 2026-09-10. This partial-year sum is not directly comparable to a full calendar year. Injuries and indirect deaths outside the source's scope are not counted.

Attribution: Uppsala Conflict Data Program (CC BY 4.0); Sundberg & Melander (2013). Definitions: https://ucdp.uu.se/downloads/candidateged/ucdp-candidate-codebook1.4.pdf. Exact totals, included event IDs and source releases accompany this PDF in war-maps-mortality-2026.json.

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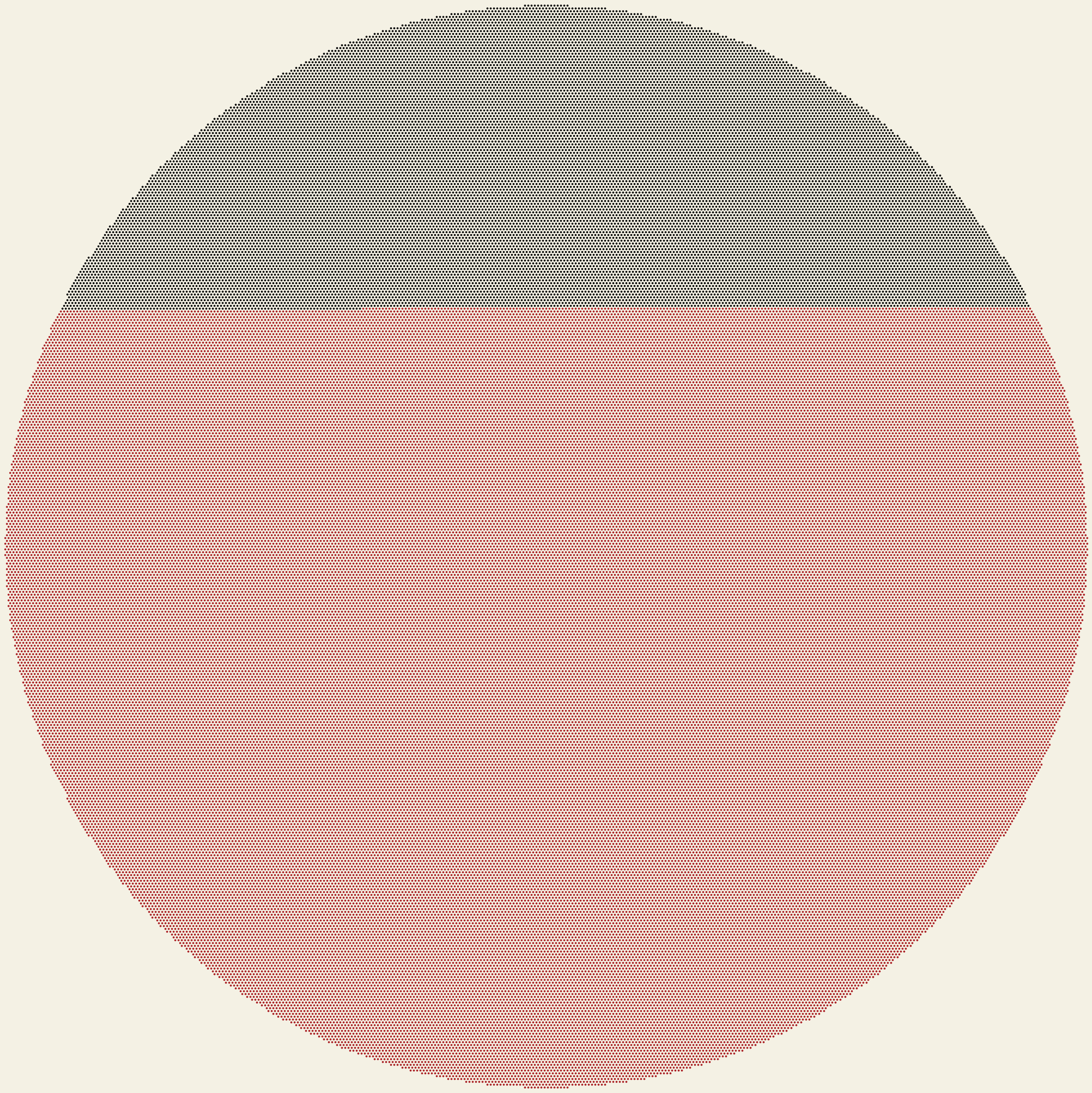
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RUSSIA-UKRAINE / 2024

102,120 DEATHS

ONE DOT / ONE DEATH



UKRAINIAN SIDE / 22,771

22.90% OF THE 99,437 DEATHS IN THE CIRCLE

CIVILIANS / 2,609

RUSSIAN SIDE / 76,666

77.10% OF THE 99,437 DEATHS IN THE CIRCLE

UNKNOWN SIDE / 74

Source: UCDP GED 26.1, January-December 2024. Counts sum the source best, deaths_a, deaths_b, deaths_civilians and deaths_unknown fields. Side labels follow the source records.

The circle contains recorded Russian-side and Ukrainian-side deaths. Civilian and unknown-side deaths appear outside the circle at the same dot size. All dots are individually drawn vectors.

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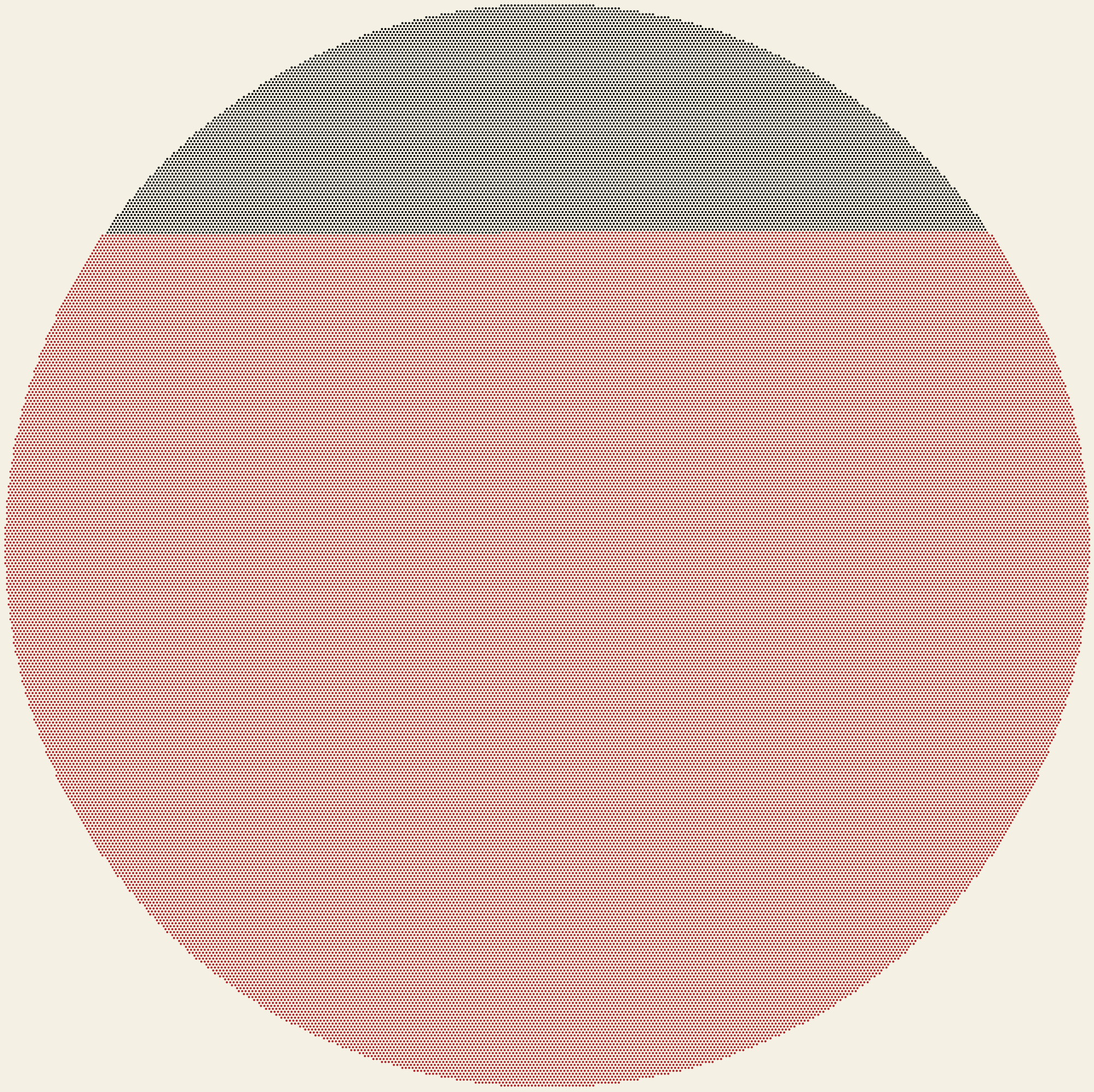
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RUSSIA-UKRAINE / 2025

94,741 DEATHS

ONE DOT / ONE DEATH



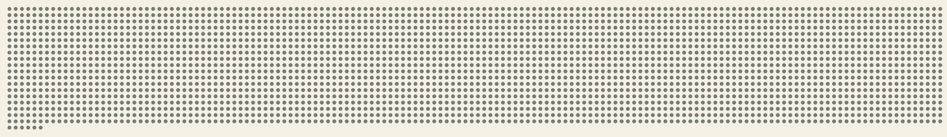
UKRAINIAN SIDE / 14,150

15.41% OF THE 91,829 DEATHS IN THE CIRCLE

RUSSIAN SIDE / 77,679

84.59% OF THE 91,829 DEATHS IN THE CIRCLE

CIVILIANS / 2,856



UNKNOWN SIDE / 56

Source: UCDP GED 26.1, January-December 2025. Counts sum the source best, deaths_a, deaths_b, deaths_civilians and deaths_unknown fields. Side labels follow the source records.

The circle contains recorded Russian-side and Ukrainian-side deaths. Civilian and unknown-side deaths appear outside the circle at the same dot size. All dots are individually drawn vectors.

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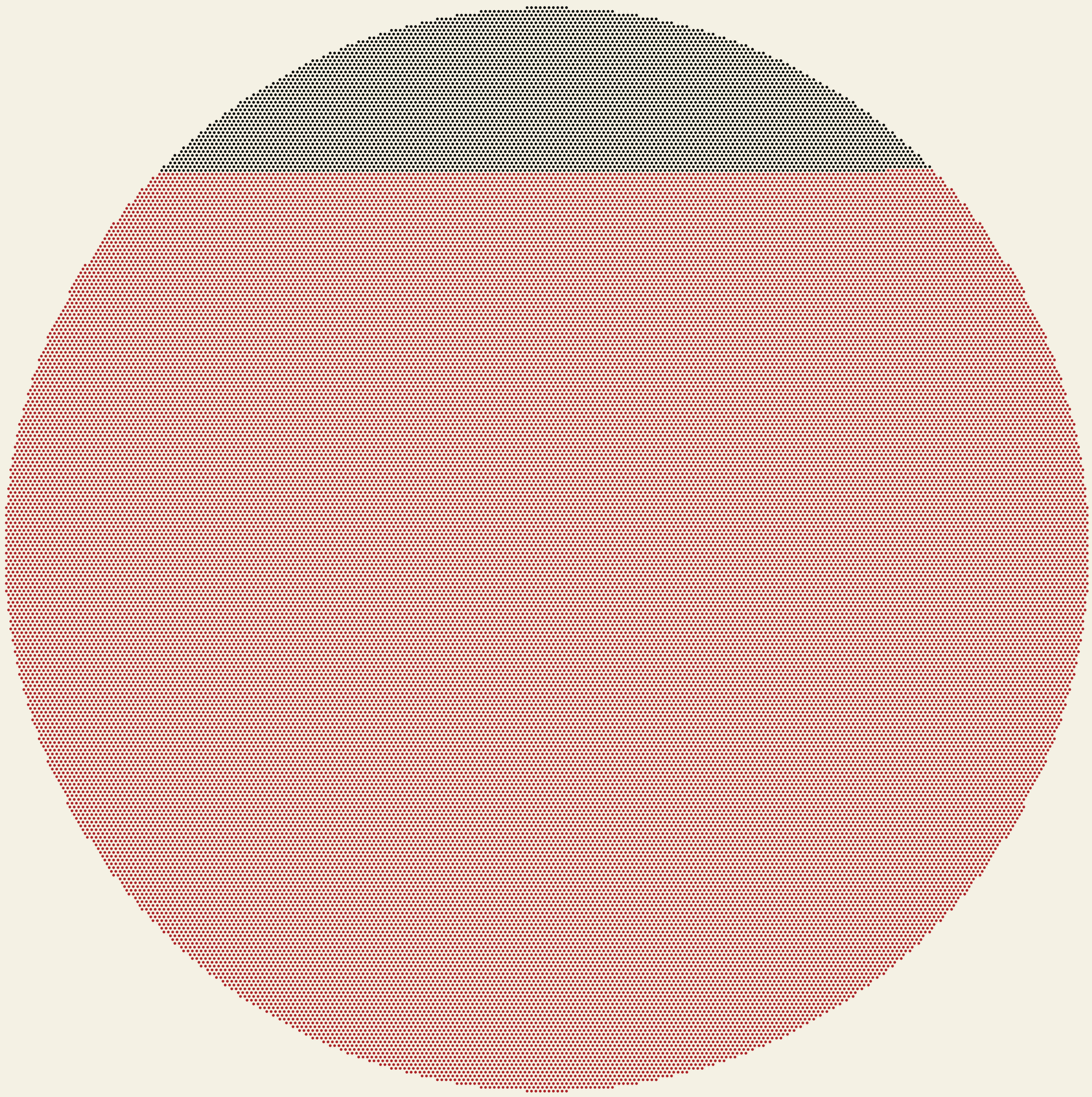
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RUSSIA-UKRAINE / 2026

57,840 DEATHS

ONE DOT / ONE DEATH



UKRAINIAN SIDE / 5,345

9.60% OF THE 55,700 DEATHS IN THE CIRCLE

RUSSIAN SIDE / 50,355

90.40% OF THE 55,700 DEATHS IN THE CIRCLE

CIVILIANS / 2,126



UNKNOWN SIDE / 14

Source: UCDP 2026 candidate event records, January-August 2026. Counts sum the source best, deaths_a, deaths_b, deaths_civilians and deaths_unknown fields. Side labels follow the source records.

