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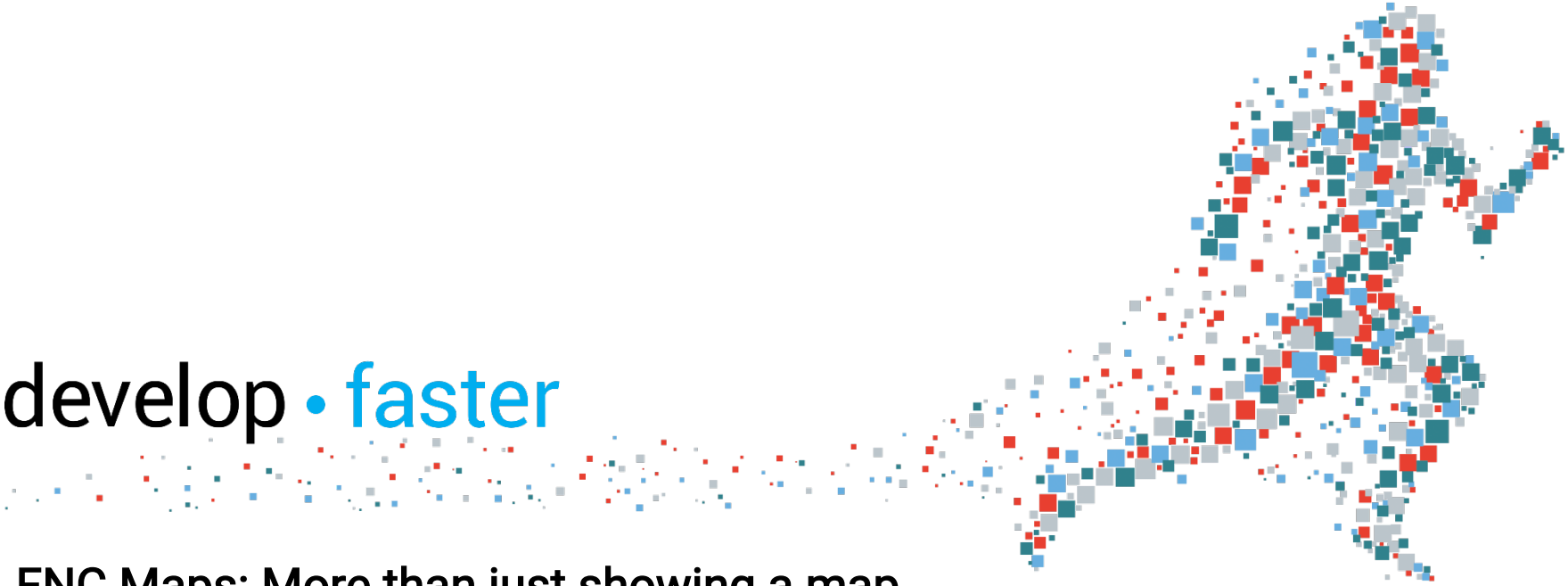

FNC Maps: More than just showing a map

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youtube.com/tmssoftwareTV

Holger’s CV

- Delphi Developer since Delphi 2
- Diplom (Master Degree) in Computer Science
- Doctorate in Engineering
- Borland, CodeGear Delphi Team QA

- Embarcadero MVP
- GitKraken Ambassador

- TMS Chief Evangelist
- Bruno’s #1 Cause of High Blood Pressure
- Author of several Delphi books

