

Better Cue Sheets For Everyone

Who is this guy?

ENY lone wolf since 2010

**“Active” NYCC ~~forum troll~~
member since 2013**

A-SIG ‘14, A-Classic ‘15, ‘16...

I write software...



ridewithgps.com/routes/

Enter Route #





ridewithgps.com/routes/

Enter Route #



(not my day job)



"Six Caps" Reunion Tour (71.5 mi / 6329 ft)

Route #616339

Go	At	On	For	Go	At	On	For
	0.0	Start of route	0.0	BL	34.8	TRO Zukor Rd	1.0
R	0.0	Orto Hudson Terrace from Strick's Parking Lot	0.6	L	35.8	S Mountain Rd	1.5
L	0.7	Orto bike path at Bruce Reynolds Biv / Palisades Interstate Park entrance	0.4	A	37.2	Top of #4 - Little Tor (Rgroup at Trailhead)	0.8
L	1.0	Orto River Road, at end of path. SLEEP	2.4	L	38.1	US 202 W/Hamapo Rd	2.4
BL	3.4	TRO River Road	4.7	PHI	40.4	David's Chapel, on Left	0.4
R	8.1	@ Circle, take exit to descend down to Stoe Stein	0.0	R	40.8	Ladontown Rd	0.3
QR	8.2	Take first right @ circle to continue Alpine Climb	0.3	R	41.1	N Camp Hill Rd	0.9
S	8.5	Make a U-Turn. Back up we go!	0.3	R	42.0	Call Hollow Rd	2.3
S	8.8	@ Circle, take the 1st exit onto Henry Hudson Dr	1.0	L	44.3	Willow Grove Rd => Gate Hill Road	2.8
PHI	8.8	Alpine PD (Rgroup Here)	0.1	BR	47.1	Lake Welch Access Road (Rgroup here)	0.8
QR	8.9	Alpine Approach Rd	0.2	BL	47.9	Keep left, go around parking lot	0.4
R	10.0	Route SW	4.1	L	48.2	Left to exit parking lot => Lake Welch Pkwy	1.7
L	14.2	Oak Tree Rd => Main St => King's Hwy	2.2	Δ	49.9	Prepare for U-Turn	0.1
BL	16.4	Greenbush Rd => Western Hwy S	3.0	PHI	50.1	SHARP U-Turn onto Torral Brook Rd. GEAR DOWN!	0.0
R	19.4	E Erie St	0.5	S	50.1	Lake Welch Pkwy => Torral Brook Road	3.7
L	19.8	W 300 N	0.5	BL	50.1	Note: #5 - Torral Brook Rd	0.0
BR	20.2	Greenbush Rd	0.5	R	53.8	@ Circle, take the 1st exit onto Seven Lakes Drive	0.0
R	20.7	Bradley Pkwy	0.6	PHI	53.8	Torral Circle (Rgroup here)	0.0
R	21.3	TRO Bradley Pkwy	0.4	QR	53.8	Exit circle onto 7 Lakes Drive	3.7
BR	21.7	Co Rd S / Park Rd => Tweed Blvd	1.5	R	57.5	@ Circle, take 2nd Exit towards Bear Mountain / 7 Lakes Dr	0.4
R	23.2	Claustand Mountain Rd (Rgroup here)	1.3	Δ	57.9	Merge onto PIP (TRAFFIC - move right)	0.1
R	24.5	Greenbush Rd	0.4	R	58.1	1st Exit 18 toward Perkins Memorial Dr / Bear Mountain => 7 Lakes Dr	1.1
L	24.9	E Erie St	0.6	L	59.2	Sharp left onto Perkins Memorial Dr	2.3
L	27.7	W Nyack Rd	0.4	PHI	59.2	Note: #6 - Bear Mt.	0.1
R	28.1	Co Rd 23/Strawtown Rd	2.3	L	61.4	TRO Perkins Memorial Dr	0.1
R	30.4	TRO Strawtown Rd	2.3	QR	61.5	to go back down Bear Mt.	1.9
L	32.7	Congers Rd	0.1	BL	63.4	Seven Lakes Drive	1.8
R	32.9	Goebel Rd	1.0				
L	33.7	Haverfraw Rd/Old Rte 304 [END]	0.8				
R	34.5	Zukor Rd [END]	0.3				

