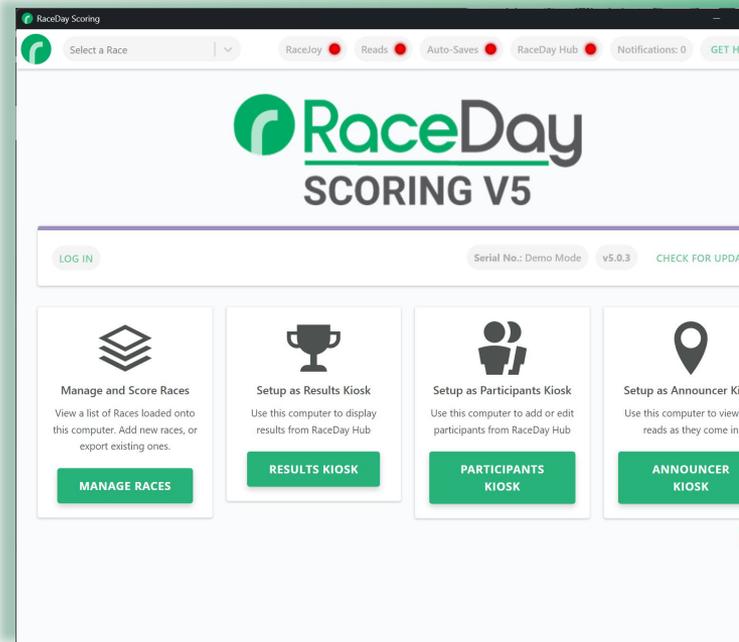


RaceDay Scoring Real-Time Version 5

March 4, 2025





Today's Agenda

RaceDay Scoring v5

- **Performance Improvements:** Rewriting the Scoring Engine with Rust
- **New features** for v5
- **What's coming soon.**



The Challenge: Limitations of JavaScript & Browser Databases

RaceDay Scoring was written in JavaScript from the very beginning, with a browser-based database.

- Single-threaded processing: UI freezes during heavy tasks.
- Performance bottlenecks with large datasets.
- Data storage was prone to corruption.
- JavaScript's single-threaded nature can lead to bottlenecks.





The Solution: Rust & SQLite

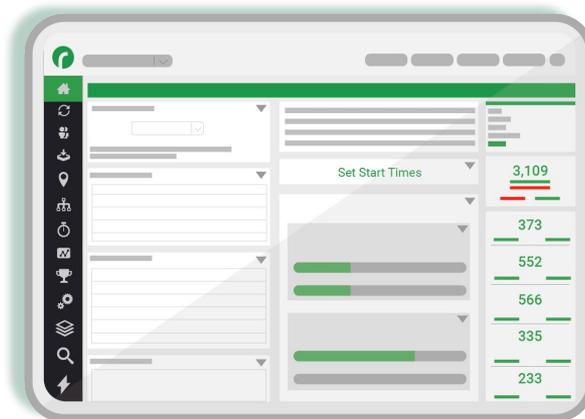
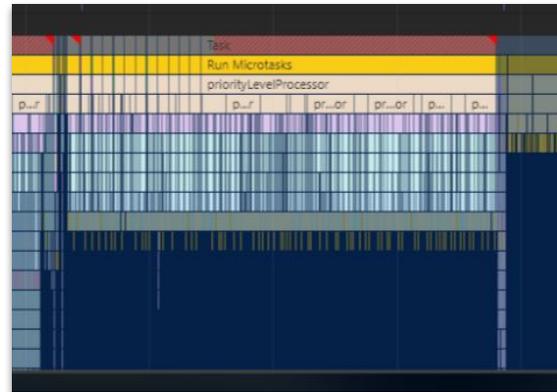
We began replacing our entire scoring worker code in August, 2024. 515 files changed, with 88k + new lines of code later...

- Complete Rewrite for the read processing, filtering and creation of scored reads.
- Compiled language for blazing-fast performance.
- Native concurrency (threads) for parallel processing.
- Memory Safety: Ensures stability and reliability
- Robust and reliable architecture.



Impact on RaceDay Scoring v5

- **Faster Scoring:** Quicker results, especially for large events.
- **Responsive UI:** No more frustrating freezes or delays.
- **Enhanced Reliability:** Stable and accurate data processing.
- **Improved Scalability:** Handle even the largest races with ease.
- **Better user experience**



Key Features & Improvements

RaceDay Scoring v5

- Realtime Data Checks
 - Default Data Checks
 - Realtime Dashboard Widget
 - Redesign: Easier to use and create than ever.
- Raw Read View Column Customization
- Participant Filters for Age Groups



Realtime Data Checks

- **Quickly** find potential problems
- **Realtime updates:** Data check counts update as the race unfolds.
- **Easy to use:** Find and use data checks effortlessly
- **Simplified interface:** Hidden filters for easy viewing.
- **Jump right in:** Ready-to-use Data Checks
- **Skip the setup:** Start with a pre-made data check and customize it.