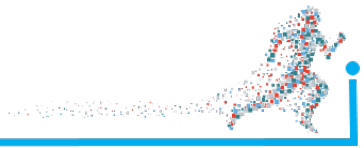
Software Development & Training

- holger@flixengineering.com
- Offices in United States and Germany


$$\varepsilon_{ex} = \frac{dQ_{ex}}{de} \cdot \frac{e}{Q_{ex}}; \quad \varepsilon_{im} = \frac{dQ_{im}}{de} \cdot \frac{e}{Q_{im}}.$$
$$NE(e) = Q_{ex}(e) - eQ_{im}(e),$$
$$\Delta NE = \frac{dQ_{ex}}{de}\Delta e - e\frac{dQ_{im}}{de}\Delta e - eQ_{im}.$$
$$B(a, b) = \int_0^1 (1-x)^{b-1} d\frac{x^a}{a} =$$
$$= \frac{x^a(1-x)^{b-1}}{a}\Big|_0^1 + \frac{b-1}{a}\int_0^1 x^a (1-x)^{b-2} dx =$$
$$= \frac{b-1}{a}\int_0^1 x^{a-1}(1-x)^{b-2}dx - \frac{b-1}{a}\int_0^1 x^{a-1}(1-x)^{b-1}dx =$$
$$= \frac{b-1}{a} B(a, b-1) - \frac{b-1}{a} B(a, b),$$
$$B(a, b) = \frac{b-1}{a+b-1} B(a, b-1).$$
$$r_t = \frac{\sum_{t=2}^{n}(y_t - \bar{y}_1)\cdot(y_{t-1} - \bar{y}_2)}{\sqrt{\sum_{t=2}^{n}(y_t - \bar{y}_1)^2 \cdot \sum_{t=2}^{n}(y_{t-1} - \bar{y}_2)^2}}$$
$$x_{tu} = \frac{\sum Po q_t}{\sum q_t} + \frac{\sum Po q_0}{\sum q_0}$$
$$\beta_{yx} = r_{yx} * \frac{\sum y}{\sum x}, (4)$$
$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty}(a_n \cos nx + b_n \sin nx)$$
$$\tilde{G}^2(\varepsilon) = \tilde{S}^2(\varepsilon) = \frac{\sum_{i=1}^{n} e_i^2}{n-2}, (1)$$
$$\bar{y}_1 = \frac{\sum_{t=2}^{n} y_t}{n-1}; \quad \bar{y}_2 = \frac{\sum_{t=2}^{n} y_{t-1}}{n-1};$$
$$\frac{\sum_{i=1}^{N} \nabla x_f \cdot \nabla y_f}{\sqrt{\sum_{i=1}^{N} \nabla^2 x_f \cdot \sum_{i=1}^{N} \nabla^2 y_f}}$$
$$\frac{\overline{X} - u}{X^2}$$
$$X^T X = \begin{pmatrix} h & \sum_{i=1}^{h} x_{i1} & \sum_{i=1}^{h} x_{i2} \\ \sum_{i=1}^{h} x_{i1} & \sum_{i=1}^{h} x_{i1}^2 & \sum_{i=1}^{h} x_{i1}x_{i2} \\ \sum_{i=1}^{h} & & \sum_{i=1}^{h} x_{i2}^2 \end{pmatrix}; \quad X^T y = \begin{pmatrix} \sum_{i=1}^{h} y_i \\ \sum_{i=1}^{h} x_{i1} y_i \\ \sum_{i=1}^{h} x_{i2} y_i \end{pmatrix}$$
$$\iint \sqrt{x+\sqrt{y}}\, dxdy$$
Integrate[1 / (x^6 + x^2 + 2), {x, 0, Infinity}]
$$\frac{8}{105}\left(x+\sqrt{y}\right)^{5/2}\left(-2x+5\sqrt{y}\right)$$
$$\frac{1}{56}\left(7+\sqrt{7(-5+4\sqrt{2})}\right)\pi$$
A
B
F
C
L

Beware of Demos!

- This is not a theoretical session.
- This is not a ”sales” session.
- Instead, lots of examples will be presented how to make the best use out of Delphi with TMS tools!



All Infos, Source Code, …

Holger's Guidebook

Search Holger's Guidebook

Holger's Books Video Courses

- Welcome
- Scenario
- Session 1: TMS FlexCel
  - **Creating the template**
  - Data module
  - Preview
- Session 2: TMS FNC Maps
- Session 3: Multi-tier Web

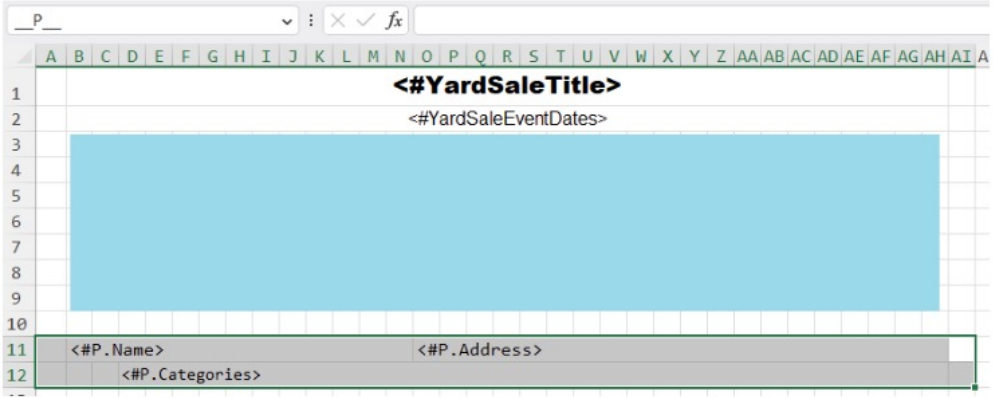
Session 1: TMS FlexCel / Creating the template

Creating the template

The template will be completely created in Microsoft Excel.

