BATTLESCOPE / INTERACTIVE 3D

Walk Chickamauga

GEORGIA / SEPTEMBER 19-20, 1863

A free guide to the Windows historical scene player

Start exploring

Extract the complete ZIP, then run Chickamauga3D.exe. Keep its data folders beside it. Use a Windows 64-bit PC with a mouse and keyboard. Choose a scene, press Play and explore with the camera.

You control the viewpoint and timeline. The formations follow authored historical scenes; this player does not provide combat orders or change the battle's outcome.

Camera and playback

W A S D / middle drag	Pan; hold Shift for faster keyboard movement.
Right drag / wheel	Orbit around the focus / zoom in or out.
Click / double-click	Inspect a formation / attach the camera and follow.
F / 3 / Focus once	Toggle follow / follow near ground / frame selected unit.
1 / Home / T	Frame scene / whole battlefield / Snodgrass Hill.
Space / left-right arrows	Play or pause / previous or next scene.
Timeline / Speed button	Seek / cycle 0.25x, 0.5x, 1x, 2x and 4x speed.
N / L / K / H / C	Story / unit tags / landmarks / interface / gentle orbit.
F1 / Escape / Ctrl + Q	Help / pause and restore interface / quit.

Help pauses playback and camera input. Unit tags and landmark names switch independently; hiding names still allows formation selection. Use the visible Quit button or Ctrl + Q to exit.

Ten battle scenes

TWO DAYS / SOURCE-BASED HISTORICAL OVERVIEW

Overlapping action windows are compressed into separate scenes

1. Jay's Mill contact

Sep 19, about 07:30-10:30

Croxton meets dismounted cavalry near Jay's Mill. Van Derveer and Connell support him; Wilson, Ector and Baird arrive in succession.

2. Liddell strikes Baird; Johnson intervenes

Sep 19, late morning-early afternoon

Govan and Walthall strike Baird's flank. Johnson takes Liddell in flank, while Cheatham joins the continuing fight from the south.

3. Stewart at Poe and Brotherton

Sep 19, about 13:30-17:30

Stewart drives toward Poe and Brotherton, briefly near Dyer. Palmer, Van Cleve and Reynolds help restore the Union line.

4. Viniard fields

Sep 19, about 14:00-17:30

Davis, parts of Sheridan and Wood fight around Viniard. Wilder fights dismounted; Harker threatens Bushrod Johnson's rear.

5. Winfrey night attack

Sep 19, about 18:00-after dark

Cleburne attacks west from Jay's Mill after dusk. Baird and Johnson resist near Winfrey, then withdraw to Kelly after dark.

6. Kelly Field assaults

Sep 20, about 09:30-11:00

Helm assaults the works. Adams and Stovall turn the Union left near McDonald; arriving Union troops check the movement.

7. Brotherton gap and breakthrough

Sep 20, about 11:00-noon

Wood's departure opens the Brotherton gap. Longstreet's column penetrates the center, and Hindman drives the Union right west.

8. Harker delays; Thomas forms the ridge line

Sep 20, about 12:00-14:30

Harker delays the advance at Dyer. Brannan reforms at Snodgrass with fragments; Whitaker and Mitchell extend the western ridge.

9. Horseshoe Ridge repeated assaults

Sep 20, about 14:30-18:00

Longstreet's troops repeatedly attack the ridge. Preston joins late, while the Kelly position faces renewed Confederate pressure.

10. Withdrawal toward McFarland Gap

Sep 20, about 17:30-19:00

Kelly troops leave first. Turchin clears threatened woods; the ridge defenders follow toward McFarland Gap. Isolated rear regiments are captured.

At normal speed the ten scenes contain 420 seconds of authored playback. Their clocks compress historical action and should not be read as continuous elapsed battle time.

Read the formations

DISPLAY COUNTS / REPORTED RETURNS / REGROUPED PORTIONS

Know what the figures and sounds represent

Strengths have dates and limits

The scene roster contains 64 named infantry brigades across the battle, plus a representative Davidson dismounted detachment and selected batteries. Some reported strengths survive; other counts use disclosed allocations from the Commission's regimental roster. Ranges describe reconstruction limits, not statistical confidence intervals.

Fulton's reported infantry strength is 869 on September 19 and 556 on September 20. Gregg's division table gives 1,352 and 848; Sugg's separate September 19 report gives 1,387. McNair has a September 19 return but no corresponding second-day return. Differing dated counts do not establish minute-by-minute losses.