The screenshot shows a web application interface for a marathon race. The top navigation bar includes a search for 'Select a Race', status indicators for 'RaceJoy', 'Reads', 'Auto-Saves', 'RaceDay Hub', 'Data Issues: 617', 'Notifications: 0', and a 'GET HELP' button. The main header displays 'MERCY HEALTH GLASS CITY MARATHON' and 'LOG IN'. The dashboard is divided into several sections:

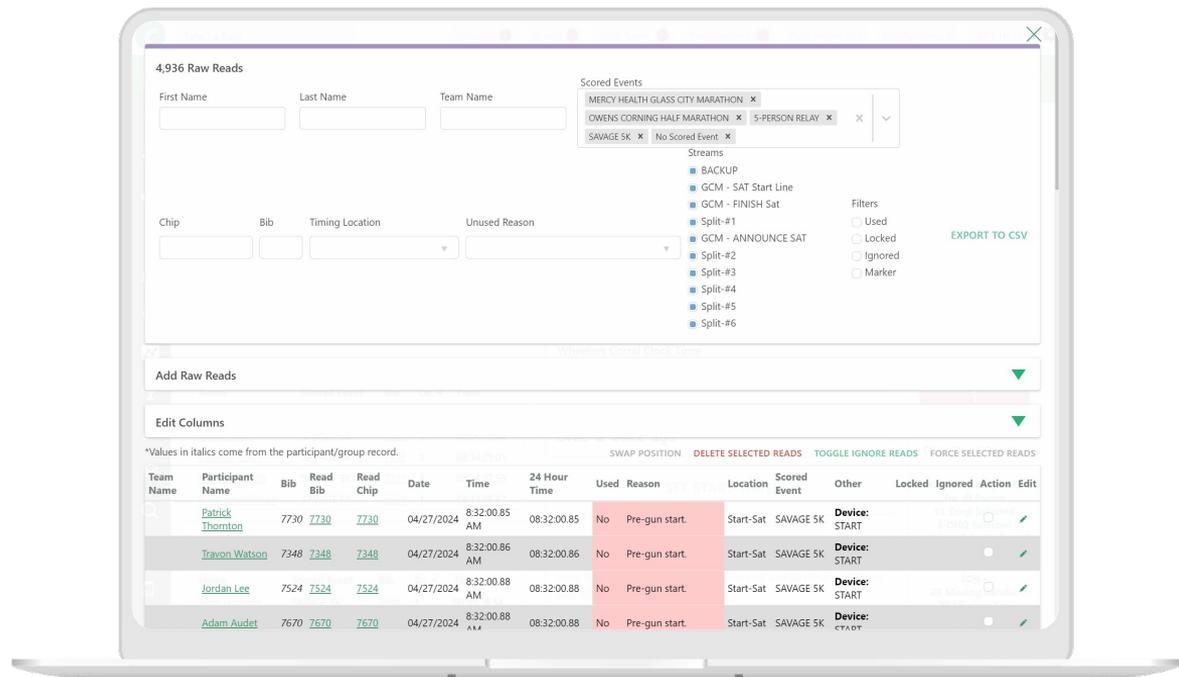
- Top 5 Gender Leaderboards:** A dropdown menu for 'Scored Event' is set to 'MERCY HEALTH G...'. Below it are tabs for 'TOP 5 MALES', 'TOP 5 FEMALES', and 'TOP 5 NON-BINARY'. A message states: 'No Male Results Found. If results are loaded, check that you have a Gender Place column in a Report for this Scored Event.'
- Recent Reads at Finish-Sun:** A table with columns: Name, Scored Event, Bib, Oc. #, Time.
- Recent Reads at Start-Sat:** A table with columns: Name, Scored Event, Bib, Oc. #, Time. Data rows include:

Name	Scored Event	Bib	Oc. #	Time
Nicholas Bratt	SAVAGE 5K	7222	1	08:34:33.09
Abigail Bratt	SAVAGE 5K	7227	1	08:34:33.05
Danielle Czech	SAVAGE 5K	7332	1	08:34:29.01
Nicholas Czech	SAVAGE 5K	7331	1	08:34:27.59
Brian Weddelman	SAVAGE 5K	7952	1	08:34:26.67
- Recent Reads at Finish-Sat:** A table with columns: Name, Scored Event, Bib, Oc. #, Time. Data rows include:

Name	Scored Event	Bib	Oc. #	Time
Mary Gibbons	SAVAGE 5K	7480	1	09:39:28.54
Susan Gray	SAVAGE 5K	7483	1	09:39:27.64
- MERCY HEALTH GLASS CITY MARATHON Event / OWENS CORNING HALF MARATHON Event / 5-PERSON RELAY Event:** A section for 'Clock Time' showing 'Over a week ago'.
- SAVAGE 5K Event Clock Time:** Showing 'Over a week ago'.
- 1 Corral / 2 Corral / 3 Corral / 4 Corral Clock Time:** Showing 'Over a week ago'.
- Wheeler's Corral Clock Time:** Showing 'Over a week ago'.
- Elites Corral Clock Time:** Showing 'Over a week ago'.
- Race Info:** Race ID: 5, Date: 2024-04-27, Race Participants: 7,035, Timer Race ID: 43491, Show More.
- 4,936 RAW READS:** 2,981 IGNORED READS. Buttons for CLEAR and RECALC.
- Unknown Reads:** A red button with the number 1.
- Data Check Reports:** 49 Does Not Qualify for all Pacers, 51 Drop Selected, 6 DNQ Selected, 6 Disqualified Selected, 8 Looking for Guides, 28 Missing Gender, 28 Missing Age.
- Race Statistics | 4 In Progress:** Note: Stats only include mapped scored events, and participants & teams with bibs. Entire Race | 5533 Participants & Teams.