NOTE

Obviously, you could generate the template document using FlexCel API as well. However, designing in Microsoft Excel is much easier.

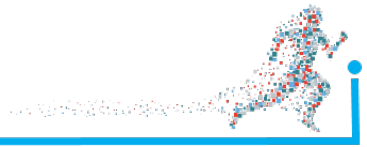


- Information for the yard sale record is not linked to the dataset. Instead, two placeholders are

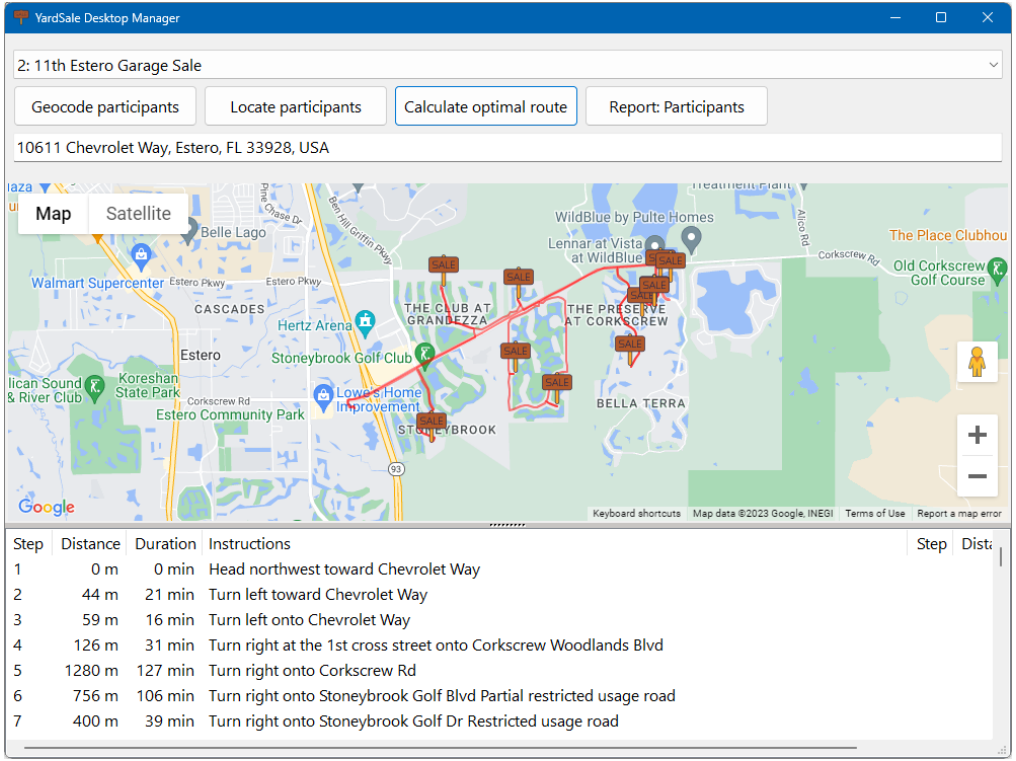
All Infos, Source Code, …

- Follow me live

  https://tmsdays.flixengineering.freemyip.com/



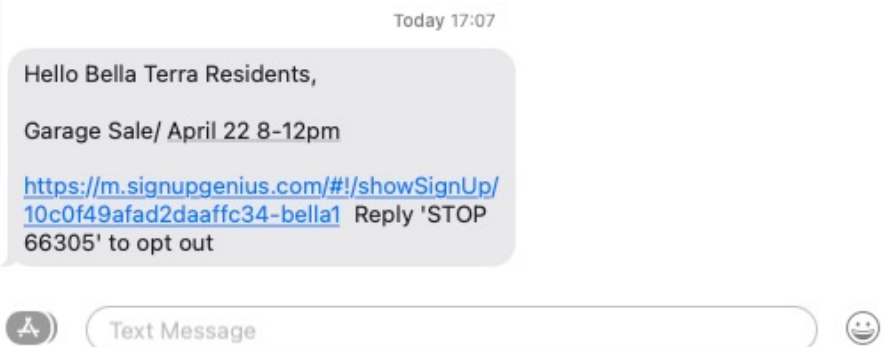
What you will learn




GARAGE
SALE

Scenario


BELLA TERRA GARAGE SALE
APRIL 22 FROM 8-12
PLEASE SCAN LINK BELOW TO SIGN UP FOR THE GARAGE SALE. PLEASE INCLUDE YOUR ADDRESS SO WE CAN SEND OUT A LIST OF THE GARAGE SALES LOCATIONS.