After the breakthrough, Snodgrass units are estimated regrouped portions of Brannan, Wood, Negley and Van Cleve. Labels identify those portions and documented regimental fragments. They do not depict all earlier brigades as intact. This presentation does not reconstruct a casualty schedule.

Artillery source counts describe personnel. Each cannon model represents about 60 display personnel; model counts are illustrative, not a verified gun inventory. Battery membership, branch allocations and exceptions are disclosed in the package provenance.

Hear action from its location

The camera is your listening position. Movement and retreat sounds carry less than 250 metres, muskets less than 1,600 metres and cannon less than 3,200 metres. Levels fall with distance; sources are silent at or beyond those limits. Move close to an active formation to hear it.

Combat cues follow authored action windows for the units shown. Marching can carry footsteps without firing. Pause, Help, seeking and scene changes clear active sounds. Open F1 for the Sound switch and Volume slider; zero volume stops audio.

Five existing BattleScope sound assets, originally generated with ElevenLabs, are reused in mono: march_loop, retreat_loop, hooves_loop, musket_volley and cannon_fire. Hoof sounds are loaded by the shared player; the dismounted formations shown here use infantry movement. The effects illustrate the scene and are not historical field recordings.

Terrain and uncertainty

MEASURED MODERN GROUND / BOUNDED PERIOD ESTIMATES

The ground and the historical placement have different evidence

A six-kilometre square

The base is public-domain USGS 3DEP bare-earth elevation, project GA_Statewide_2018_B18_DRRA, publication 2022-05-31. 4 one-metre tiles supply the crop. The display grid is 2,049 x 2,049, about 2.93 metres between samples. One world unit is one metre, without vertical exaggeration.

Horizontal reference: NAD83 / UTM zone 16N (EPSG:26916). Heights: NAVD88 metres. The 6 x 6 km crop spans eastings 656,000-662,000 and northings 3,862,800-3,868,800. This source is modern relief, not a surveyed September 1863 surface.

What the correction receipt records

Estimated masks cover later quarry excavation; later road/rail grading and developed pads; later trench disturbance; other named bounded terrain footprints. Exact footprints, source citations and methods remain in the package provenance.

The receipt records 164,261 changed display samples. Surfaces are inferred from supported surrounding ground, not a surveyed 1863 elevation model. Samples outside the approved masks are unchanged. Full limitations and preservation checks accompany the receipt.

Map fit is not troop-position accuracy

NPS's 2004 landscape map was registered using four approximate modern controls. The largest fitted residual is 69.8 metres; the independent Glenn Field check is 156.2 metres. Farm and field centers retain 200-300 metres of interpretive uncertainty. Those measurements describe this map fit, not exact historical formation positions.

Unit offsets and routes are schematic interpretations between these sectors. Fields, houses and the LaFayette Road are representative scenery. Jay's Mill and the bridge locations remain approximate named areas. McFarland Gap lies mostly west of the crop; Rossville, Chattanooga and the main September 18 crossing actions are outside it.

A later quarry south of Viniard and the believed battle-era Weathers quarry west of the field have different dates. Period terrain evidence must preserve that distinction. The package terrain receipt identifies actual corrections, validation and remaining limitations.

Sources and credits

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Follow the evidence and explore other published games

Historical sources

Chickamauga Park Commission, 1893

Organization and position accounts, printed pp. 4-34. Later reconstruction with brigade membership and action chronology.

https://dlg.usg.edu/record/dlg_zlgb_gb5001

Confederate official reports, 1864

Reported strengths and unit narratives, selected printed pp. 54, 77, 105, 123, 153, 189, 195, 215 and 223. Categories and conflicting returns remain explicit.

https://archive.org/download/officialreportof00conf/officialreportof00conf.pdf

NPS Historical Handbook 25

Battle overview and retreat. Its second-day heading says September 21; the battle's second day was September 20.

https://npshistory.com/handbooks/historical/25/hh25g3.htm

NPS Cultural Landscape Report, 2004

Map 3-2, site interpretation and dated landscape changes. This map is not a contemporary battlefield survey.

https://www.nps.gov/chch/getinvolved/upload/clr.pdf

USGS 3DEP dataset

Public-domain modern bare-earth relief. Source metadata, tile hashes and the correction receipt accompany the package.

https://www.sciencebase.gov/catalog/item/629ae861d34ec53d276f4cb6

Sound assets and publisher

Sound assets: BattleScope / owner's existing ElevenLabs library. Live originals are under https://battlescope.click/app/audio/sfx/ with the five cue names listed on page 3 and the .mp3 extension. Mono adaptations, hashes and attribution are retained in the package.

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