Customize the Raw Reads View

- **Choose the data you need:** See only the columns that are relevant to you.
- **Clear the clutter:** Hide unnecessary information for a cleaner view.
- **Customize for each race:** Set up your view to match each event.
- **Set it and forget it:** Save your global preferences as a default for future races.
- **Work faster:** Find the information you need more quickly.



RaceDay Scoring v5 gives you more control. See the data you want, how you want it.



What's coming next?

RaceDay Scoring v5

Aggregate Team Scoring Updates

- Custom Aggregate Team Scores
 - Highest points wins.
 - Upload a table, or define a formula like “1000 - X where X is the placement”.
- Aggregate Team Scoring Default Report Changes.
 - No longer will need two reports to push to RSU.
 - Default report will create both Age Groups and Team tab at RunSignup .

Realtime Dynamic Adjustments

- For example, you get a 30s deduction for each donut eaten.
- Based on Custom Question/Custom Field data.
- As soon as data is updated (from within RDS or from CheckIn/RSU), the adjustment factor is applied.

Data Check Updates

- More Default Data Checks
 - Missing Start Read
 - Missing Split Read
 - Backup time Selected
 - Wave Jumper
- Adding Data Check Tooltip to Toolbar
- Export/Print Data Checks

And much more...

What's coming next?

Custom Aggregate Team Scoring Rules

Score Teams By: Gender Place

Custom Points Table

Type: Generated CLEAR TABLE

Start: Subtract: Minimum:

Place	Points
1	10
2	9
3	8
4	7
5	6
6	5
7	4
8	3
9	2
10+	1

Score Teams By: Gender Place

Custom Points Table

Type: Static CLEAR TABLE

Select a Spreadsheet to Import Points

Select a Spreadsheet: Choose File No file chosen

Spreadsheet Settings

Place	Points	Actions
1	<input type="text" value="100"/>	X+
2	<input type="text" value="500"/>	X+
3	<input type="text" value="333"/>	X+
4	<input type="text" value="250"/>	X+
5	<input type="text" value="200"/>	X+
6	<input type="text" value="166"/>	X+
7	<input type="text" value="142"/>	X+
8	<input type="text" value="125"/>	X+
9	<input type="text" value="111"/>	X+
10	<input type="text" value="100"/>	X+
11	<input type="text" value="90"/>	X+
12	<input type="text" value="83"/>	X+
13	<input type="text" value="76"/>	X+
14	<input type="text" value="71"/>	X+
15	<input type="text" value="66"/>	X+
16	<input type="text" value="62"/>	X+
17	<input type="text" value="58"/>	X+

••• What's coming next?

Custom Aggregate Team Scoring Rules

5k Aquinas College Results

[Top](#)

Team Place: 2

Team Age Group Points: 1283

Team Type: Division 2 (499 and Under)