The circle contains recorded Russian-side and Ukrainian-side deaths. Civilian and unknown-side deaths appear outside the circle at the same dot size. All dots are individually drawn vectors.

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WAR MAPS

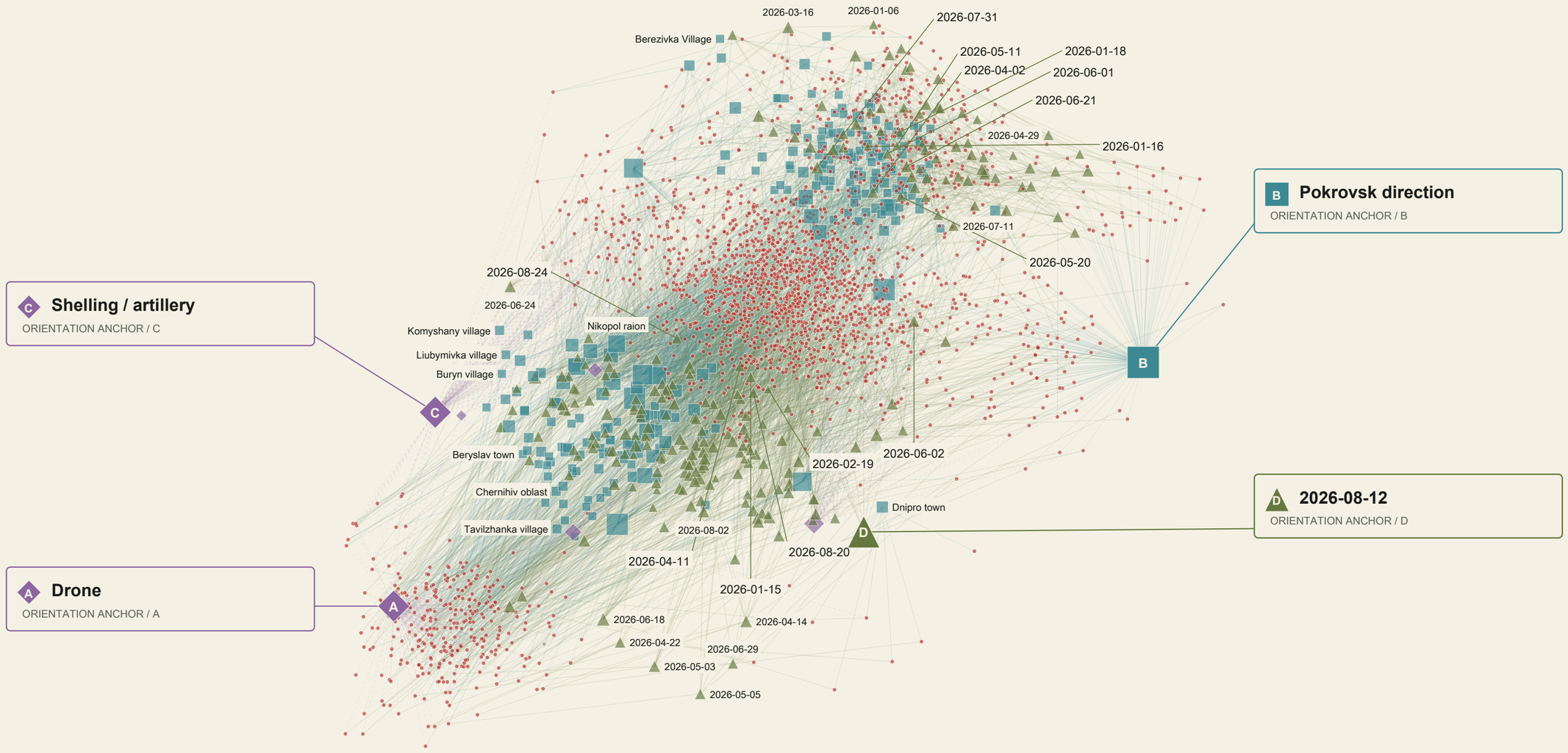
THE STRUCTURE OF CONFLICT

RUSSIA - UKRAINE

2026 / TWO VIEWS / ONE EVENT NETWORK /

2,294 events / 2,788 nodes / 4,561 source links / loaded 2026 records

01 / LATTICE (14) / OVERVIEW



2,786 nodes / 4,557 links shown; 2 nodes outside the saved camera

2,276 FATAL EVENTS / 57,840 DEATHS

UCDP records 2,294 events in this network. The death total includes 2,126 civilian deaths and 14 deaths coded unknown. Totals sum the UCDP best field. Event start dates span January 1-August 31, 2026; six event intervals end September 1.

PLACES, DAYS AND SHARED CONNECTIONS

The events connect through 245 shared place nodes, 243 exact-day nodes and six method-term nodes. The network has 21 connected components containing events. Removing date nodes produces 441 components; removing method nodes produces 34.

DRONE / SHELLING / POKROVSK

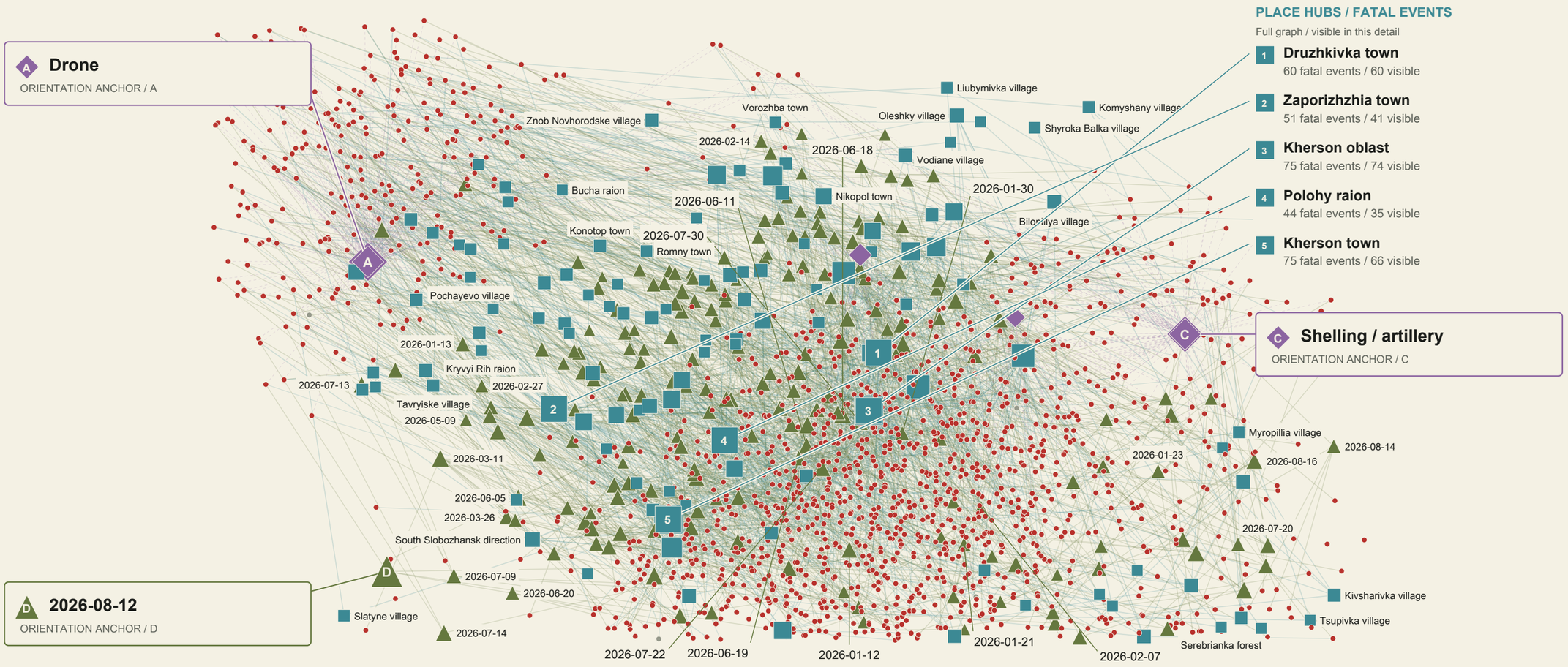
Drone connects 309 events; Shelling / artillery connects 141. Pokrovsk direction connects 129 events and ranks first in weighted betweenness, measuring its position on shortest paths through the network. Government affiliations remain in the event records; the graph connects events through shared attributes.

Fatal event · Zero / unknown deaths · Shared place · Exact day · Headline method

Place / day incidence · Method-term connections derived by War Maps · Node size: number of connections. Layout: saved 3D views.

READ THE TWO VIEWS: A / Drone, C / Shelling-artillery and D / 2026-08-12 identify matching nodes. Date labels locate exact-day connections. The numbered place list gives fatal-event totals for each hub, followed by the number visible in the foreground. Label leaders point to their nodes. The overview shows 2,786 nodes and 4,557 links; the foreground shows 1,958 nodes and 2,934 links from the same network.

02 / LATTICE (7) / FOREGROUND DETAIL



Source: Uppsala Conflict Data Program (UCDP), candidate event releases through August 2026. Event records and their source attribution are preserved in GraphML. War Maps derives method-term nodes from the source_headline field. Rebuild: python -m src.generate_view_comparison_posters

The War Maps Project

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WAR MAPS

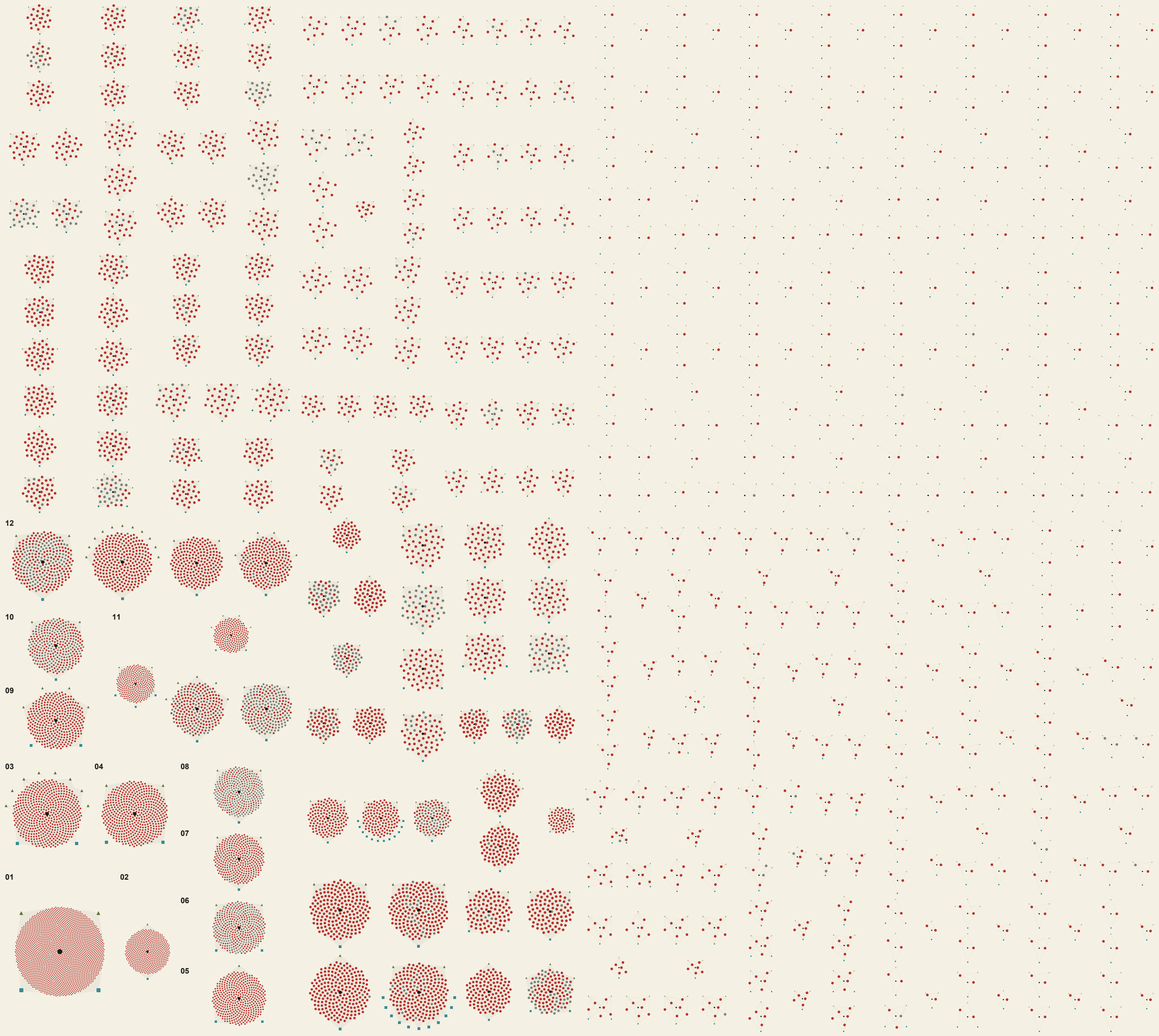
THE STRUCTURE OF CONFLICT

THE EVENT CONSTELLATION

2026

13,659 EVENTS / 539 CONFLICTS / 12,110 FATAL EVENTS

2026-01-01 to 2026-08-31 | 13,659 candidate records | No event sampling



NODE KEY

Black circle: conflict. Olive triangle: coded side. Teal square: event nation / country. Red dot: event with best fatality estimate > 0. Grey dot: zero or unknown best estimate. Thin grey lines connect every event to its conflict, recorded sides and country. Candidate and reviewed events use the same mortality colors.

