

QGIS Introductory Training

Data and Related Files:

<https://github.com/forum2k9/QGIS-Introductory-Training>

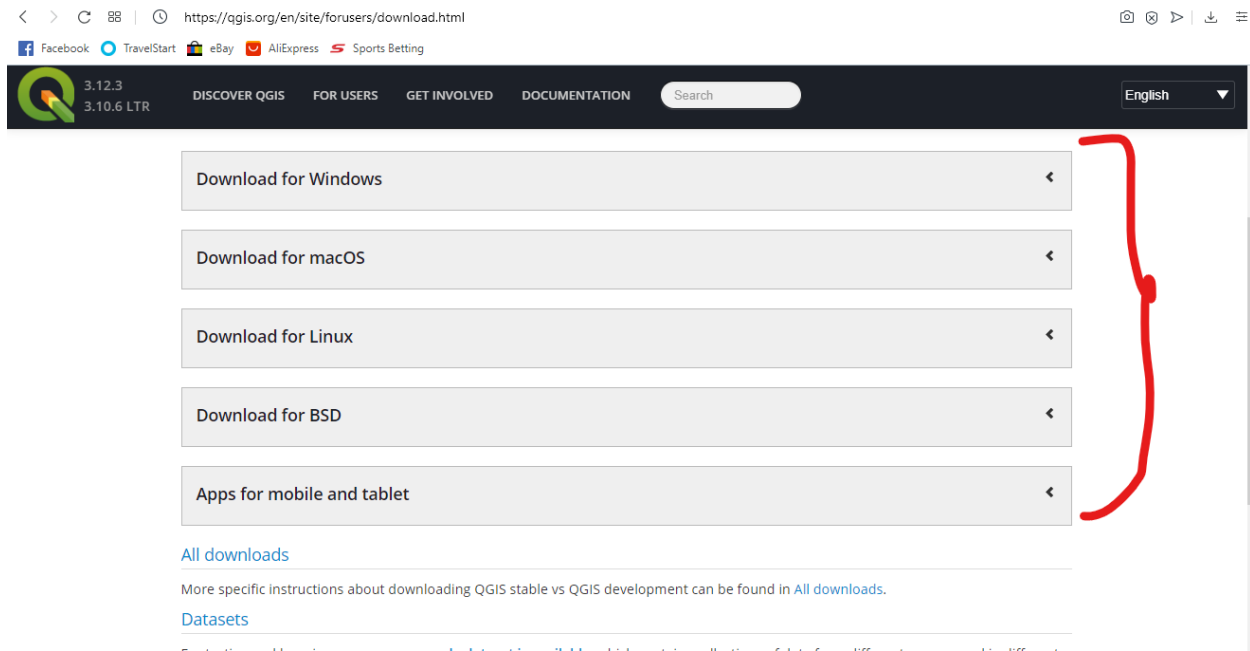
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Tel: +234-8039508010

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Getting the Software – Download and Installation

Download from Official website: <https://qgis.org>

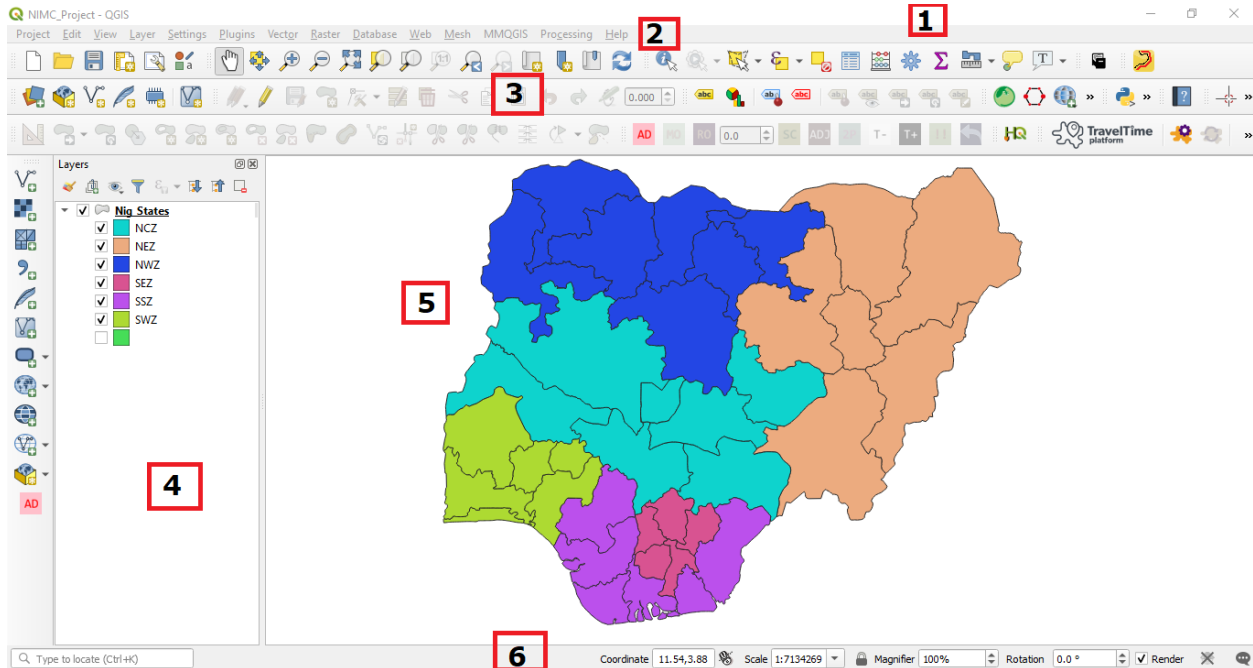
It is available on many operating systems (OS) including windows.