Tie Breaker-Next Age Group Place: 76

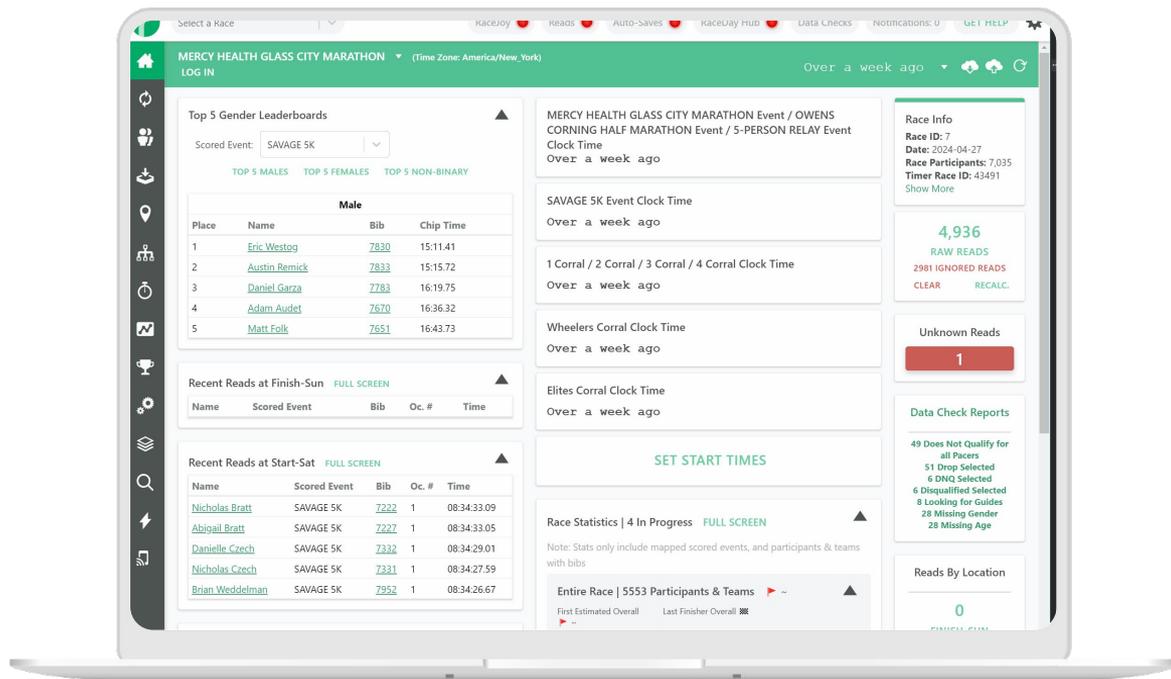
Team Total Chip Time: 1:56:54.79

Age Place	Points	Scored	Place	Bib	Name	Gender	Gender Place	Age	City	State	Clock Time	Chip Time	Pace
1: M 80-89	100	*	1	1931	Don Chaffee	M	1,203: M	80	Grand Rapids	MI	50:18.25	40:38.91	13:07
2: F 50-54	500	*	2	753	Beth Ciangi	F	59: F	54	Lowell	MI	24:54.09	22:41.32	7:19
3: M 55-59	333	*	3	1613	Randall MacGeorge	M	197: M	56	Grand Rapids	MI	24:32.75	22:18.66	7:12
4: F 65-69	250	*	4	1930	Linda Chaffee	F	459: F	68	Grand Rapids	MI	39:35.87	29:55.63	9:39
10: F 25-29	100	*	5	706	Carly Plank	F	52: F	28	Grand Rapids	MI	25:46.81	22:19.42	7:12
13: M 35-39	76		6	809	Larry Peters	M	104: M	36	Grand Rapids	MI	23:16.11	19:39.76	6:21
65: M 55-59	20		7	1571	Joseph Spencer	M	939: M	55	Grand Rapids	MI	46:02.77	31:52.36	10:17
77: F 19-24	20		8	1025	Kara Vanegmond	F	1,143: F	24	Middleville	MI	57:30.91	39:06.69	12:37
186: F 30-34	20		9	1024	Alexa Carey	F	1,142: F	31	Grand Rapids	MI	57:31.37	39:06.38	12:37

What's coming next?

Data Checks From the Toolbar

Check data anywhere: No need to go to the Dashboard to get to Data Checks.





RaceDay Scoring v5

Your Results, Realtime.

- **Speed you can trust:** Get results faster and more reliably.
- **Rock-solid stability:** Count on a reliable system, race after race.
- **Instant insights:** Catch issues immediately with Realtime Data Checks.
- **Easy to use, easy to manage:** Enjoy a smoother, more efficient workflow.
- **Your data, your way:** Customize your views and easily write your own Data Checks to see what matters.

Upgrade to RaceDay Scoring v5 today and experience the difference!

The logo features a green circular icon with a white stylized 'R' on the left. To its right, the word 'RaceDay' is written in a green, sans-serif font, with a thin green horizontal line underneath it. Below 'RaceDay', the word 'SCORING' is written in a bold, dark grey, all-caps sans-serif font.

RaceDay
SCORING

..

Thank You For Joining Us Today

Questions?





Presentations from Timer Summit

RaceDay Real Time update:

https://docs.google.com/presentation/d/1JbvE4MYHQJGfX8vYllsYWUefnoinFXw99L13nLT-9s/edit?usp=share_link

Advanced RaceDay Scoring:

https://docs.google.com/presentation/d/1pTPOFSI2_-yKGaHp91nq4XlPvRctw8tl8d7GwX5EPX0/edit?usp=share_link



Today's Agenda

Subtitle Goes Here

- Section Title for Topic Number One
- Section Title for Topic Number Two
- Section Title for Topic Number Three
- Section Title for Topic Number Four
- Section Title for Topic Number Five
- Section Title for Topic Number Six
- Section Title for Topic Number Seven



Headline Goes Here Roboto Normal 40pt **Roboto Black 40pt**

Subtitle Goes Here • Roboto Italic 15pt



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Subtitle Goes Here

- Section Title for Topic Number One
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- Section Title for Topic Number Three
- Section Title for Topic Number Four
- Section Title for Topic Number Five





Hear From Our Customers

“Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris nec arcu orci. Curabitur aliquet, felis id varius sodales, odio turpis dignissim eros, et ultricies purus erat non elit. Sed purus magna, efficitur euismod est condimentum, tincidunt eleifend odio. Phasellus sed dolor quis est mattis facilisis in non tortor. Pellentesque ex nibh, eleifend sed urna et, mattis interdum diam.”