Today 17:07
Hello Bella Terra Residents,
Garage Sale/ April 22 8-12pm
https://m.signupgenius.com/#!/showSignUp/10c0f49afad2daaffc34-bella1 Reply 'STOP 66305' to opt out
Text Message

Scenario

Garage Sale
Saturday April 22, 2023
8:00 am – 12:00 pm

21432 Velino Ln20715 Torre Del Lago Street
21831 Bella Terra Bkvd
21329 BTBlvd
21779 Bella Terra Blvd
21181 Palese Drive
13854 Farnese Dr
20357 Torre Del Lago St
21006 Torre Del Lago
20596 Torre Del Lago
21209 Bella Terra Blvd
20450 Ardore Ln.
21628 Belvedere Lane
13509 Loreo Ct
20644 Torre Del Lago st
20335 Ardore Ln
13862 SORANO Court
20081 Serre Dr. Estero, FL 33928
13566 Messino Ct
21445 Bella Terra Blvd
21090 Cosenza Ct
21513 Belvedere Ln (cul-de-sac)
20101 Larino Loop dr
21420 Bella Terra Blvd
20569 Torre Del Lago st
Garage sale
20444 Ardore
21513 Belvedere lane (cul-de-sac)
20268 torre del lago st
20965 Torre Del Lago St
20626 Torre Del Lago
20085 Larino Loop
21579 Belvedere
13649 Messino Court
21294 Bella Terra Blvd.
2461 Ardore ln
21031 Torre Del Lago St
21007 Bosco ct, Estero Florida 33928
20505 Ardore Ln
21436 Bella Terra Blvd
21315 Bella Terra Blvd
21106 Palese Drive
13553 Messino
20753 Torre del lago
21741 bella terra blvd
21421 Bella Terra Boulevard
20436 Larino Loop
21301 Velino Lane
13892 Cleto dr. Estero fl
13549 Troia Drive
20201 Larino Loop
21083 Bosco Ct.
20430 Larino Loop
21082 Bosco Ct
21052 Bosco Ct
20452 torre del lago street
20304 Larino Loop
13258 Boccala
13896 Cleto
20449 Ardore Lane
13610 Lucera Ct.
21736 Bella Terra Blvd
21736 Bella Terra Blvd
20328 Larino Loop
21854 Bella Terra Blvd
20492 Ardore Ln
13856 Soriano Ct
20516 Larino Loop
13206 Lazzaro Ct
21420 Bella Terra Blvd
20569 Torre Del Lago st
Garage sale
20444 Ardore
21513 Belvedere Lane (cul-de-sac)
20268 torre del lago st
20965 Torre Del Lago St
20626 Torre Del Lago
20085 Larino Loop
21579 Belvedere
13649 Messino Court
21294 Bella Terra Blvd.
2461 Ardore ln
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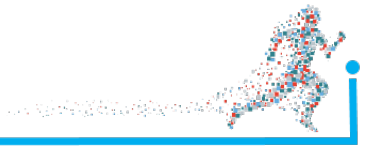
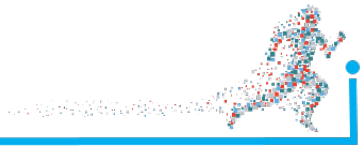
21315 Bella Terra Blvd
21106 Palese Drive
13553 Messino
20753 Torre del lago
21741 bella terra blvd
21421 Bella Terra Blvd