Page 1 of 2

Show of hands:

*Have you made a route using
RideWithGPS before?*

Step Zero: Make an Account

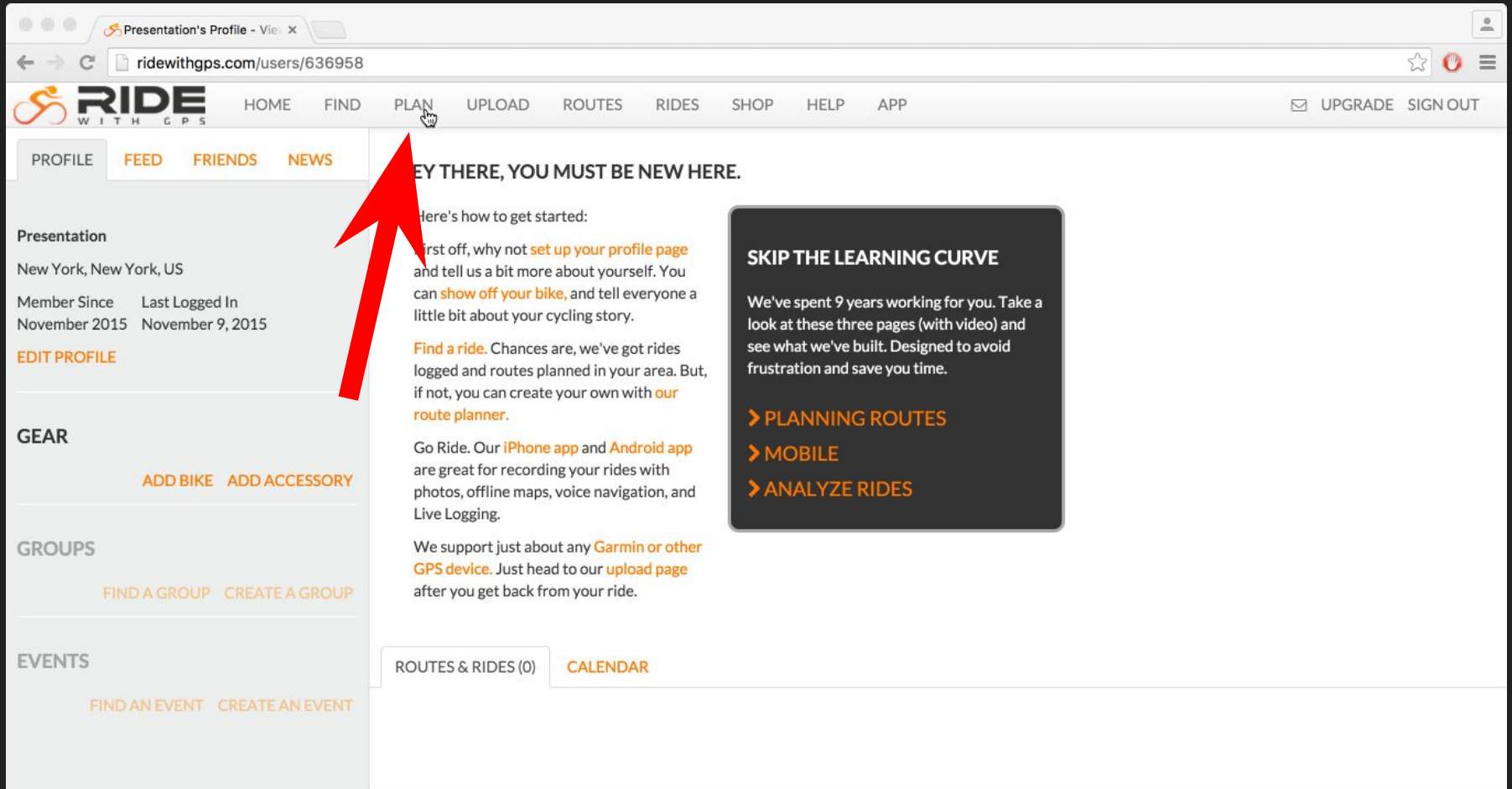
<http://www.ridewithgps.com>

(left as an exercise for the reader)