Run and install as usual. When it gets to the last screen seen below, click on finish.



Familiarity with QGIS interface and workflows



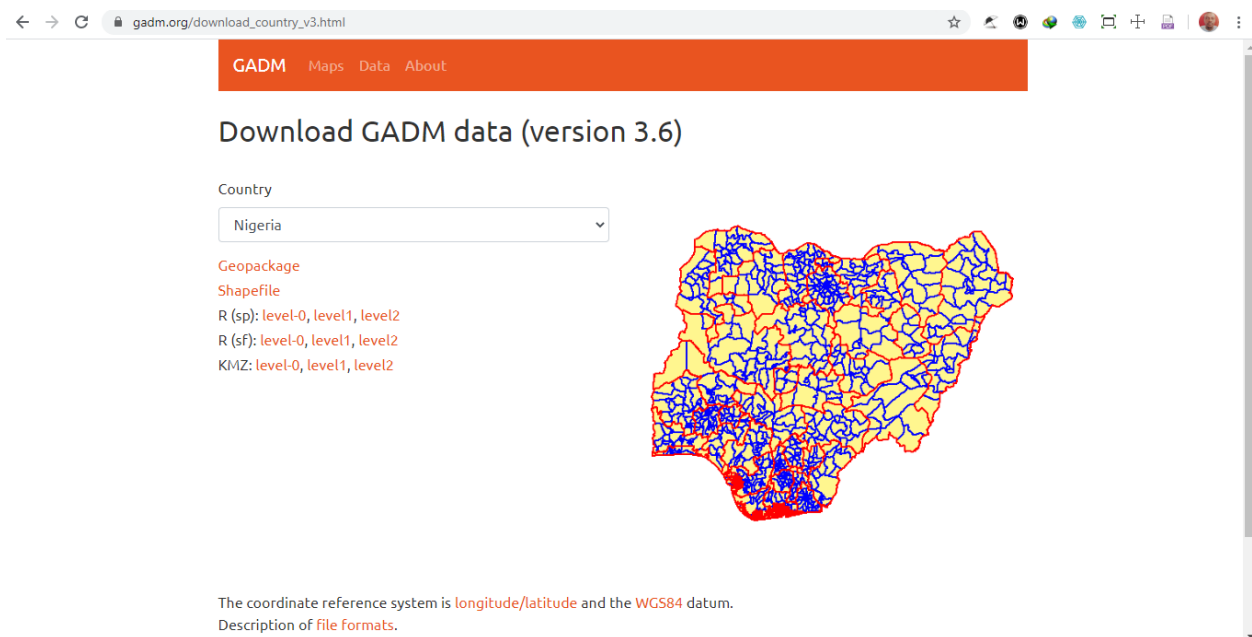
1. Title bar
2. Menu bar
3. Tools bar
4. Layers panel
5. Map canvas
6. Status bar

Getting data

The dataset for this training is available at:

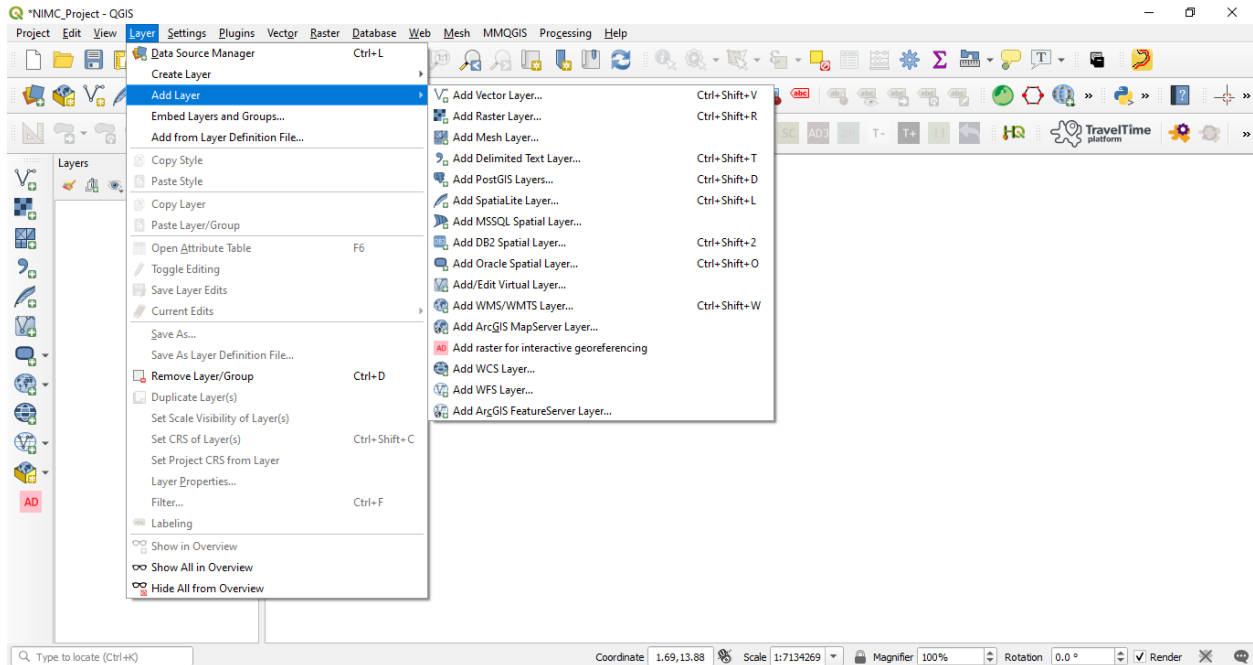
<https://github.com/forum2k9/QGIS-Introductory-Training>

However, if you need other administrative areas then download from GADM, the Database of Global Administrative Areas: <https://gadm.org>



Loading and Manipulating Data

Layer >> Add layer



You can load a dataset, from the 'layer' menu or using the 'add layer' icon from the tools bar.

Learn to:

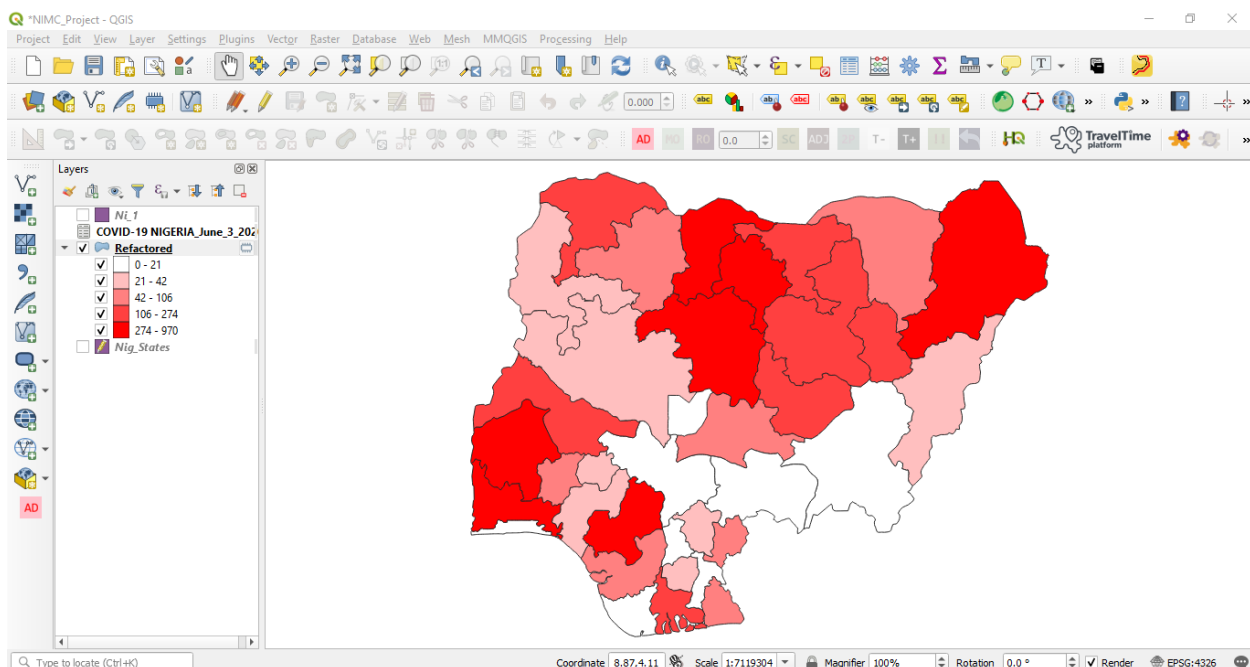
- Pan map
- Zoom In
- Zoom Out
- Select features
- Label map