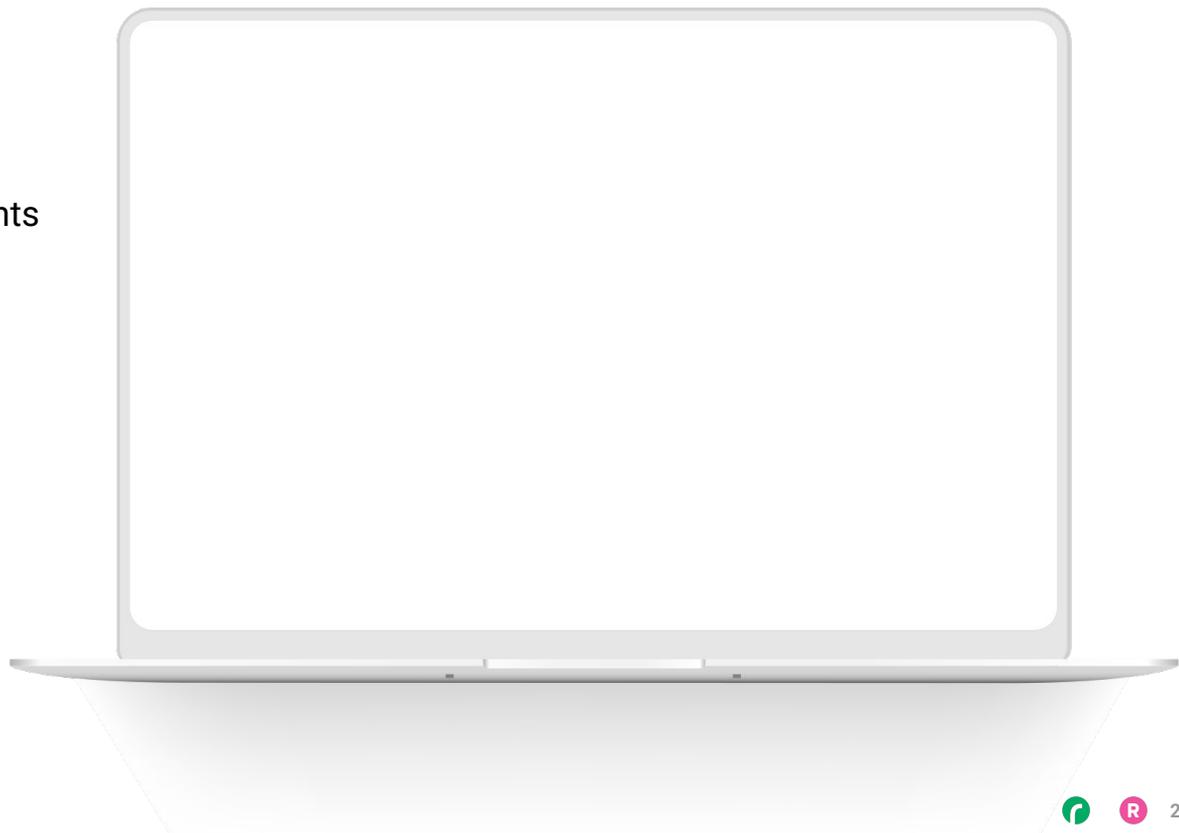
Jane Doe • Job Title Goes Here
Company Name Goes Here

Page Title Goes Here

Subtitle Goes Here

A couple of short sentences or bullet points about the displayed screenshot go here.

Limit the number of words for maximum retention.



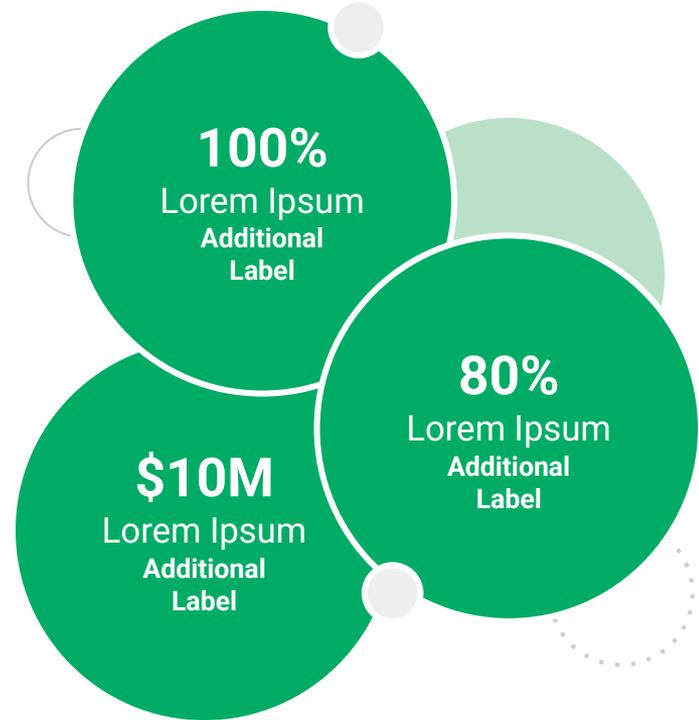
Page Title Goes Here

Subtitle Goes Here

Content Label

Topic Title Goes Here:

Month 00 • Lorem ipsum dolor sit amet



Page Title Goes Here

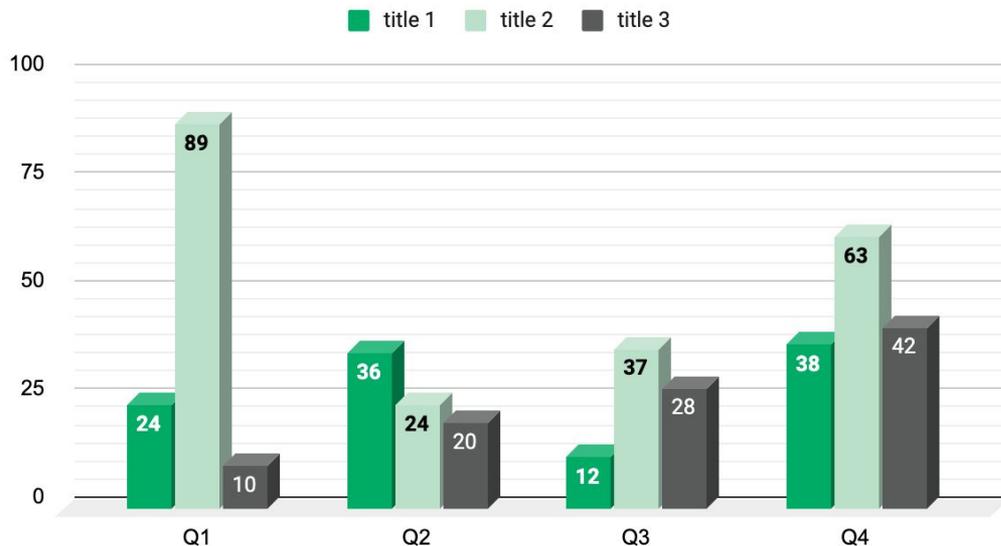
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Content Label

Topic Title Goes Here

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- Lorem ipsum dolor sit amet

Graph Title Goes Here



Page Title Goes Here

Subtitle Goes Here

This layout is for use with one column of text and no images or screenshots.

- This layout is best for content with short, bulleted list items
- Use as little text as possible
- Slides should be a visual aid to what you're saying



Thank You For Joining Us Today

For more information, visit us online at runsignup.com.



Graphic Elements For Use

*Use these graphics to create your own layouts
and add dynamic content to your pages*

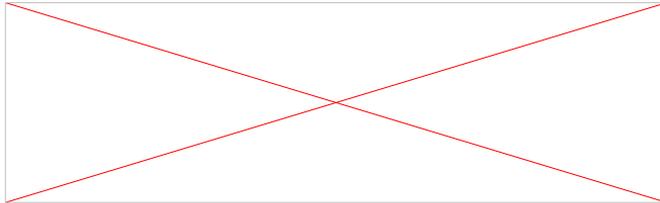
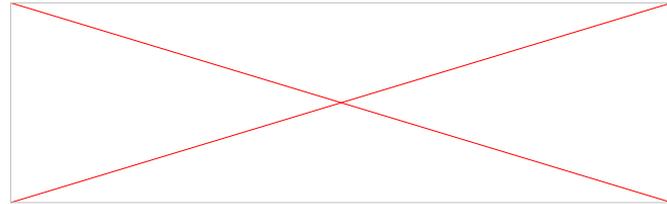
- New Logos
- Icons
- Stat Bubbles
- Basic Charts & Graphs
- Screenshot Photography
- Live Event Photography



Main Logos



RaceDay Suite Logos



General Icons



RaceDay Icons

Generic



Users • Customers • People



Payments



Swag Store



Endurance Events



RunSignup Icons

Generic



Users • Customers • People



Payments



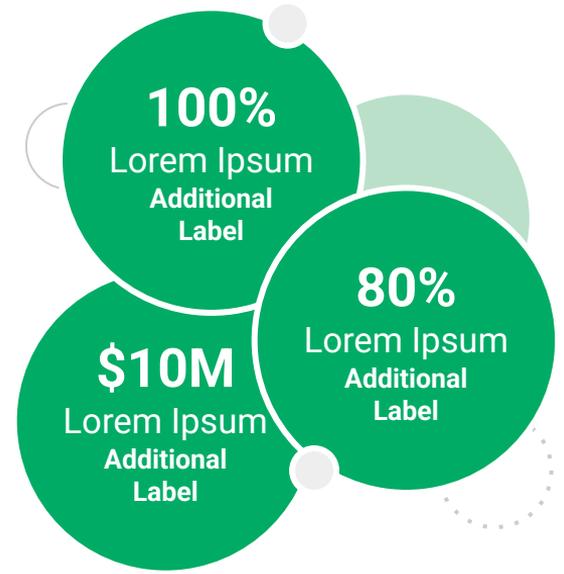
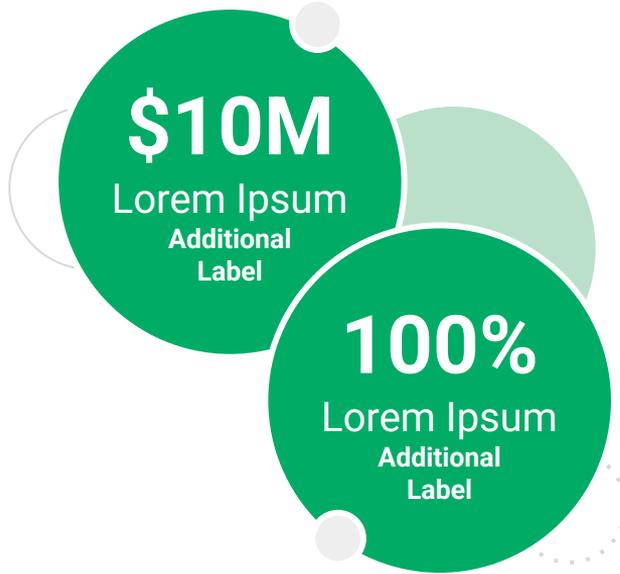
Swag Store