Making a route - The Basics

The screenshot shows a web browser window with the URL `ridewithgps.com/users/636958`. The page title is "Presentation's Profile - View". The navigation bar includes links for HOME, FIND, PLAN (highlighted with a mouse cursor), UPLOAD, ROUTES, RIDES, SHOP, HELP, and APP. On the right side of the navigation bar are links for UPGRADE and SIGN OUT. The left sidebar contains tabs for PROFILE, FEED, FRIENDS, and NEWS. Below these are sections for "Presentation" (New York, New York, US; Member Since November 2015; Last Logged In November 9, 2015), "GEAR" (ADD BIKE, ADD ACCESSORY), "GROUPS" (FIND A GROUP, CREATE A GROUP), and "EVENTS" (FIND AN EVENT, CREATE AN EVENT). The main content area features a heading "HEY THERE, YOU MUST BE NEW HERE." followed by a "Here's how to get started:" section. This section includes instructions to set up a profile page, show off a bike, find a ride, and use the mobile app. A dark grey box titled "SKIP THE LEARNING CURVE" contains a message about the site's 9-year history and offers links to "PLANNING ROUTES", "MOBILE", and "ANALYZE RIDES". At the bottom of the main content area, there are tabs for "ROUTES & RIDES (0)" and "CALENDAR".

Making a route - The Basics



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HOME FIND **PLAN** UPLOAD ROUTES RIDES SHOP HELP APP

PROFILE FEED FRIENDS NEWS

WELCOME THERE, YOU MUST BE NEW HERE.

Here's how to get started:

First off, why not [set up your profile page](#) and tell us a bit more about yourself. You can [show off your bike](#), and tell everyone a little bit about your cycling story.

Find a ride. Chances are, we've got rides logged and routes planned in your area. But, if not, you can create your own with [our route planner](#).

Go Ride. Our [iPhone app](#) and [Android app](#) are great for recording your rides with photos, offline maps, voice navigation, and Live Logging.

We support just about any [Garmin](#) or [other GPS device](#). Just head to our [upload page](#) after you get back from your ride.

SKIP THE LEARNING CURVE

We've spent 9 years working for you. Take a look at these three pages (with video) and see what we've built. Designed to avoid frustration and save you time.

- [PLANNING ROUTES](#)
- [MOBILE](#)
- [ANALYZE RIDES](#)

EDIT PROFILE

GEAR

[ADD BIKE](#) [ADD ACCESSORY](#)

GROUPS

[FIND A GROUP](#) [CREATE A GROUP](#)

EVENTS

[FIND AN EVENT](#) [CREATE AN EVENT](#)

ROUTES & RIDES (0) [CALENDAR](#)

Making a route - The Basics

The screenshot shows the 'RIDE WITH GPS' website interface for creating a new route. The browser address bar shows 'ridewithgps.com/routes/new'. The top navigation menu includes 'HOME', 'FIND', 'PLAN', 'UPLOAD', 'ROUTES', 'RIDES', 'SHOP', 'HELP', 'APP', 'UPGRADE', and 'SIGN OUT'. The main map area shows a route highlighted in orange, starting near the Hudson River and heading east through Manhattan. The sidebar on the left contains buttons for 'ADD ROUTE', 'CLEAR MAP', 'ADD EXISTING ROUTE', 'EDIT', 'Cuesheet', 'Garmin Write', and 'SAVE EVENT'. The right-hand panel has tabs for 'OVERVIEW' and 'OPTIONS', a 'JUMP TO A LOCATION' section with an input field and 'GO' button, a 'JUMP TO HOME' button, an 'OR CLICK TO:' section with a 'FOLLOW ROADS' button, an 'OPTIMIZE FOR:' section with 'WALKING', 'CYCLING', and 'DRIVING' buttons, a checked 'AVOID HIGHWAYS' option, and several other options like 'DRAW LINES', 'ADD POI', 'ADD TO CUESHEET', 'ADD/REMOVE CONTROL POINT', and 'LINE COLOR' with a color palette. The bottom status bar shows 'ELE GRADE' and '0.0 mi +0 ft / -0 ft'.