Project1: Spatial Visualization and Analysis

National Identity Card Enrollment

Dataset: "Project_1_National Identity Card Enrollment.csv"

	A	B	C	D	E	F	G	H	I
1	State	Enroll_2015	Enroll_2016	Enroll_2017	Enroll_2018	Enroll_2019	Enroll_2020	Enroll_2021	Enroll_2022
2	Adamawa	13739	674465	1180	103037	54710	236110	18473	1094720
3	Ebonyi	17393	305276	1160	400271	102140	1708680	3074	1032885
4	Edo	4145	673511	800	291029	53540	1417230	1068	1733660
5	Ekiti	17195	259943	932	213917	28970	1844470	864	3156240
6	Enugu	5981	202343	1108	550067	51020	195245	1156	2245395
7	Fct	12029	586256	1124	656591	82250	1926410	940	1485425
8	Gombe	16511	601259	1821290	126275	9080	370615	836	494965
9	Imo	13271	267899	1679710	685157	55970	1821290	1180	3533385
10	Jigawa	8348	384206	2724580	366134	34460	1679710	1088	3428475
11	Kaduna	12722	337244	2152555	524183	116270	1839545	1168	696280
12	Kano	5459	291191	2724580	7763	87740	747220	1052	3123895
13	Katsina	9104	121469	465251	92147	53090	1092100	1100	1607505
14	Kebbi	1751	356387	168368	338783	11150	1729395	992	1468135
15	Kogi	74580	1092100	675833	321179	44360	1063140	1120	1390680
16	Kwara	1562610	1729395	581630	124790	47870	384330	1040	514710
17	Lagos	291029	848	169250	58379	79280	721785	1092	3914895
18	Nasarawa	213917	1028	360185	9122	38240	1471230	1172	1968105
19	Niger	550067	992	126266	18491	81980	220725	964	1096065
20	Ogun	656591	1092	693356	6863	20150	1588910	884	1332915
21	Ondo	220725	1128	488039	3407	105110	1737140	1004	1627600
22	Osun	11903	960	537134	13010	22580	515065	880	2861400
23	Akwa Ibom	6809	856	446567	19580	892	915230	1064	2416905
24	Oyo	617	840	9170	15080	1192	685265	976	1697905
25	Plateau	1544	1052	21050	4316	1184	987730	908	2470445