LARGEST CONFLICT NETWORKS / NUMBERED IN THE FIELD

01 Russia - Ukraine / 2,294 events

02 XXX70 - XXX70 / 566 events

03 Israel: Palestine / 556 events

04 Israel: Southern Lebanon / 509 events

05 XXX100 - XXX100 / 420 events

06 Burkina Faso: Government / 406 events

07 Jalisco Cartel New Generation, Sinaloa Cartel - Los Chapitos - Sinaloa Cartel - Los Mayos / 367 events

08 Mali: Government / 363 events

09 Pakistan: Government / 355 events

10 Ethiopia: Government/Amhara / 328 events

11 Sudan: Government / 325 events

12 Pakistan: Balochistan / 301 events

READING THE STRUCTURE Each constellation is a conflict-specific incidence network: repeated events converge on shared sides and countries. Red concentrations reveal where fatal observations cluster. Sides and nations are repeated within each conflict, not merged into global actors; countries describe event locations, not citizenship or belligerency. Area allocation balances event volume and visibility. Spiral positions order events chronologically; distance is not geography or a measure of causality. Dense regions require digital zoom; the companion compressed JSON retains every event and link endpoint.

Sources: UCDP GED 26.1 (1989-2025) and locally loaded UCDP candidate releases through August 2026. Latest candidate revision replaces duplicate event IDs. All-time means available event history, not all wars in history; annual-only records are not invented as events. Network incidence representation informed by Barabasi, Network Science, chapter 2 (networksciencebook.com). No scale-free or causal claim.

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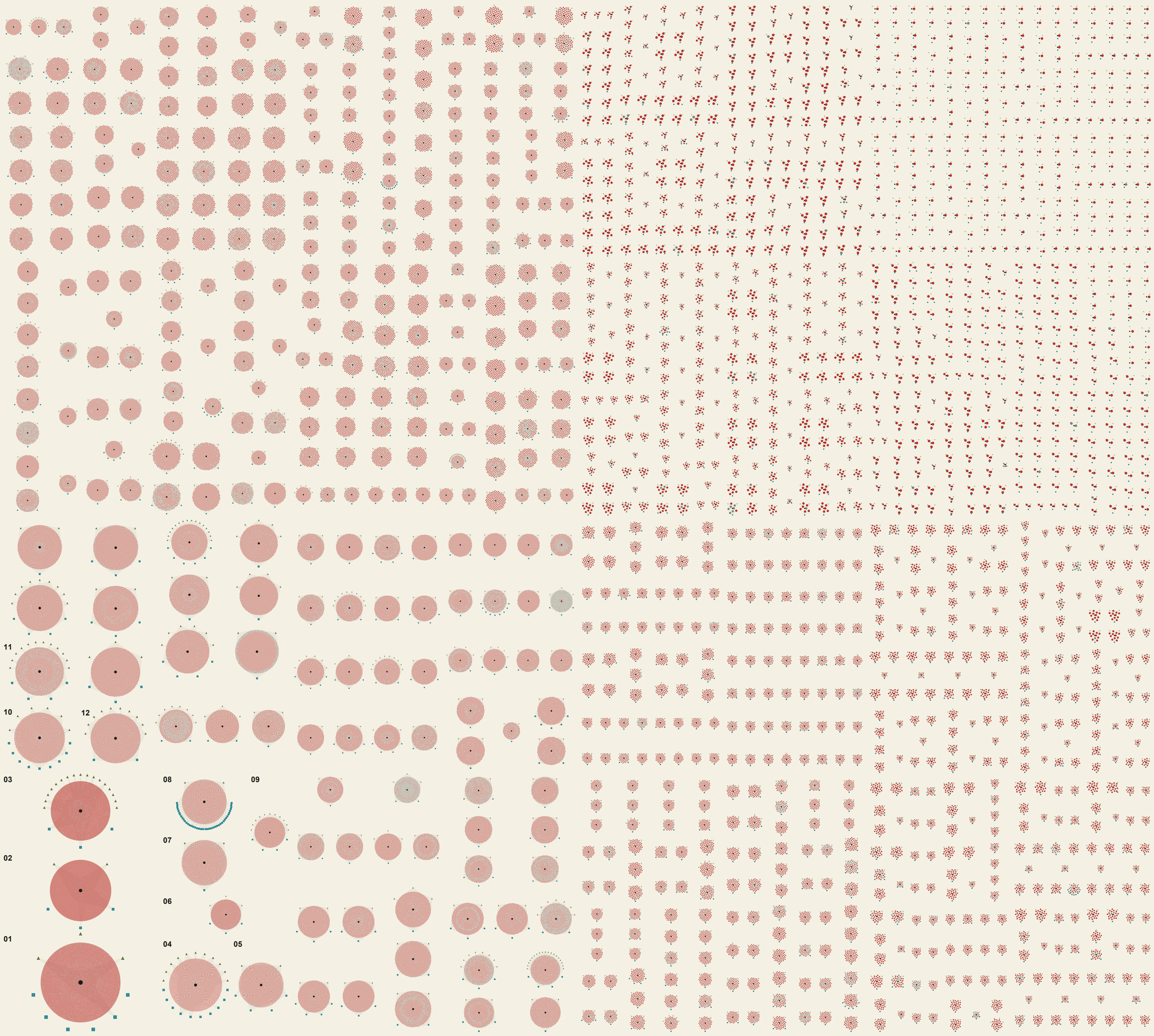
github.com/SJAH9/
war-maps-project

THE EVENT CONSTELLATION

ALL RECORDED YEARS

431,627 EVENTS / 1,886 CONFLICTS / 397,300 FATAL EVENTS

1989-01-01 to 2026-08-31 | 13,659 candidate records | No event sampling



NODE KEY

Black circle: conflict. Olive triangle: coded side. Teal square: event nation / country. Red dot: event with best fatality estimate > 0. Grey dot: zero or unknown best estimate. Thin grey lines connect every event to its conflict, recorded sides and country. Candidate and reviewed events use the same mortality colors.

LARGEST CONFLICT NETWORKS / NUMBERED IN THE FIELD

01 Syria: Government / 66,190 events

02 Russia - Ukraine / 40,186 events

03 Afghanistan: Government / 38,024 events

04 Israel: Palestine / 11,298 events

05 Turkey: Kurdistan / 8,283 events

06 India: Kashmir / 7,297 events

07 Syria: Islamic State / 6,726 events

08 IS - Civilians / 6,547 events

09 Colombia: Government / 6,401 events

10 Iraq: Government / 6,380 events

11 Somalia: Government / 5,895 events

12 Pakistan: Government / 5,672 events

READING THE STRUCTURE Each constellation is a conflict-specific incidence network: repeated events converge on shared sides and countries. Red concentrations reveal where fatal observations cluster. Sides and nations are repeated within each conflict, not merged into global actors; countries describe event locations, not citizenship or belligerency. Area allocation balances event volume and visibility. Spiral positions order events chronologically; distance is not geography or a measure of causality. Dense regions require digital zoom; the companion compressed JSON retains every event and link endpoint.

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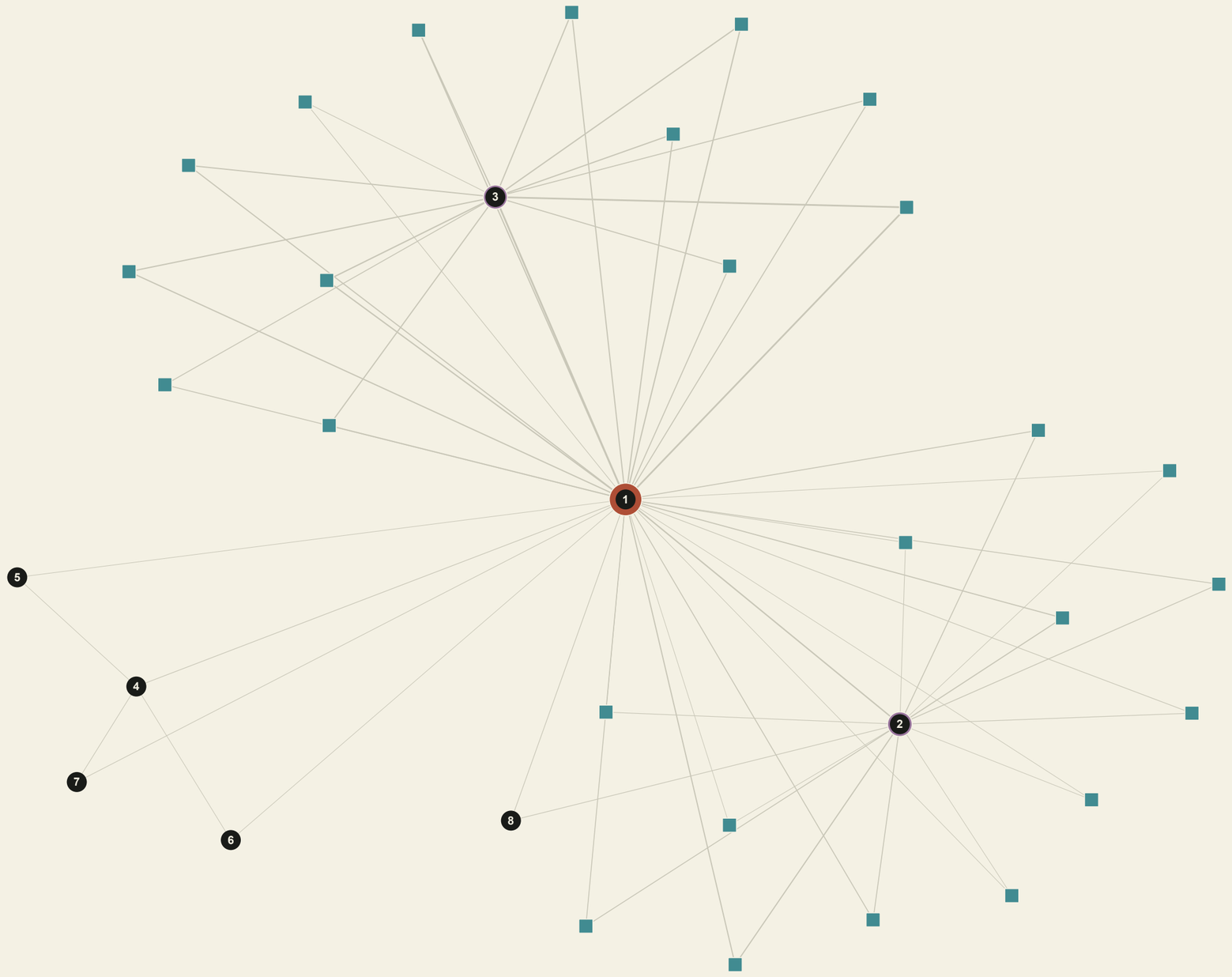
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MORTALITY RANK / 01 OF 10

Government of Rwanda - Civilians

1990-2025 / UCDP 472 / violence type 3

34 NODES 63 LINKS 2,430 EVENTS



READING THE FIELD

- Government actor
- Civilian category
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Rwanda / degree 33

02 Civilians / DR Congo (Zaire) / degree 15

03 Civilians / Rwanda / degree 14

04 Civilians / Burundi / degree 4

05 Burundi / Kirundo province / degree 2

06 Burundi / Muyinga province / degree 2

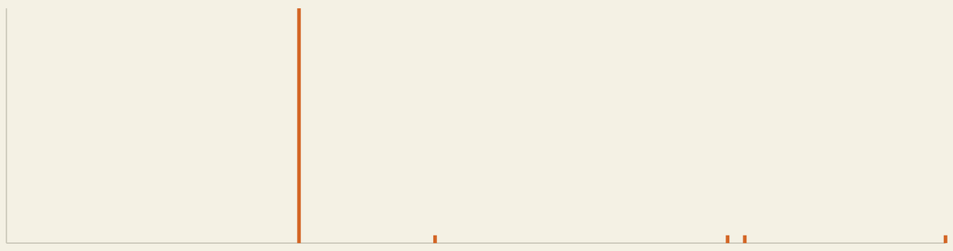
07 Burundi / Ngozi province / degree 2

08 DR Congo (Zaire) / Haut-Zaïre region / degree 2

Reported deaths (best): 794,375. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

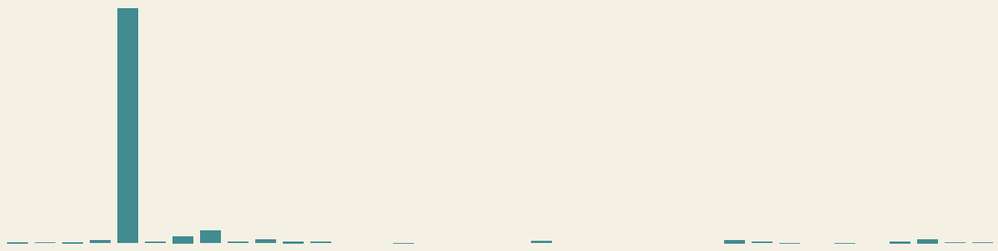
Nodes: 0-30; horizontal log(1+k)



Degree: 0 33

02 / RECORDED HISTORY

Events/year, max 2,030. Orange dots: annual-only years.