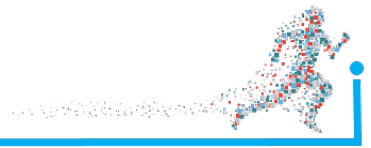
Scenario

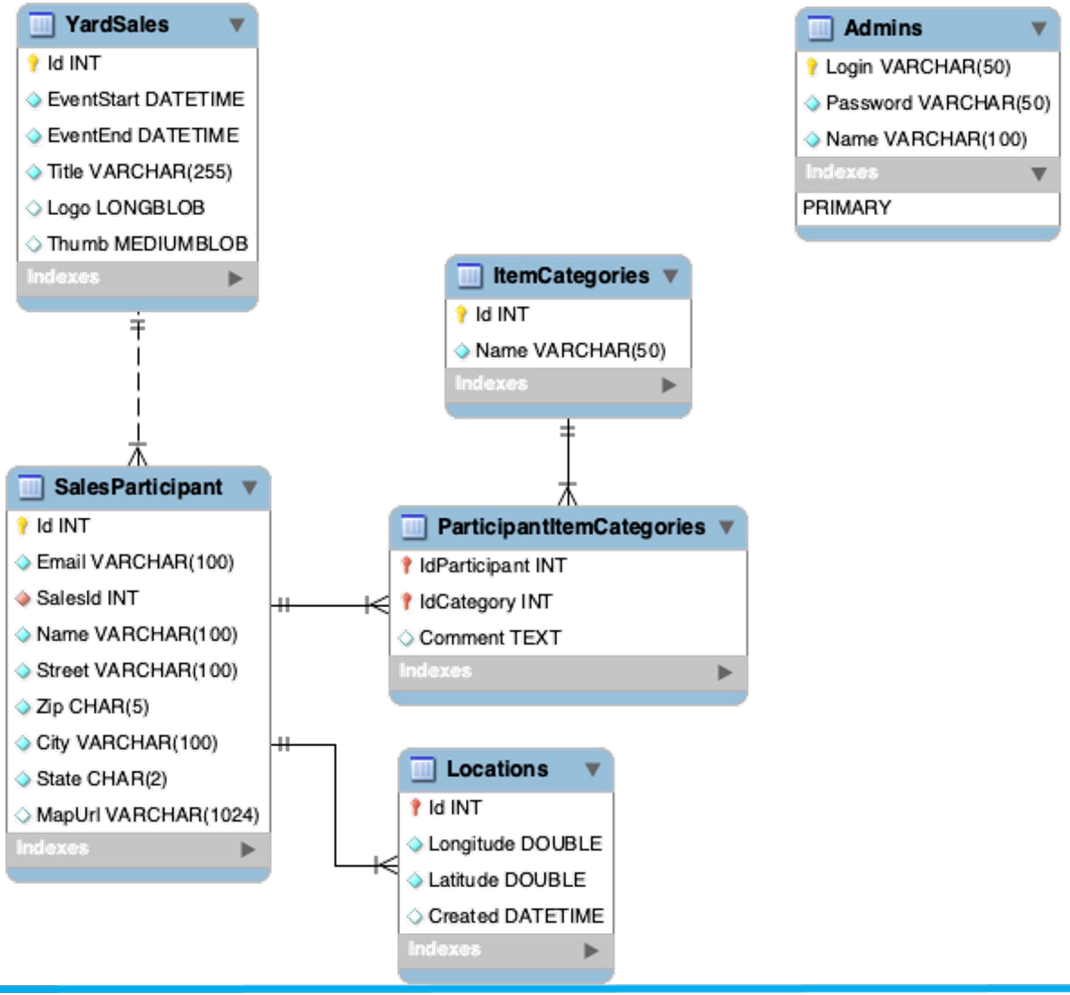
- FNC Maps:
  - Locate all participants on a map (geocoding)
  - Add custom markers to the map
  - Create an optimal route to visit all participants
  - Create turn-by-turn instructions



Scenario

- FlexCel:
  - Use FireDAC to access a MySQL database
  - Create a report of all participants with FlexCel
  - Provide the report as part of a web service
  - Locate and mark all participants on a map with custom icons
- TMS WEB Core and XData:
  - Create a web application that people can use to sign up
  - Create a web service backend to store and retrieve information for the sign up page
  - Responsive web design using Bootstrap




YardSales
Id INT
EventStart DATETIME
EventEnd DATETIME
Title VARCHAR(255)
Logo LONGBLOB
Thumb MEDIUMBLOB
Indexes
Admins
Login VARCHAR(50)
Password VARCHAR(50)
Name VARCHAR(100)
Indexes
PRIMARY
ItemCategories
Id INT
Name VARCHAR(50)
Indexes
SalesParticipant
Id INT
Email VARCHAR(100)
SalesId INT
Name VARCHAR(100)
Street VARCHAR(100)
Zip CHAR(5)
City VARCHAR(100)
State CHAR(2)
MapUrl VARCHAR(1024)
Indexes
ParticipantItemCategories
IdParticipant INT
IdCategory INT
Comment TEXT
Indexes
Locations
Id INT
Longitude DOUBLE
Latitude DOUBLE
Created DATETIME
Indexes