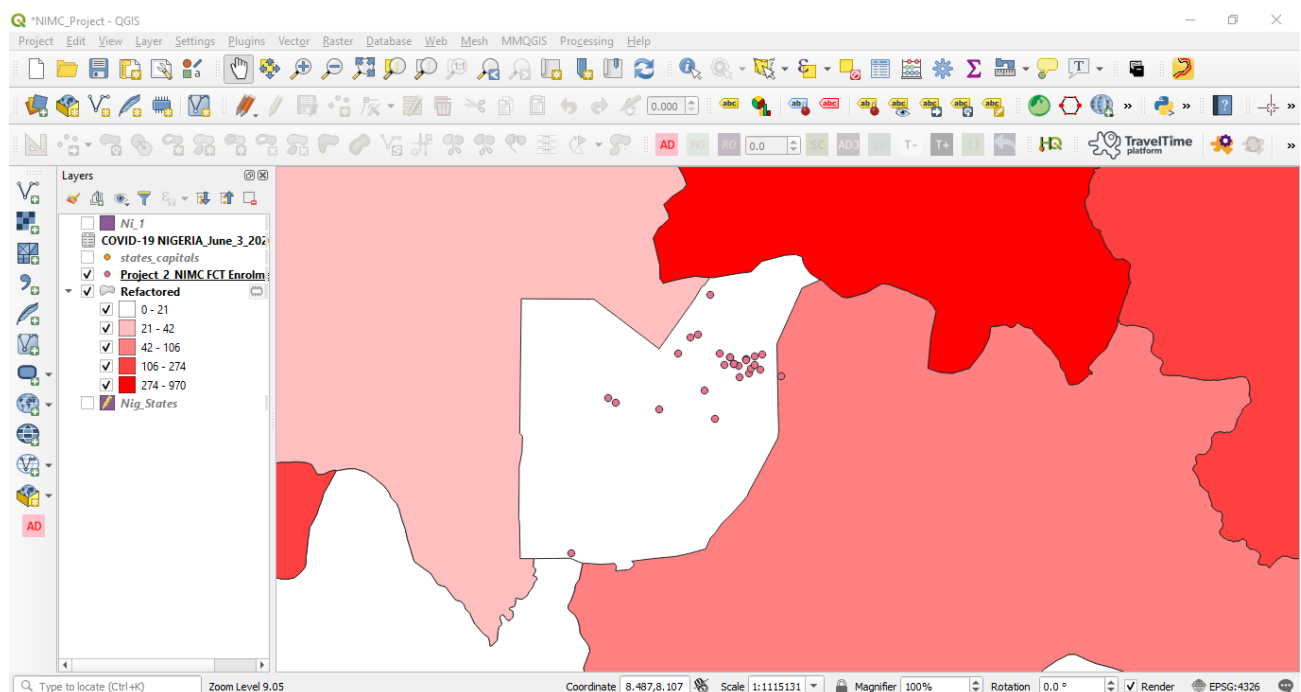


Project2: Geocoding and Reverse Geocoding

NIMC contact offices

Dataset: "Project_2_NIMC FCT Enrolment Centres.csv"

	A	B	C	D
1	Location	Address	Latitude	Longitude
2	State Office	No. 3 Moputo Street, Zone 3	9.0605784	7.4688772
3	Abaji LGA	Abaji Local Government Secretariat (Council Chambers), Off Kogi-A	8.4746755	6.9450688
4	Abuja Electricity Distribution Compa	AEDC Distribution Center, Lugbe Federal Housing Authority (FHA)	8.9836684	7.3614779
5	AMAC LGA	AMAC Secretariat, Kabusa Junction, Apo Village	8.8953032	7.394882
6	Bwari LGA	Bwari Area Council Secretariat, Bwari	9.28206	7.37879
7	Dakwa	Chief's Palace, Dakwa		
8	Dei-Dei International Market	Dei-Dei International Building Materials Market	9.0999388	7.2780994
9	Dutse ERC	Chief Palace, Dutse	11.7023512	9.3340158
10	Faith Academy, Kubwa	Faith Academy School, Kubwa	30.7027574	-88.2445746
11	FCTA High Court	FCT High Court, Maitama	9.0819394	7.4923262
12	Federal Road Safety Commission, Zc	FRSC FCT Command, Zone 7, Wuse	9.0798183	7.4922407
13	Federal Secretariat	Federal Secretariat Phase I, Ground Floor, SGF Hall, Ahmadu Bello V	9.0864444	7.4432892
14	Gwagwalada LGA	Old Federal Secretariat, After Atlas Hotel, Gwagwalada Abuja	8.9446184	7.083086
15	Gwarinpa FHA	Third Avenue By Police Station, Gwarinpa	9.1001562	7.4108304
16	Independent National Electoral Com	INEC Headquarters, Maitama	9.0774326	7.492831
17	Jiwa	Chief's Palace, Jiwa		
18	Karshi	Women Development Center Opposite Secretariat, Karshi		
19	Kuje LGA	Opposite Forest Pasali, along Kuje/Gwagwalada Road	8.9605093	7.0606563
20	Kwali LGA	Kwali Area Council Secretariat, Abuja/Lokoja Expressway, Kwali	9.0948621	7.5432234
21	Mambilla Barracks	Mambilla Barracks, Asokoro	9.0899137	7.5196695
22	Ministry of Agriculture	Ministry Of Foreign Affairs, Ahmadu Bello Way	9.0864444	7.4432892
23	Ministry of Foreign Affairs	Federal Ministry Of Agriculture, Area 11, Garki	9.0361343	7.4997507
24	Mogadishu Cantonment	Mogadishu Barracks, after A.Y.A, along Nyanya-Mararba Road	9.0484146	7.5379733