1990 2025

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 34 coded actors and geographic theatres in one relational field. Government of Rwanda reaches 33 distinct neighbours (100.0% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 1 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Rwanda (0.780; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1990-2025; 0 annual records complement 2,430 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-ged-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

The War Maps Project

PUBLIC EVIDENCE / CONNECTED

OPEN THE ATLAS
sjah9.github.io/
war-maps-project/

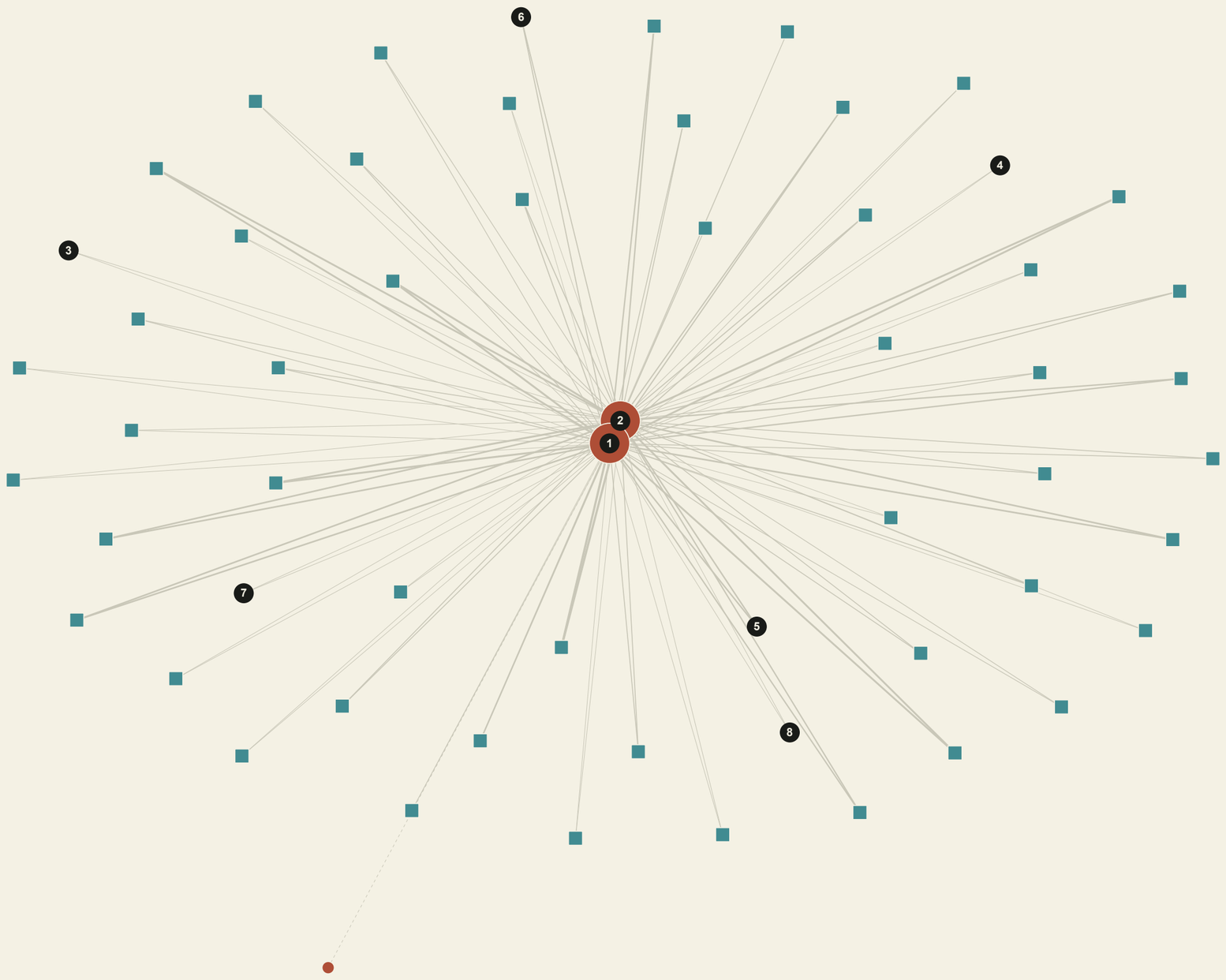
CODE + DATA / GITHUB
github.com/SJAH9/
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MORTALITY RANK / 02 OF 10

Russia - Ukraine

2014-2026 / UCDP 13243 / violence type 1

58 NODES 112 LINKS 40,186 EVENTS



READING THE FIELD

- Government actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Russia (Soviet Union) / degree 57

02 Government of Ukraine / degree 56

03 Poland / Lubelskie voivodeship / degree 2

04 Russia (Soviet Union) / Bashkortostan republic / degree 2

05 Russia (Soviet Union) / Belgorod oblast / degree 2

06 Russia (Soviet Union) / Bryansk oblast / degree 2

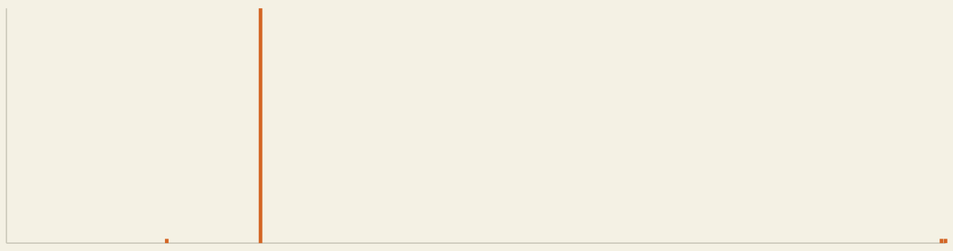
07 Russia (Soviet Union) / Chechnya republic / degree 2

08 Russia (Soviet Union) / Khabarovsk krai / degree 2

Reported deaths (best): 430,433. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

Nodes: 0-55; horizontal log(1+k)



Degree: 0 57

02 / RECORDED HISTORY

Events/year, max 11,792. Orange dots: annual-only years.



2014 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 58 coded actors and geographic theatres in one relational field. Government of Russia (Soviet Union) reaches 57 distinct neighbours (100.0% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 1 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Russia (Soviet Union) (0.500; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 2014-2026; 4 annual records complement 40,186 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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CODE + DATA / GITHUB

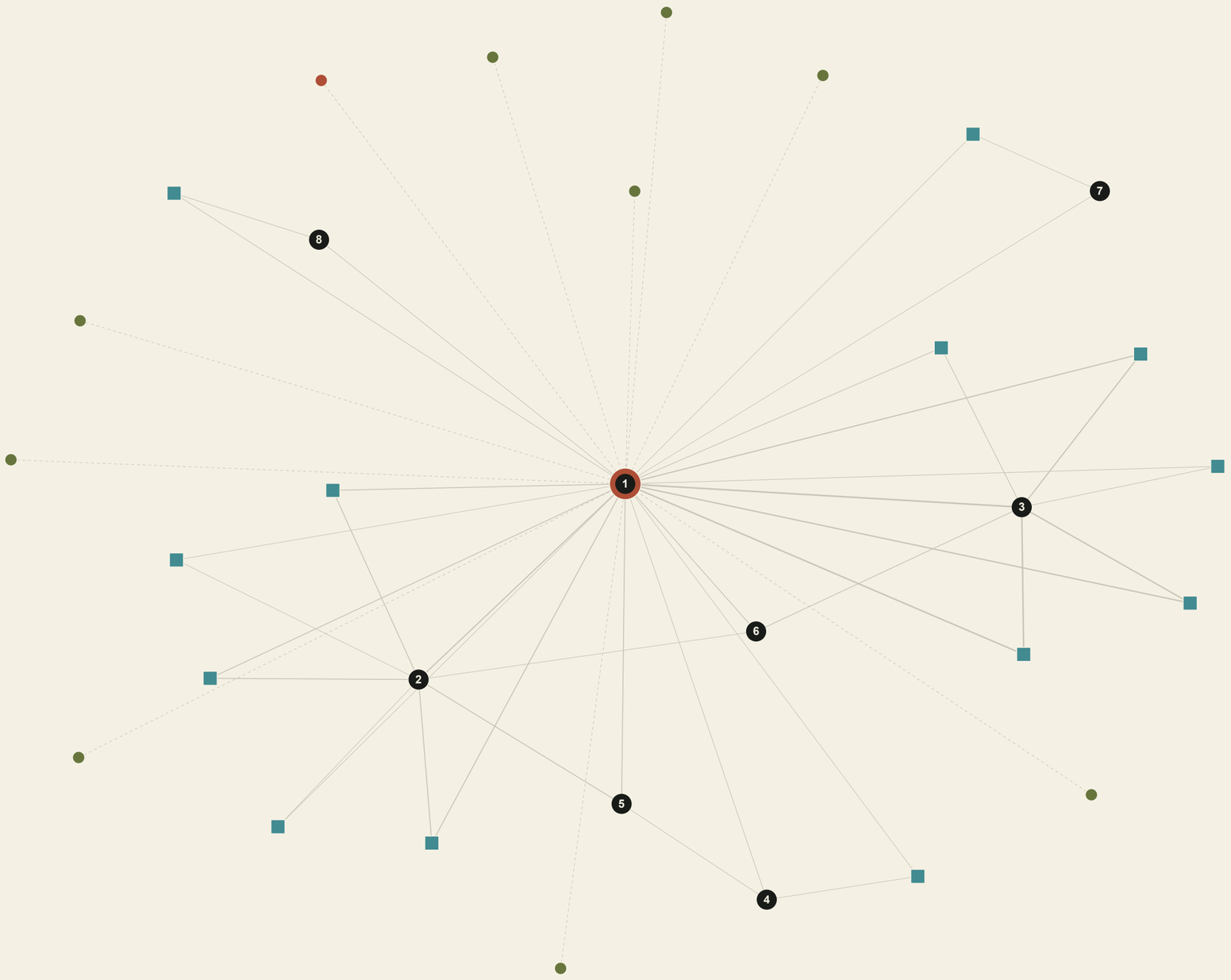
github.com/SJAH9/
war-maps-project

MORTALITY RANK / 03 OF 10

Ethiopia: Government

1960-2026 / UCDP 267 / violence type 1

31 NODES 47 LINKS 865 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Ethiopia / degree 30

02 EPRDF / degree 8

03 TPLF / degree 7

04 Military faction (forces of Amsha Desta and Merid Negusie) / degree 3

05 Ethiopia / Shewa province / degree 3

06 Ethiopia / unspecified subdivision / degree 3

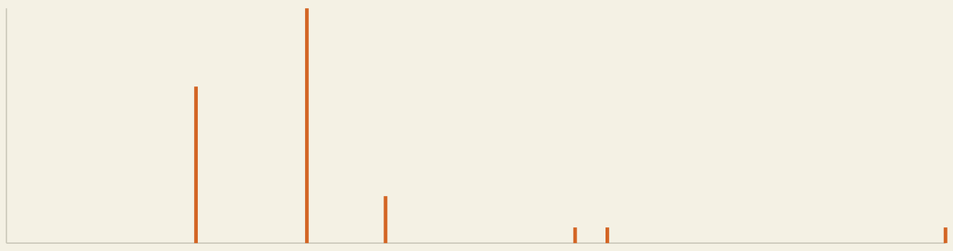
07 Forces of Harar garrison / degree 2

08 GLF / degree 2

Reported deaths (best): 349,627. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

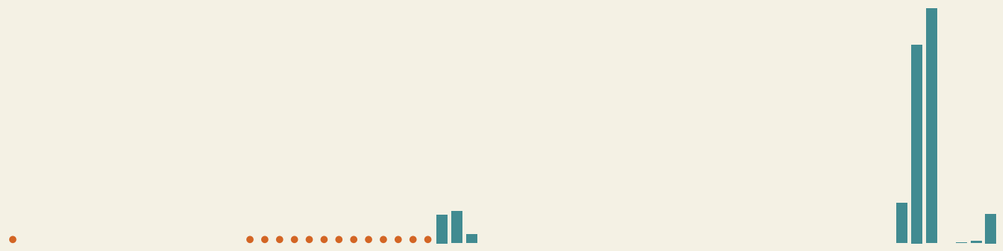
Nodes: 0-15; horizontal log(1+k)



Degree: 0 30

02 / RECORDED HISTORY

Events/year, max 354. Orange dots: annual-only years.