Endurance Events



Stat Bubbles

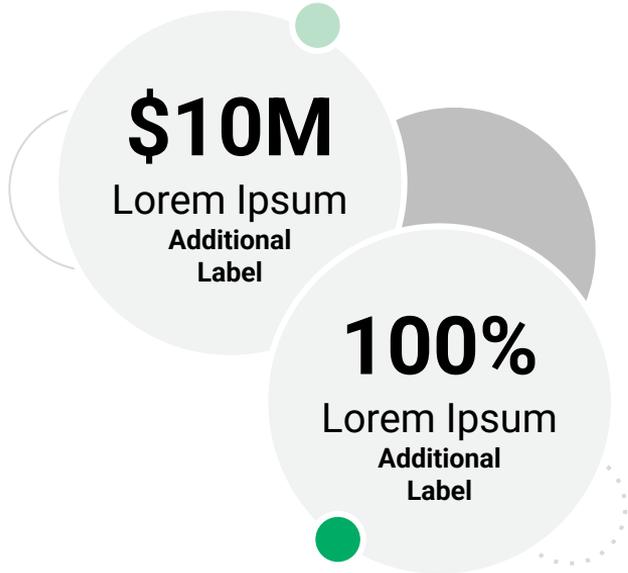


Stat Bubbles



Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Sed cursus ante dapibus diam.

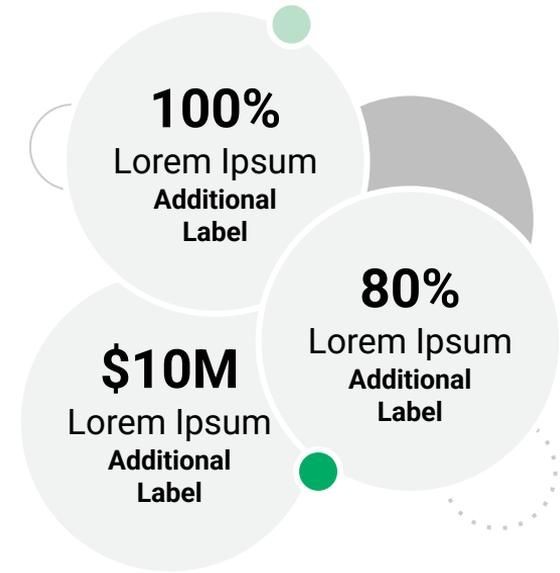
This bubble features a large light gray circle with a green circle at the top right and a green semi-circle at the bottom left.



\$10M
Lorem Ipsum
Additional Label

100%
Lorem Ipsum
Additional Label

This set of bubbles includes a top bubble with a green circle at the top and a bottom bubble with a green circle at the bottom. A gray semi-circle is positioned between them, and a dotted line is at the bottom right.