Making a route - The Basics

The screenshot displays the 'RIDE WITH GPS' website interface. The main map shows a route highlighted in orange along the Hudson River and through Manhattan. A vertical elevation profile is visible on the left side of the map. The interface includes a navigation menu at the top with options like HOME, FIND, PLAN, UPLOAD, ROUTES, RIDES, SHOP, HELP, and APP. On the right side, there are tabs for OVERVIEW and OPTIONS, and a section for JUMP TO A LOCATION with an input field and a GO button. Below that, there are options for OR CLICK TO: FOLLOW ROADS and OPTIMIZE FOR: WALKING, CYCLING, DRIVING. The elevation profile at the bottom shows a scale of 0.0 mi +0 ft / -0 ft. The interface is annotated with four red boxes containing white text: 'Cue Entries' on the left sidebar, 'Route Map' over the map, 'Elevation Profile' over the profile graph, and 'Toolbar' over the right sidebar controls.

Cue Entries

Route Map

Elevation Profile

“Toolbar”

Making a route - The Basics

The screenshot shows the 'RIDE WITH GPS' website interface for creating a new route. The browser address bar shows 'ridewithgps.com/routes/new'. The navigation menu includes HOME, FIND, PLAN, UPLOAD, ROUTES, RIDES, SHOP, HELP, APP, UPGRADE, and SIGN OUT. The main map area shows a yellow route starting from the Hudson River and heading east through Manhattan. The sidebar on the left contains buttons for 'ADD ROUTE', 'CLEAR MAP', 'ADD EXISTING ROUTE', 'EDIT', 'Cuesheet', 'Garmin Write', and 'SAVE EVENT'. The right-hand panel has tabs for 'OVERVIEW' and 'OPTIONS', a 'JUMP TO A LOCATION' section with an input field and 'GO' button, a 'JUMP TO HOME' button, an 'OR CLICK TO:' section with a 'FOLLOW ROADS' button, an 'OPTIMIZE FOR:' section with 'WALKING', 'CYCLING', and 'DRIVING' buttons, a checked 'AVOID HIGHWAYS' checkbox, and several other options like 'DRAW LINES', 'ADD POI', 'ADD TO CUESHEET', 'ADD/REMOVE CONTROL POINT', and 'LINE COLOR' with a color palette. The bottom status bar shows 'ELE GRADE' and '0.0 mi +0 ft / -0 ft'.

Critical Hint #1: Enable Cue Markers

(do this first!)

Enabling Cue Markers

The screenshot shows the RIDE WITH GPS website interface. The main map displays a route in orange along the Hudson River and through Manhattan. The left sidebar contains controls for route management: 'ADD ROUTE', 'CLEAR MAP', 'ADD EXISTING ROUTE', 'Unnamed route', 'EDIT', 'Cuesheet', 'Garmin Write', and 'SAVE EVENT'. The top navigation bar includes 'HOME', 'FIND', 'PLAN', 'UPLOAD', 'ROUTES', 'RIDES', 'SHOP', 'HELP', 'APP', 'UPGRADE', and 'SIGN OUT'. The right-hand panel has tabs for 'OVERVIEW' and 'OPTIONS', a 'JUMP TO A LOCATION' section with an input field and 'GO' button, a 'JUMP TO HOME' button, an 'OR CLICK TO:' section with a 'FOLLOW ROADS' button, an 'OPTIMIZE FOR:' section with 'WALKING', 'CYCLING', and 'DRIVING' buttons, a checked 'AVOID HIGHWAYS' option, a 'DRAW LINES' section with 'ADD POI', 'ADD TO CUESHEET', and 'ADD/REMOVE CONTROL POINT' buttons, a 'LINE COLOR' section with a color palette, and a 'NEED HELP?' link. The bottom status bar shows 'ELE GRADE' and '0.0 mi +0 ft / -0 ft'.

Enabling Cue Markers - Hit "Options"

The screenshot shows the RideWithGPS website interface. The main map displays a route in orange along the Hudson River and through Manhattan. The 'Options' menu is open on the right side, with a red arrow pointing to the 'OPTIONS' tab. The menu includes sections for 'JUMP TO A LOCATION', 'OR CLICK TO:', 'FOLLOW ROADS', 'OPTIMIZE FOR:', 'DRAW LINES', 'LINE COLOR', and 'NEED HELP?'. The 'OPTIMIZE FOR:' section has 'AVOID HIGHWAYS' checked. The 'LINE COLOR' section shows a color palette with red selected.