1960 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 31 coded actors and geographic theatres in one relational field. Government of Ethiopia reaches 30 distinct neighbours (100.0% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 1 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Ethiopia (0.916; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1960-2026; 20 annual records complement 865 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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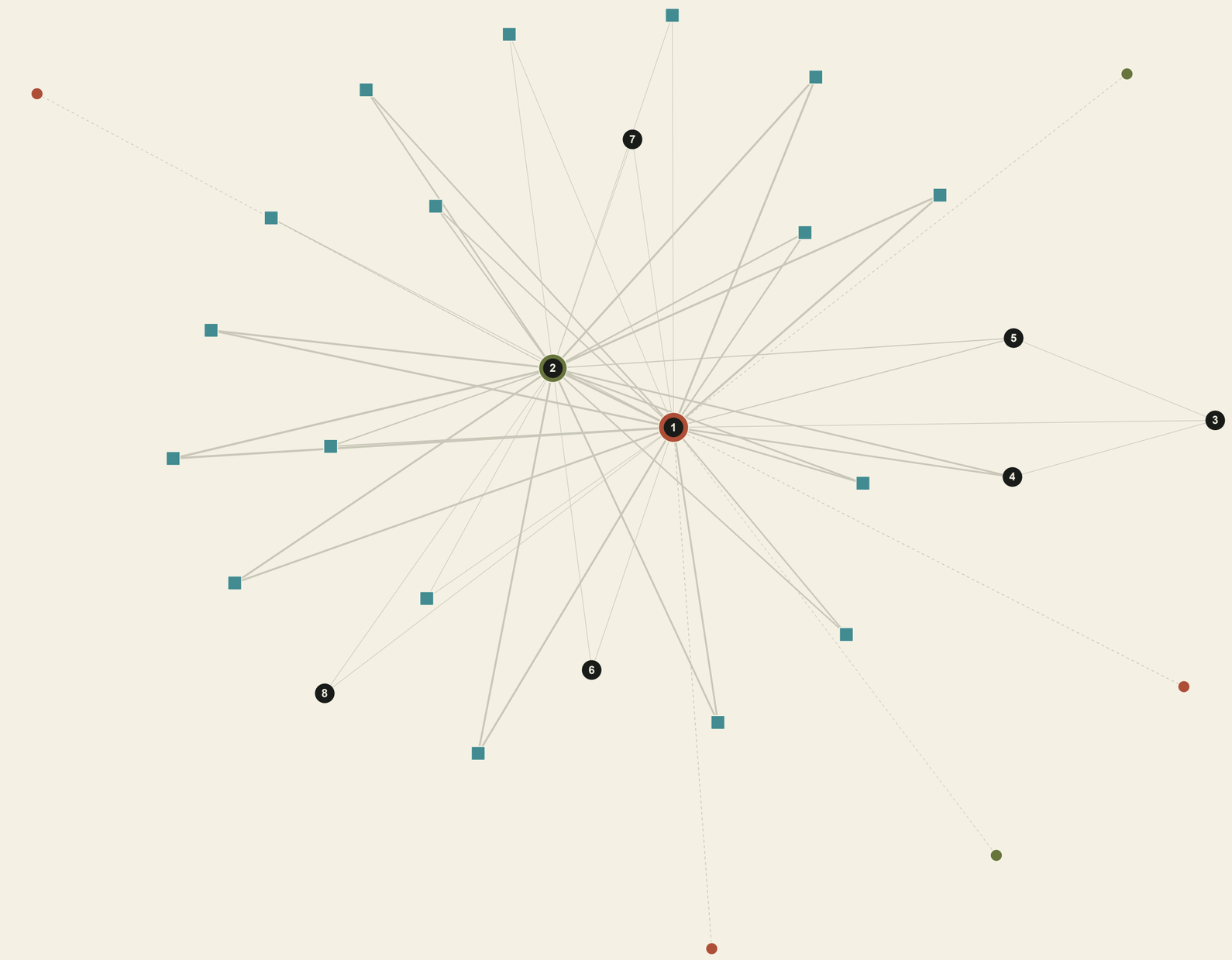
CODE + DATA / GITHUB
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MORTALITY RANK / 04 OF 10

Syria: Government

1966-2025 / UCDP 299 / violence type 1

30 NODES 53 LINKS 66,190 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Syria / degree 28

02 Syrian insurgents / degree 24

03 Military Council for the Liberation of Syria / degree 3

04 Syria / Latakia governorate / degree 3

05 Syria / Tartus governorate / degree 3

06 Iraq / unspecified subdivision / degree 2

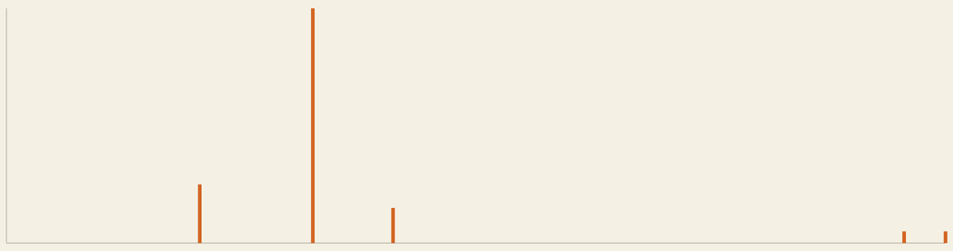
07 Jordan / unspecified subdivision / degree 2

08 Lebanon / Aakkar province / degree 2

Reported deaths (best): 287,894. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

Nodes: 0-20; horizontal log(1+k)



02 / RECORDED HISTORY

Events/year, max 17,705. Orange dots: annual-only years.



03 / WHAT THE NETWORK MAKES VISIBLE

The network places 30 coded actors and geographic theatres in one relational field. Government of Syria reaches 28 distinct neighbours (96.6% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 2 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Syria (0.596; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1966-2025; 20 annual records complement 66,190 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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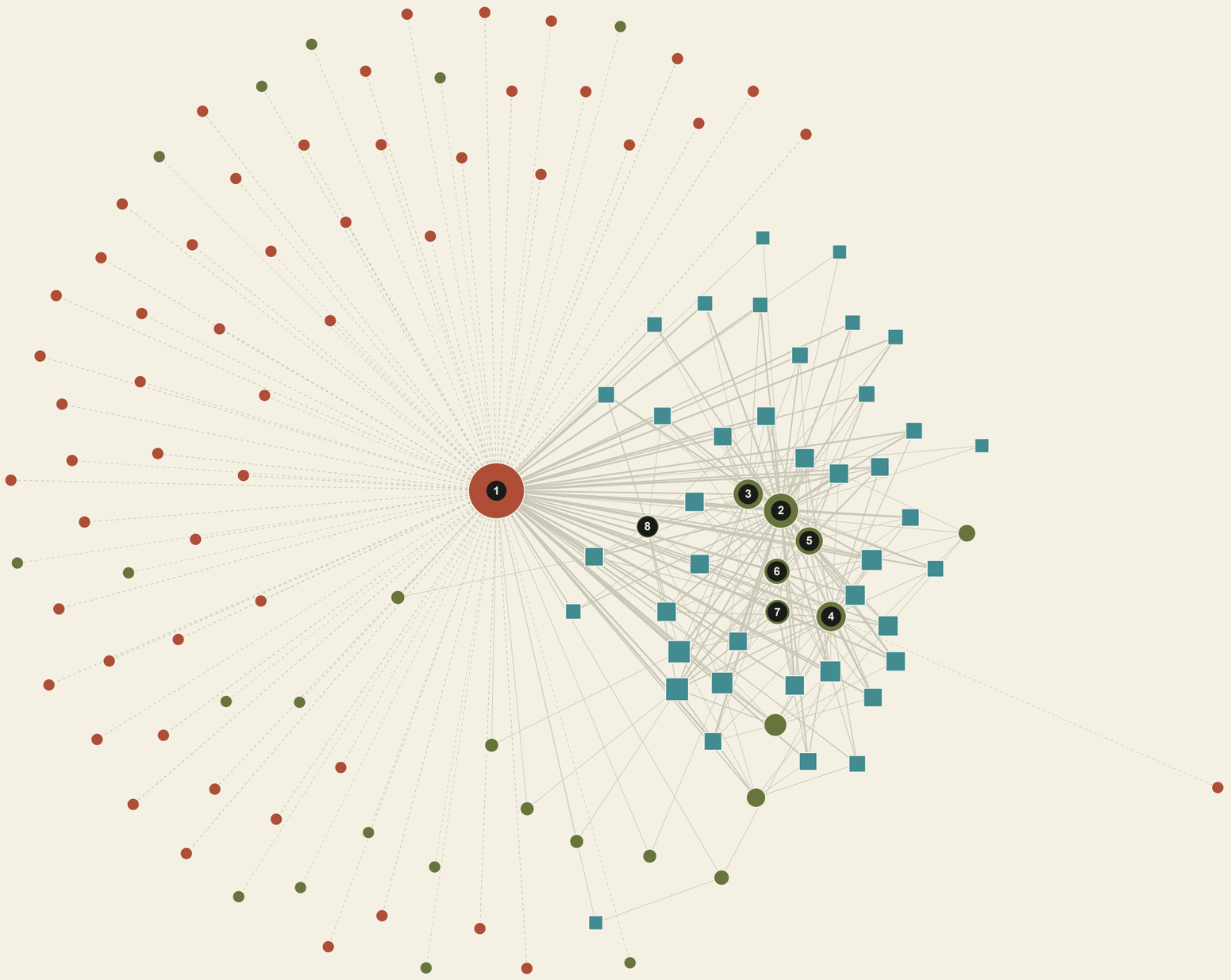
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MORTALITY RANK / 05 OF 10

Afghanistan: Government

1978-2026 / UCDP 333 / violence type 1

126 NODES 307 LINKS 38,024 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Afghanistan / degree 124

02 Taleban / degree 40

03 Hizb-i Islami-yi Afghanistan / degree 27

04 UIFSA / degree 27

05 NRF / degree 22

06 AFF / degree 18

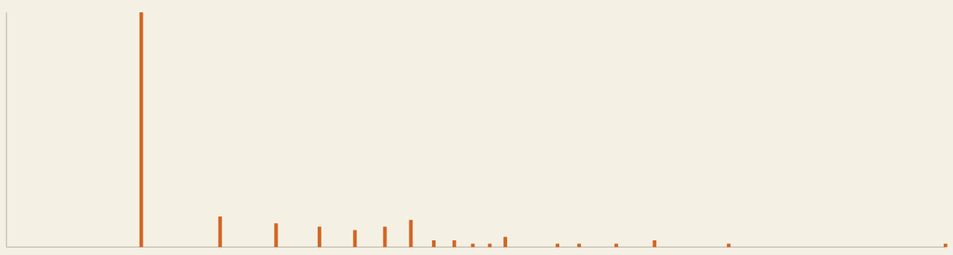
07 Junbish-i Milli-yi Islami / degree 16

08 Hizb-i Islami-yi Afghanistan - Khalis faction / degree 12

Reported deaths (best): 286,288. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

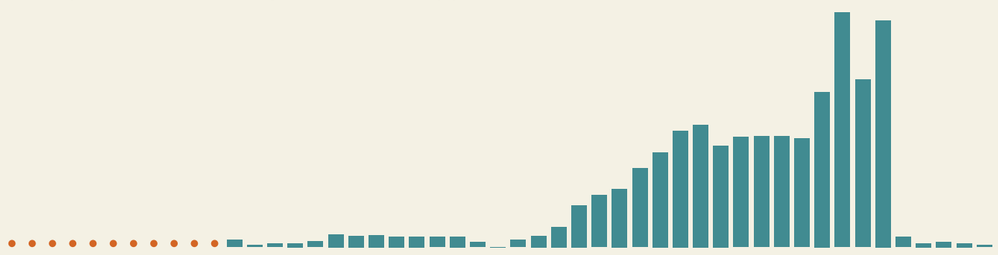
Nodes: 0-69; horizontal log(1+k)



Degree: 0 124

02 / RECORDED HISTORY

Events/year, max 4,335. Orange dots: annual-only years.