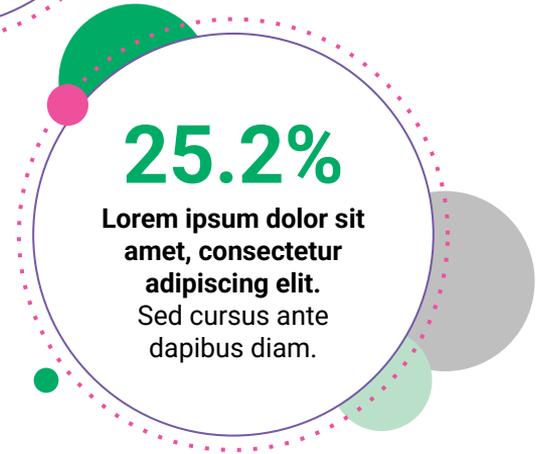
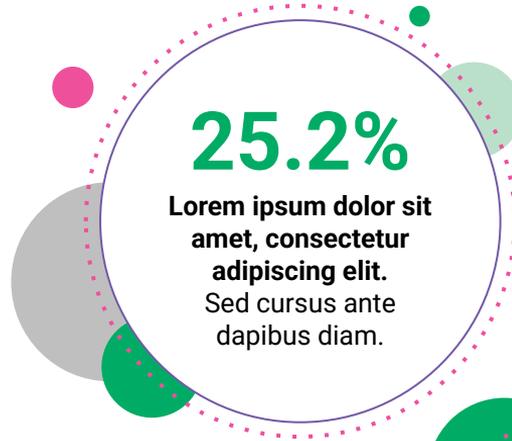
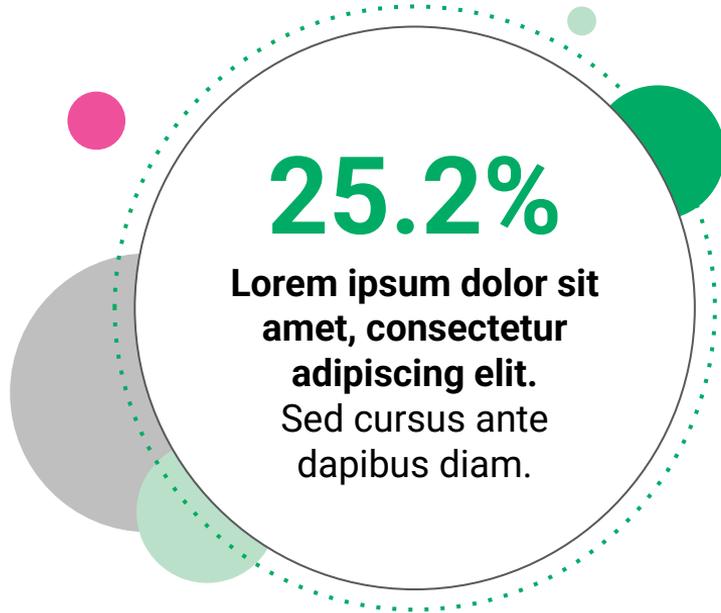
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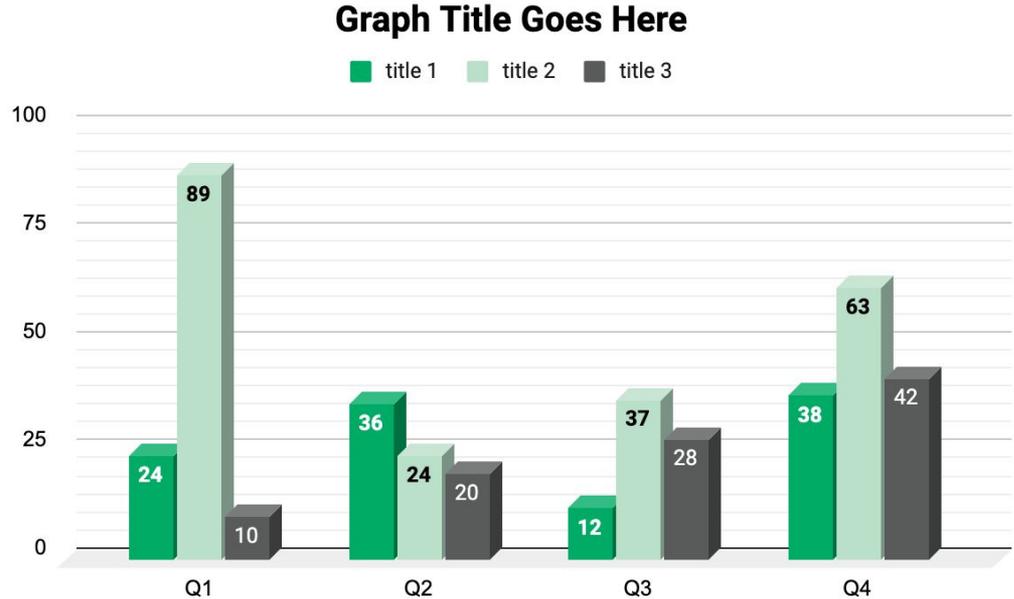
This set of bubbles includes a top bubble with a green circle at the top, a bottom-left bubble with a green circle at the bottom, and a bottom-right bubble with a green circle at the bottom. A gray semi-circle is between the top and bottom-left bubbles, and a dotted line is at the bottom right.

Stat Bubbles



Basic Charts & Graphs

Chart Title				
Section Title				
Data Title	Data Title	Data Title	Data Title	Data Title
XX	XX	XX	XX	XX
XX	XX	XX	XX	XX
XX	XX	XX	XX	XX
Section Title				
Data Title	Data Title	Data Title	Data Title	Data Title
XX	XX	XX	XX	XX
XX	XX	XX	XX	XX
XX	XX	XX	XX	XX



Screenshot Photography

Use this layout to showcase product screenshots for desktop

To insert an image:

- Click on the icon on the laptop
- Select “Upload from computer”
- Click through to where your image file is located on your computer, select the file, and hit enter.



Screenshot Photography

Use this layout to showcase product screenshots for mobile

To insert an image:

- Click on the icon on the mobile device
- Select “Upload from computer”
- Click through to where your image file is located on your computer, select the file, and hit enter.



Screenshot Photography

Use this layout to showcase product screenshots for desktop + mobile

To insert an image:

- Click on the icon on the laptop
- Select “Upload from computer”
- Click through to where your image file is located on your computer, select the file, and hit enter.



Screenshot Photography

*Use these devices to
create your own layout(s)*



Live Photography



**Click to
Download**
these images
from BrandFolder