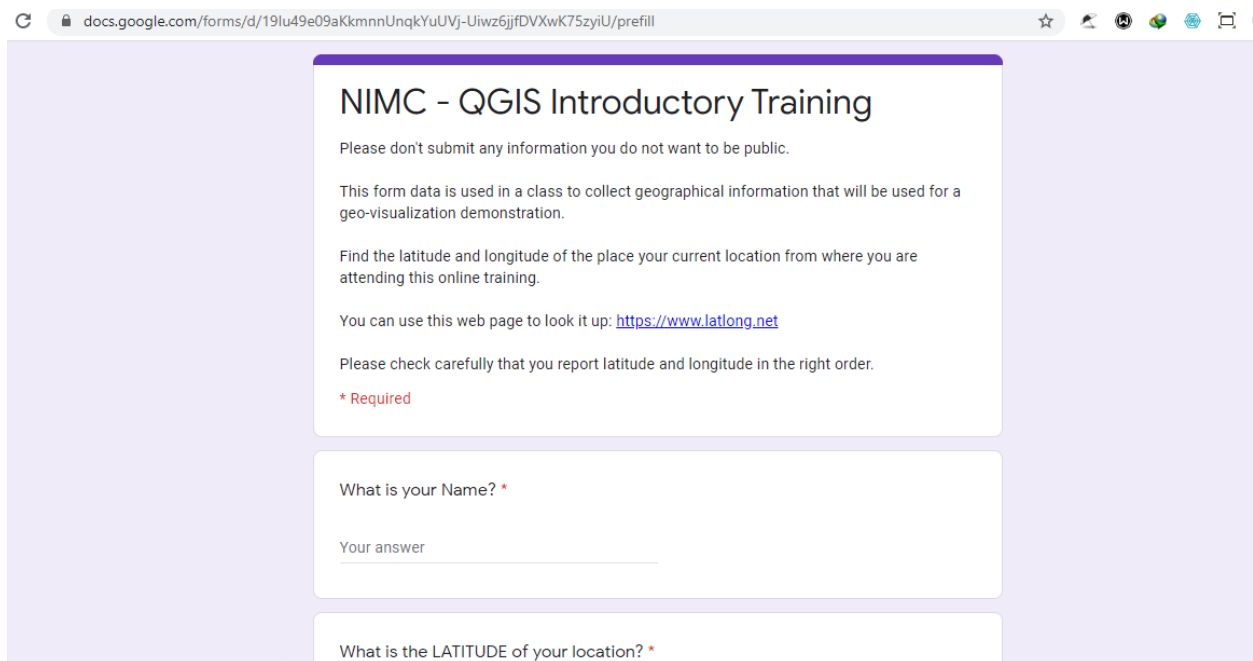
Project3: Hands-on GeoViz

Training Participants

Dataset: "to be collected during training session..."

Google Form:

https://docs.google.com/forms/d/e/1FAIpQLSdA24IGJDJHt2g4EPdmpQXGuFUAA2U3V93iYitimt9Zu88rg/viewform?usp=sf_link



The screenshot shows a Google Form titled "NIMC - QGIS Introductory Training". The form is set against a light purple background. The title is in a large, bold, black font. Below the title, there is a message in a smaller font: "Please don't submit any information you do not want to be public." followed by "This form data is used in a class to collect geographical information that will be used for a geo-visualization demonstration." and "Find the latitude and longitude of the place your current location from where you are attending this online training." A link "https://www.latlong.net" is provided for looking up latitude and longitude. A note says "Please check carefully that you report latitude and longitude in the right order." Below this, there is a red asterisk and the word "Required". The form has two visible question boxes. The first question is "What is your Name? *" with a text input field below it. The second question is "What is the LATITUDE of your location? *" with a text input field below it. The browser's address bar at the top shows the Google Forms URL.

Thank you for your time!