1978 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 126 coded actors and geographic theatres in one relational field. Government of Afghanistan reaches 124 distinct neighbours (99.2% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 2 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Afghanistan (0.899; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1978-2026; 48 annual records complement 38,024 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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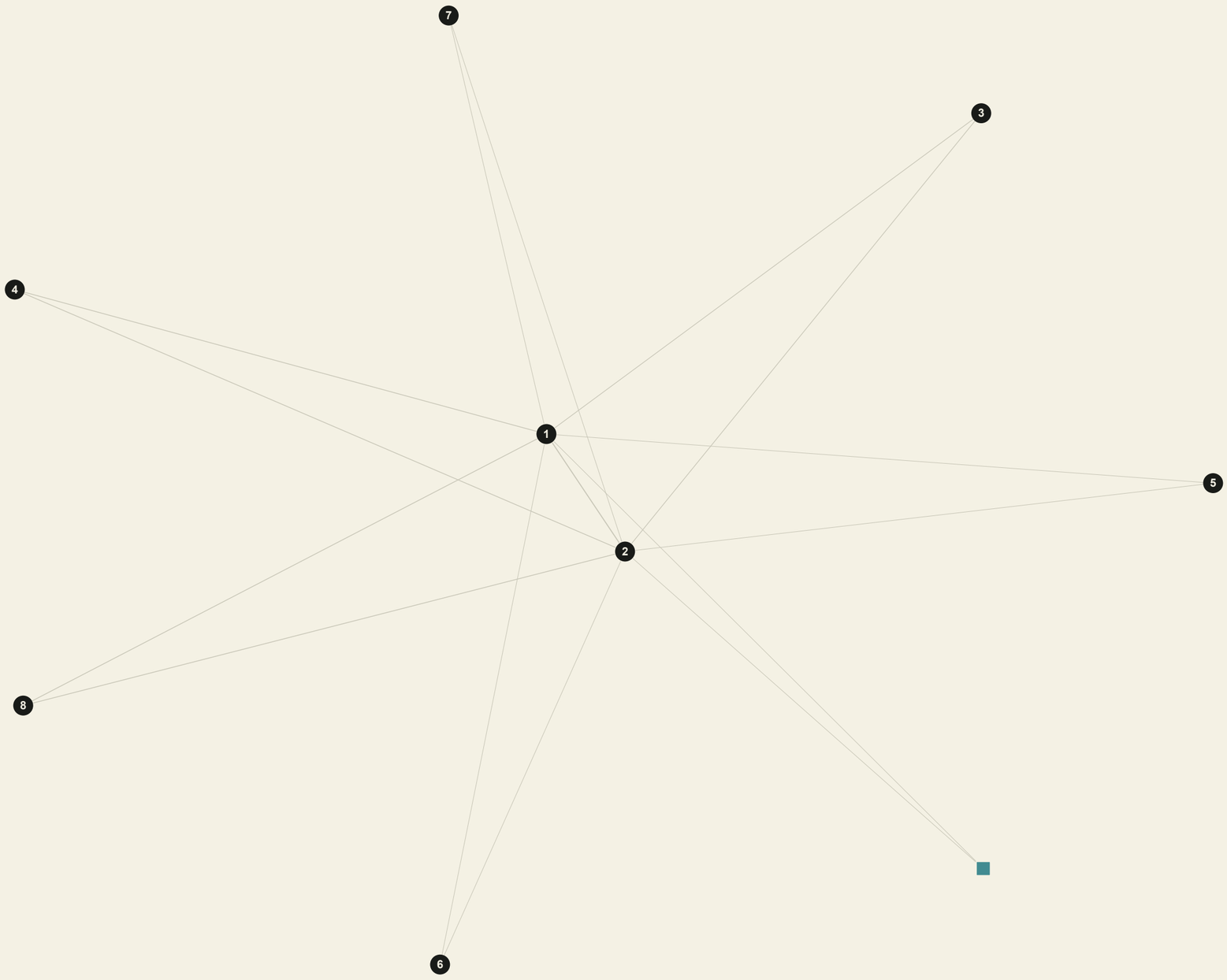
CODE + DATA / GITHUB
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MORTALITY RANK / 06 OF 10

Eritrea - Ethiopia

1998-2016 / UCDP 409 / violence type 1

9 NODES 15 LINKS 34 EVENTS



READING THE FIELD

- Government actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Eritrea / degree 8

02 Government of Ethiopia / degree 8

03 Eritrea / Debub region / degree 2

04 Eritrea / Gash-Barka region / degree 2

05 Eritrea / Maekel region / degree 2

06 Eritrea / Northern Red Sea region / degree 2

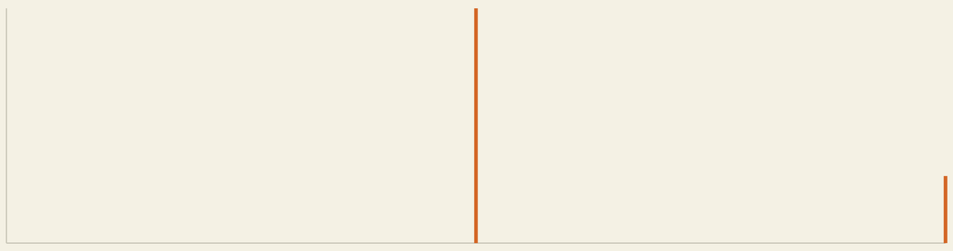
07 Eritrea / unspecified subdivision / degree 2

08 Ethiopia / Tigray state / degree 2

Reported deaths (best): 98,217. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

Nodes: 0-7; horizontal log(1+k)



Degree: 0 8

02 / RECORDED HISTORY

Events/year, max 14. Orange dots: annual-only years.



1998 2016

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 9 coded actors and geographic theatres in one relational field. Government of Eritrea reaches 8 distinct neighbours (100.0% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 0 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Eritrea (0.375; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1998-2016; 4 annual records complement 34 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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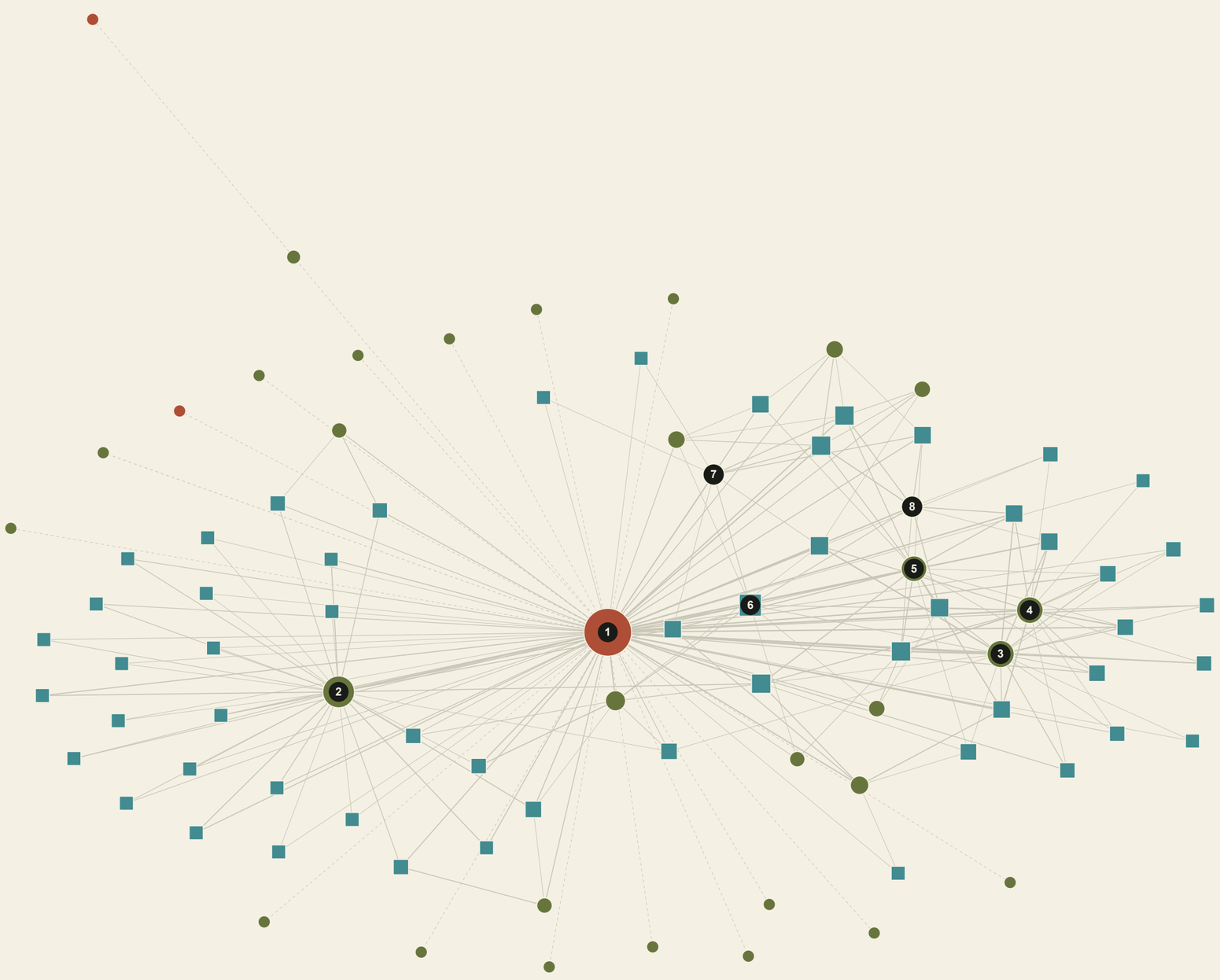
CODE + DATA / GITHUB
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MORTALITY RANK / 07 OF 10

Sudan: Government

1971-2026 / UCDP 309 / violence type 1

89 NODES 221 LINKS 3,017 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Sudan / degree 87

02 SPLM/A / degree 31

03 RSF / degree 20

04 SFA / degree 19

05 SRF / degree 17

06 Sudan / unspecified subdivision / degree 11

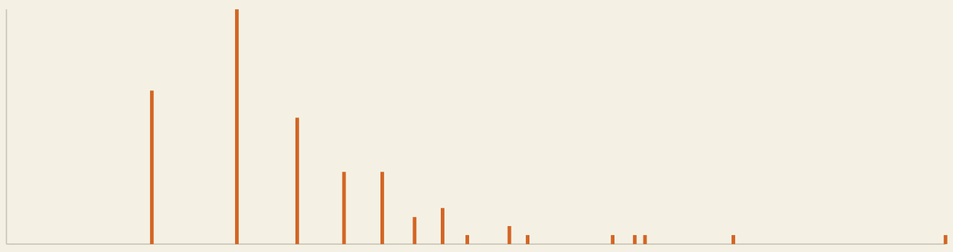
07 JEM / degree 10

08 SLM/A / degree 10

Reported deaths (best): 81,390. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

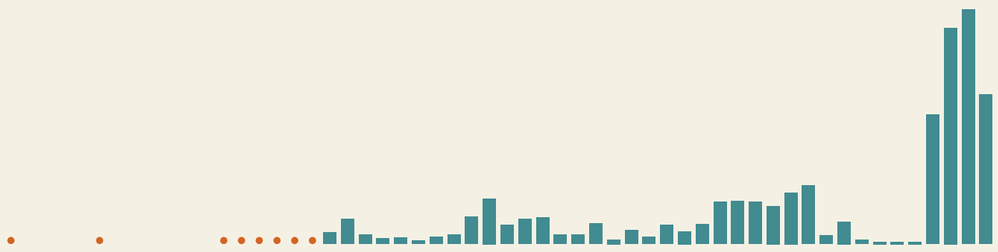
Nodes: 0-26; horizontal log(1+k)



Degree: 0 87

02 / RECORDED HISTORY

Events/year, max 510. Orange dots: annual-only years.