Map a Bike Ride on our Bike x

ridewithgps.com/routes/new

HOME FIND PLAN UPLOAD ROUTES RIDES SHOP HELP APP UPGRADE SIGN OUT

ADD ROUTE CLEAR MAP

ADD EXISTING ROUTE

Unnamed route

EDIT

Cuesheet Garmin Write

SAVE EVENT

OVERVIEW **OPTIONS**

JUMP TO A LOCATION

Enter a location GO

JUMP TO HOME

OR CLICK TO:

FOLLOW ROADS

Click along the roads you want to travel on and we'll generate a cuesheet and elevation profile as you plan. Feel free to click and drag your route around to correct any mistakes. Avoid clicking intersections as this can confuse the planner and result in incorrect cuesheet entries. [Get more route planning help here.](#)

OPTIMIZE FOR:

WALKING CYCLING DRIVING

AVOID HIGHWAYS

DRAW LINES

ADD POI

ADD TO CUESHEET

ADD/REMOVE CONTROL POINT

LINE COLOR

NEED HELP?

Google ELE GRADE 0.0 mi +0 ft / -0 ft

Enabling Cue Markers

The screenshot shows the 'ridewithgps.com/routes/new' page. The main map displays a route in orange along the Hudson River and through Manhattan. The 'OPTIONS' menu is open, showing the following settings:

- Imperial (ft/mi)
- Show Cue Icons
- Auto Center
- Enable scrollwheel zoom
- Enable distance markers
- Generate cuesheet while planning

The 'Generate cuesheet while planning' option is checked, which is the goal of the tutorial. The 'Show Cue Icons' option is currently unchecked.

Enabling Cue Markers: Click “Show Cue Icons”

The screenshot shows the RIDE WITH GPS website interface. The browser's address bar displays `ridewithgps.com/routes/new`. The navigation menu includes HOME, FIND, PLAN, UPLOAD, ROUTES, RIDES, SHOP, HELP, APP, UPGRADE, and SIGN OUT. On the left, there are buttons for ADD ROUTE, CLEAR MAP, and ADD EXISTING ROUTE. Below these, an 'Unnamed route' is shown with an EDIT dropdown, Cuesheet, and Garmin Write options. A SAVE EVENT button is at the bottom left. The main map area shows a route in orange along the Hudson River in Manhattan. A red box with the text 'Enable!' and a red arrow points to the 'Show Cue Icons' checkbox in the settings panel on the right. The settings panel includes a unit selector (Imperial (ft/mi)), and checkboxes for Show Cue Icons, Auto Center, Enable scrollwheel zoom, Enable distance markers, and Generate cuesheet while planning. The bottom status bar shows 'ELE GRADE' and '0.0 mi +0 ft / -0 ft'.

Enable!

- Imperial (ft/mi)
- Show Cue Icons
- Auto Center
- Enable scrollwheel zoom
- Enable distance markers
- Generate cuesheet while planning

Enabling Cue Markers

The screenshot shows the 'ridewithgps.com/routes/new' page. The main map displays a route along the Hudson River in Manhattan, highlighted in orange. The 'OPTIONS' menu is open on the right side, with the following settings:

- Imperial (ft/mi)
- Show Cue Icons
- Auto Center
- Enable scrollwheel zoom
- Enable distance markers
- Generate cuesheet while planning

A red box highlights the 'Map' dropdown menu in the top right corner of the map area. The map shows various streets and landmarks in Manhattan, including the Hudson River, the American Museum of Natural History, and the Lincoln Center. The bottom of the map shows a search bar with 'ELE GRADE' and a scale of 0.0 mi +0 ft / -0 ft.

Setup complete.

Live Demo

(pray for me)

(Demo done)

Why do it this way?

(i.e., “What’s wrong with Excel?”)

Garmin “BEEP” = Cuesheet Entry

(1:1 correspondence = fewer distractions)

**Online map matches the cue sheet,
aka WYCIWYG**

(“What you cue is what you Garmin”)

100% reproducible for future riders

(“Pay it forward”)

Resources

- Slides available at http://roboviva.ninja/nycc_slides.pdf
- RideWithGPS at <http://www.ridewithgps.com>
- Roboviva at <http://roboviva.ninja>
- My tutorial on cue sheets at: http://nycc.org/Better_Cue_Sheets
- NYCC user “mucow”
 - *(PM me for email)*