1971 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 89 coded actors and geographic theatres in one relational field. Government of Sudan reaches 87 distinct neighbours (98.9% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 2 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Sudan (0.848; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1971-2026; 44 annual records complement 3,017 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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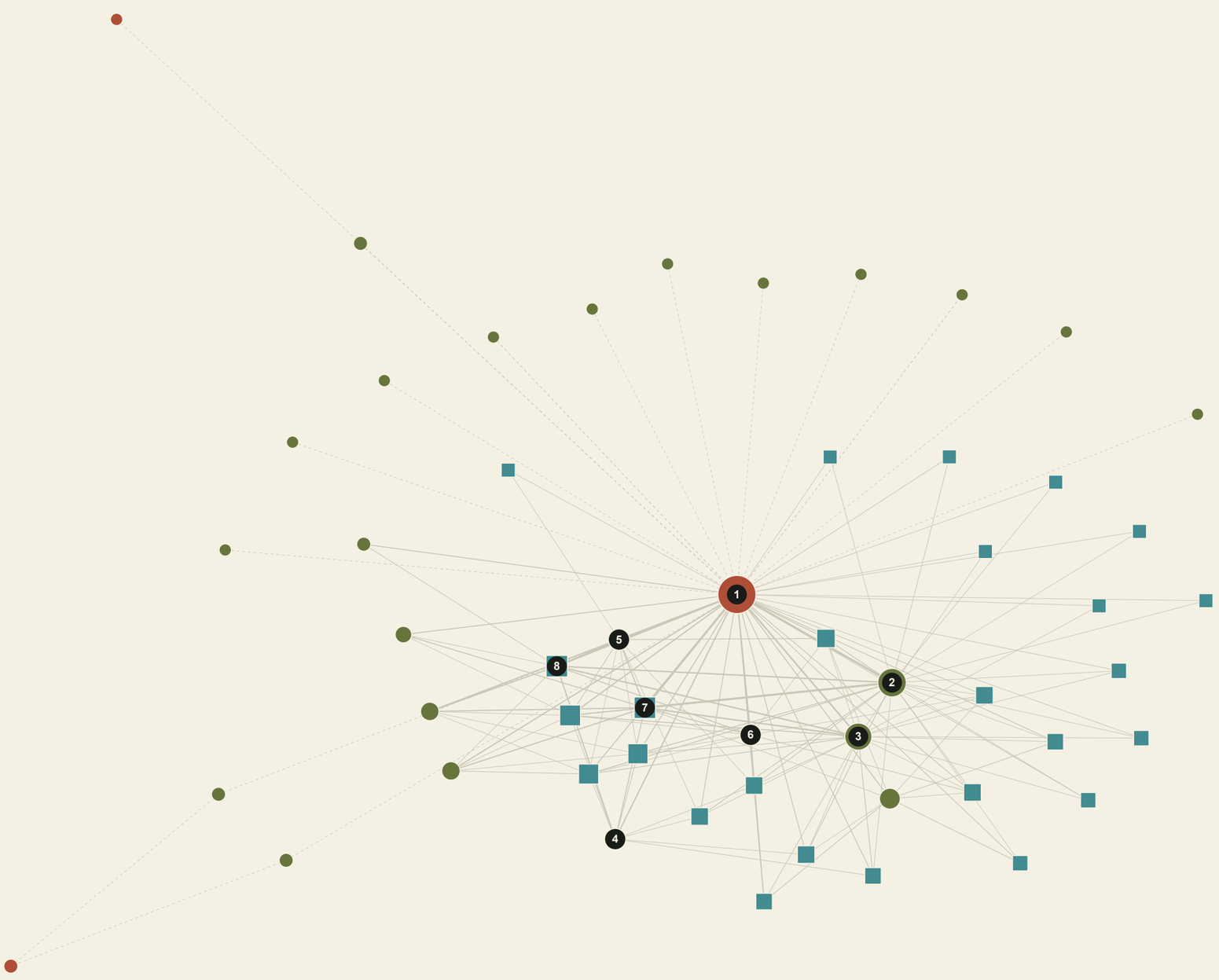
CODE + DATA / GITHUB
github.com/SJAH9/
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MORTALITY RANK / 08 OF 10

Israel: Palestine

1949-2026 / UCDP 234 / violence type 1

53 NODES 143 LINKS 11,298 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Israel / degree 50

02 Hamas / degree 23

03 PIJ / degree 20

04 AMB / degree 10

05 Fatah / degree 10

06 PFLP / degree 10

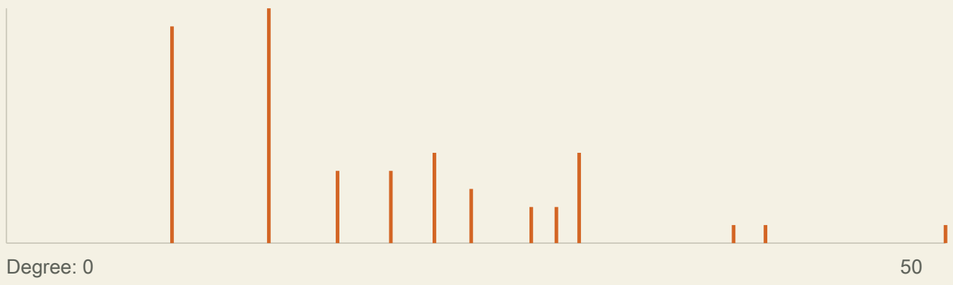
07 Israel / Gaza Strip / degree 10

08 Israel / West Bank / degree 10

Reported deaths (best): 71,855. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

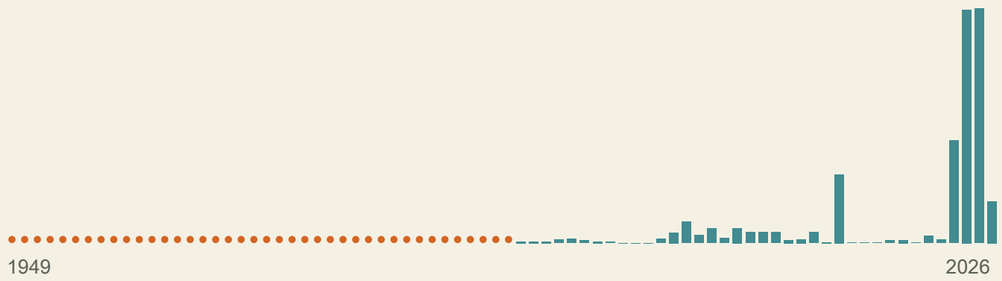
Nodes: 0-13; horizontal log(1+k)



Degree: 0 50

02 / RECORDED HISTORY

Events/year, max 3,125. Orange dots: annual-only years.



1949 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 53 coded actors and geographic theatres in one relational field. Government of Israel reaches 50 distinct neighbours (96.2% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 2 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Israel (0.772; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1949-2026; 69 annual records complement 11,298 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

The War Maps Project
PUBLIC EVIDENCE / CONNECTED

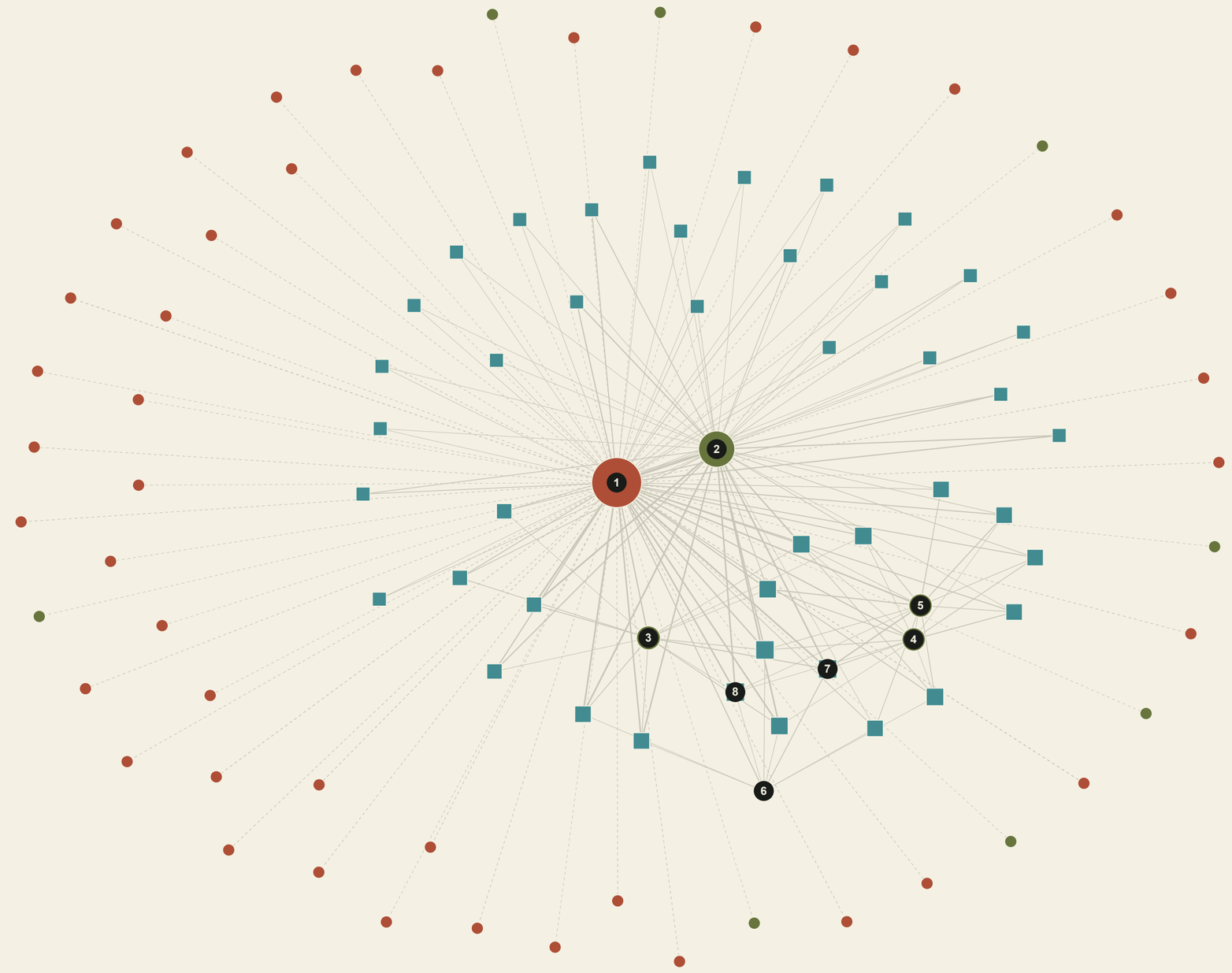
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war-maps-project/

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Iraq: Government

1958-2026 / UCDP 259 / violence type 1

98 NODES 185 LINKS 6,380 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Iraq / degree 97

02 IS / degree 44

03 Ansar al-Islam / degree 14

04 SCIRI / degree 13

05 al-Mahdi Army / degree 13

06 RJF / degree 9

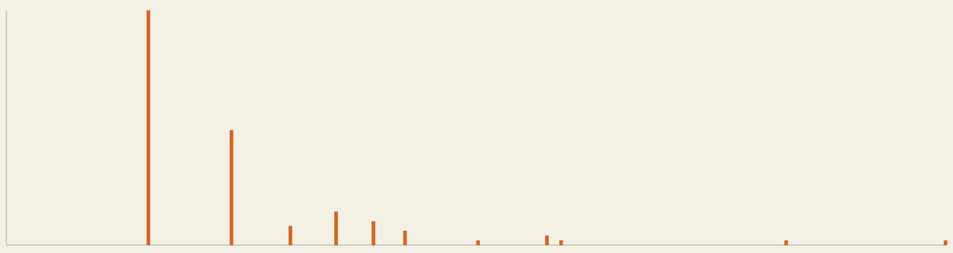
07 Iraq / Baghdād province / degree 6

08 Iraq / Diyālá province / degree 6

Reported deaths (best): 69,489. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

Nodes: 0-49; horizontal log(1+k)



Degree: 0 97

02 / RECORDED HISTORY

Events/year, max 738. Orange dots: annual-only years.



1958 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 98 coded actors and geographic theatres in one relational field. Government of Iraq reaches 97 distinct neighbours (100.0% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 1 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Iraq (0.876; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1958-2026; 35 annual records complement 6,380 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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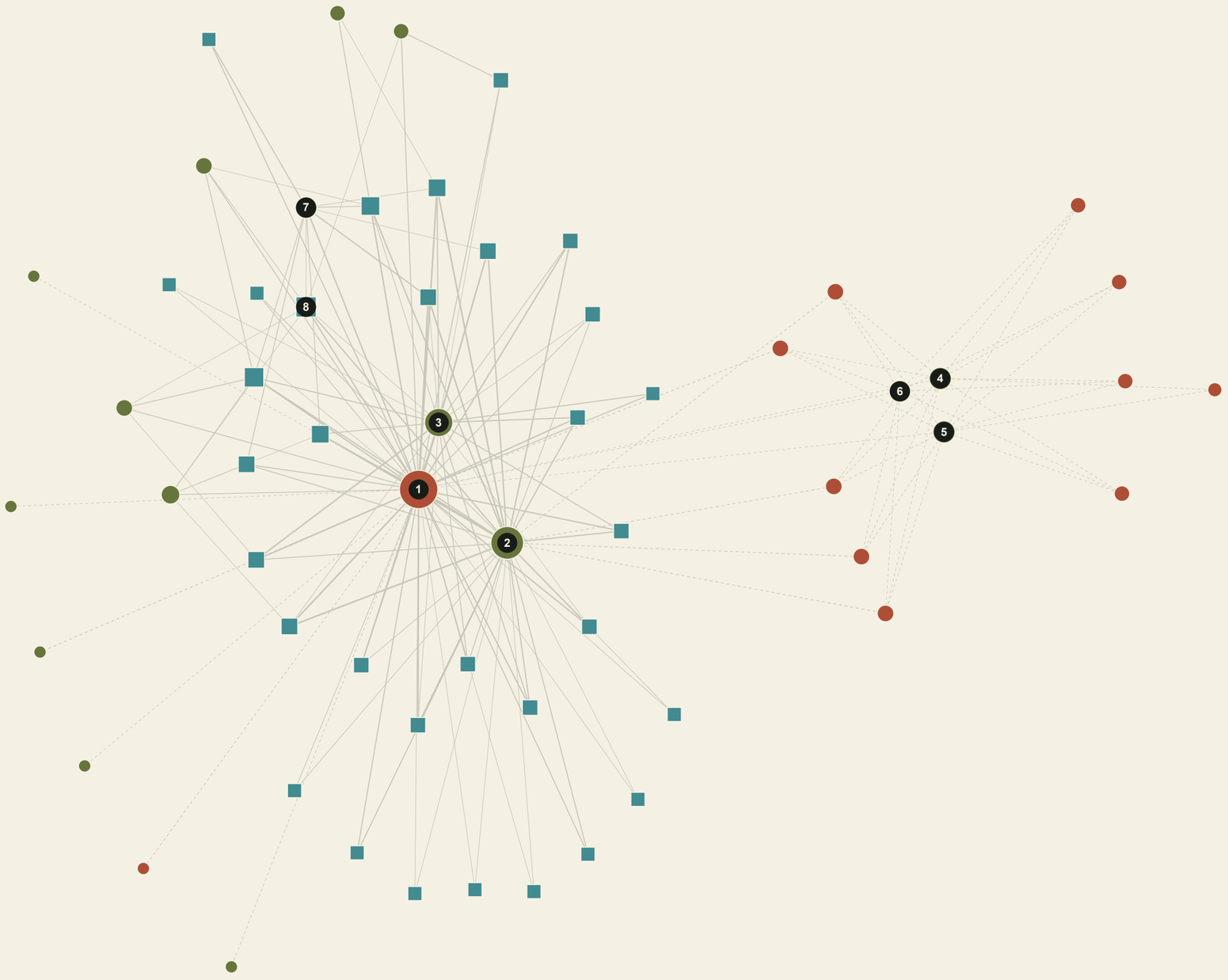
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MORTALITY RANK / 10 OF 10

Yemen (North Yemen): Government

1948-2026 / UCDP 230 / violence type 1

60 NODES 156 LINKS 5,359 EVENTS



READING THE FIELD

- Government actor
- Other / group-coded actor
- Geographic theatre

Node area grows with degree. Link width grows logarithmically with record count. Solid: event incidence or coded sides. Dashed: annual-only relations.

DEGREE HUBS / KEY

01 Government of Yemen (North Yemen) / degree 50

02 Forces of the Presidential Leadership Council / degree 33

03 AQAP / degree 22

04 AQAP, Forces of the Presidential Leadership Council / degree 11

05 Ansarallah, AQAP, Forces of the Presidential Leadership Council / degree 11

06 AQAP, Forces of the Presidential Leadership Council, GPC / degree 10

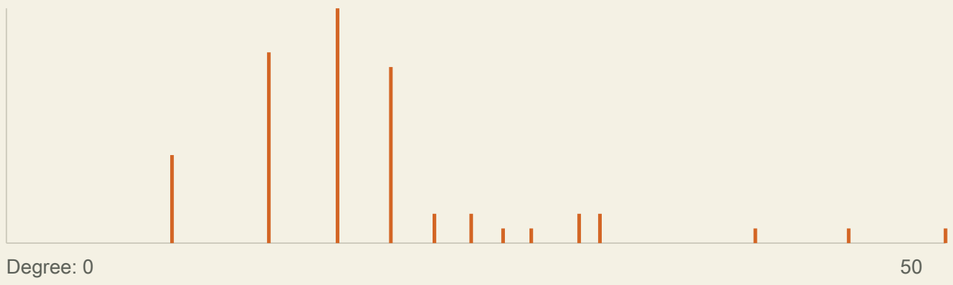
07 Ansarallah / degree 10

08 Yemen (North Yemen) / Ṣan‘ā’ governorate / degree 8

Reported deaths (best): 66,555. Unknown estimates: 0 events. Ranked by summed best fatality estimates across all available event years, including latest candidate revisions. Annual totals are not added again. No completeness threshold. Candidate observations are provisional and distinct IDs can contain overlapping reports; this sum is not a verified unique-person death toll.

01 / DEGREE DISTRIBUTION

Nodes: 0-16; horizontal log(1+k)



Degree: 0 50

02 / RECORDED HISTORY

Events/year, max 731. Orange dots: annual-only years.



1948 2026

03 / WHAT THE NETWORK MAKES VISIBLE

The network places 60 coded actors and geographic theatres in one relational field. Government of Yemen (North Yemen) reaches 50 distinct neighbours (84.7% of the other nodes). A chronological ledger repeats these names; the graph makes their shared neighbourhoods visible. There are 1 connected component(s) and 1 articulation node(s): removing an articulation and its edges disconnects part of this recorded network, not necessarily the real conflict. The highest unweighted betweenness belongs to Government of Yemen (North Yemen) (0.675; exact). This measures shortest-path brokerage in the encoded actor-theatre relationships, not command, responsibility, transport routes or military leverage. The record spans 1948-2026; 32 annual records complement 5,359 event observations. Repeated reporting, theatre aggregation and source coverage shape the hubs. No causal direction, power law or preferential attachment has been established.

Sources: ucdp-candidate-ged-2026-06, ucdp-candidate-ged-2026-07, ucdp-candidate-ged-2026-08, ucdp-ged-26.1, ucdp-prio-acd-26.1. Reviewed GED: 1989-2025; annual state-based coding: 1946-2025; candidate events: Jan-Aug 2026. Geographic theatres aggregate by country + recorded first-level subdivision; no subdivision is invented. All recorded years retained, not a claim of complete lifetime coverage. Method: Barabasi, Network Science, chapters 2 and 4 (networksciencebook.com). Exact nodes and edges: companion conflict-network-register.json. Source snapshots: War Ephemeris recovery attachment.

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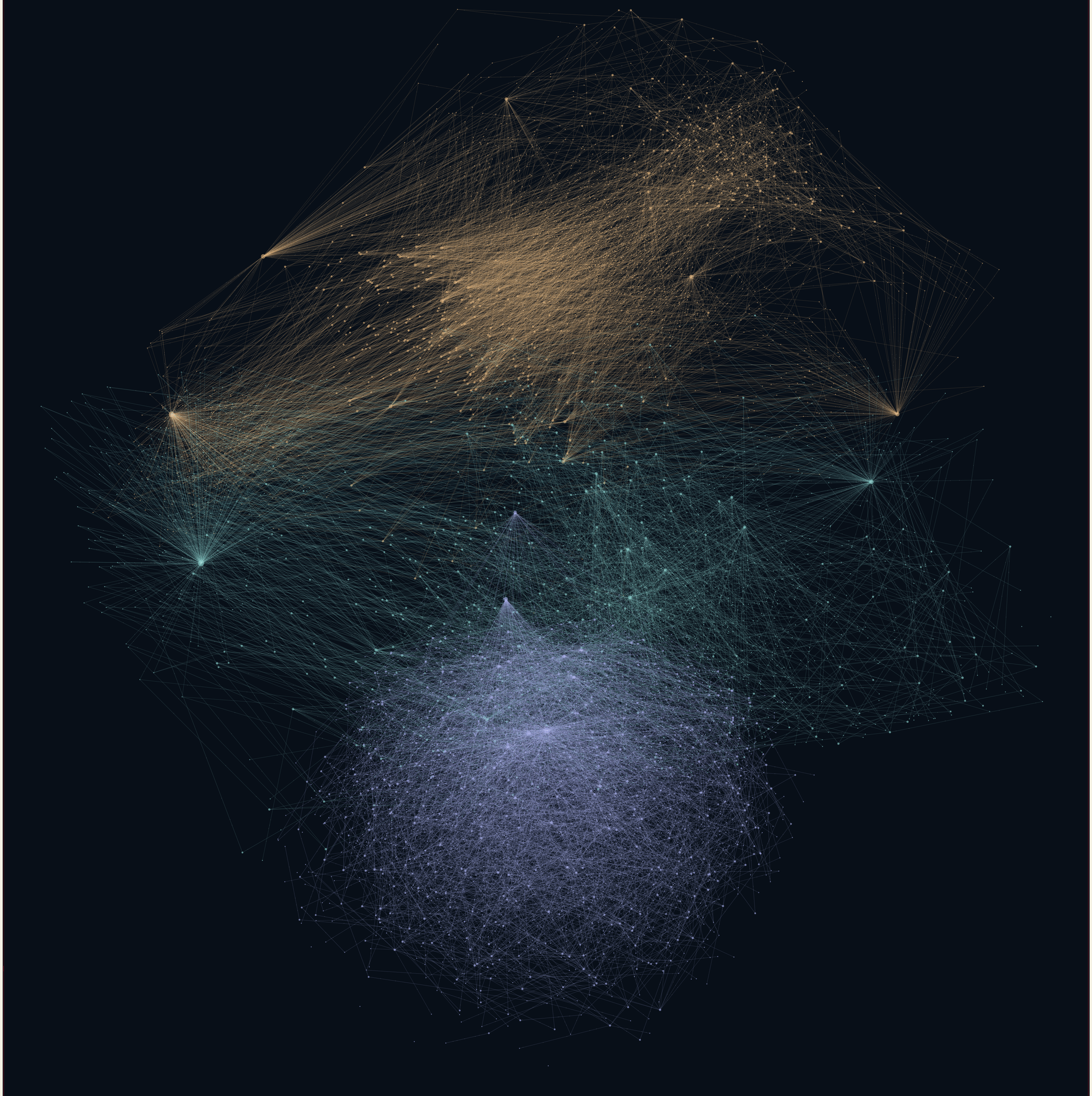
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AFTERIMAGES

No mark contains the life it touches.

57,840 pure-white squares, one for each death in the UCDP event records. Each death appears once across the three views. The memorial follows the original network textures. Counts sum the UCDP best field.

Visual exploration & saved viewpoints: Sid J. A. Hubbard. AI-assisted composition & rendering: OpenAI Codex. Source data: UCDP GED 26.1 / loaded candidate records through August 2026; record-level attribution retained in GraphML.

BORDER / 50,355 Russian-side deaths in red / 5,345 Ukrainian-side deaths in black / one pixel per death

CURATED DATA ART / LATTICE (14) + LATTICE (7) + THIRD-PARTY (3)

18 x 24 IN / VECTOR EDITION

The War Maps Project

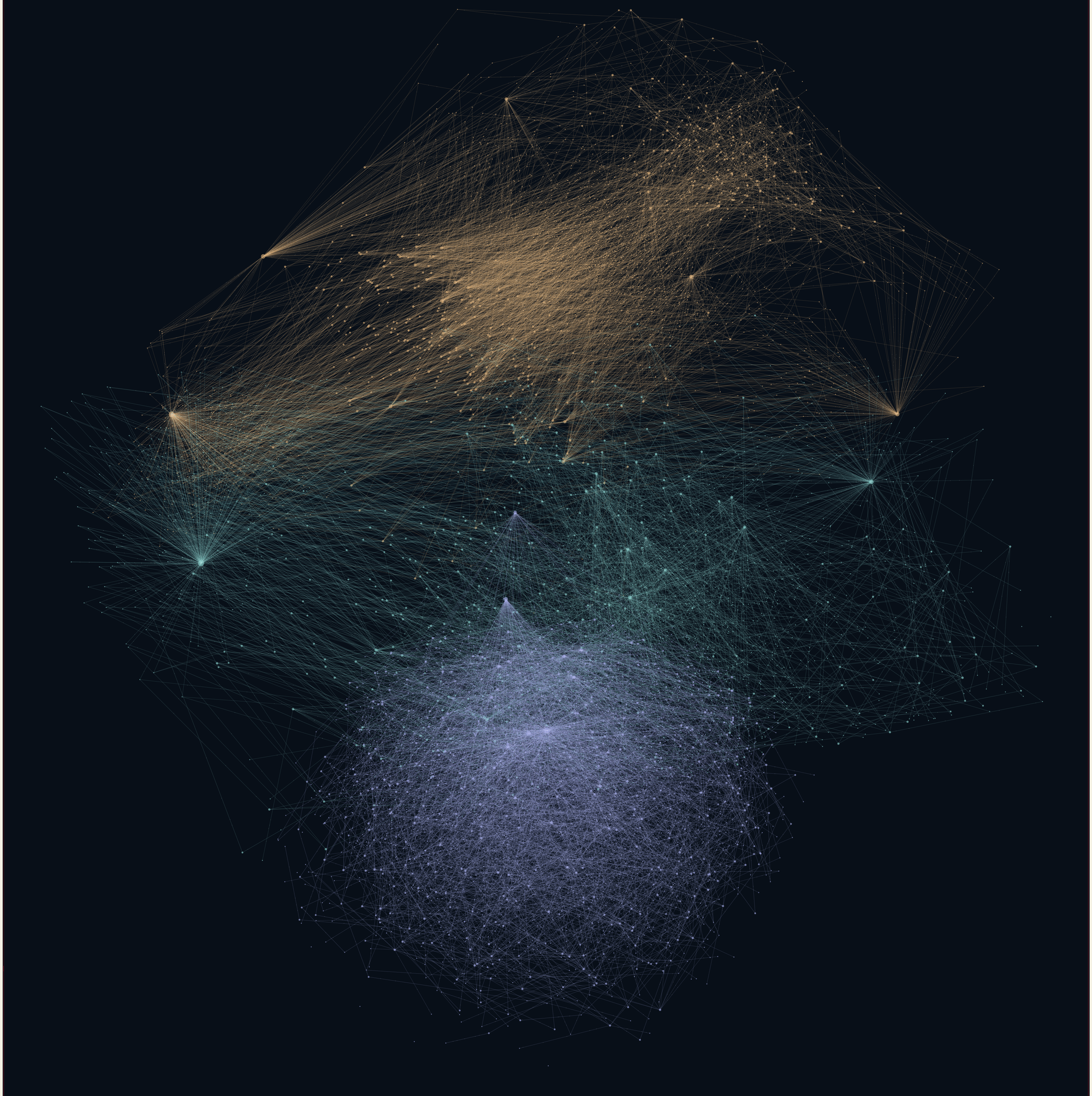
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