For now, you need a faculty and a degree to find out a simple thing, how many kilometers or meters does a way have.

Using field calculator you will find out using $length the length in arc degrees, or the default CRS

The measure tool allows me to see the results in meters, without having to search half of the Internet for a projections that will fit my specific CRS that I should find for Mexico, only to go and work something in Australia, and then i will need another CRS there, because they will not be compatible.

Why not implement something simple. 2015 style, like

$length_km
$length_nautical_mile
$length_mile

and if i will use the standard length it will be the CRS conversion, but 95% of the time, i don't want the CRS conversion, because what would be the advantage of knowing that the road is 0.000043 Arc meters? I am sure somebody wants to know, but i think the majority of people are using wsg84 but they don't care about arc meters, they want to know if that road is 430 meters, or not.
- Default unit shown in measure dialog

Also adds unit tests to ensure that length and perimeter calculated by attribute table update bar, field calculator and identify tool are consistent wrt ellipsoidal calculations and distance units.

(refs #13209, #12939, #2402, #4857, #4252)

Revision dfdcec89 - 2016-02-15 02:47 AM - Nyall Dawson

Fix project unit confusion (pt 3): add area unit settings with a ton of available area units (eg m2, km2, mi2, ft2, yd2, ha, ac, etc)

Adds a new option in both the QGIS setting and project properties to set the units used for area measurements. Just like the distance setting, this defaults to the units set in QGIS options, but can then be overridden for specific projects.

The setting is respected for area calculations in:
- Attribute table field update bar
- Field calculator calculations
- Identify tool derived length and perimeter values

Also adds unit tests to ensure that area calculated by attribute table update bar, field calculator and identify tool are consistent wrt ellipsoidal calculations and area units.

TODO: make measure tool respect area setting

(refs #13209, #4252 and fixes #12939, #2402, #4857)

History

#1 - 2015-06-11 06:01 AM - Jürgen Fischer
- Subject changed from $lenght calculator CRS thing is too complicated to $length calculator CRS thing is too complicated

#2 - 2015-06-11 06:18 AM - Giovanni Manghi
- OS version deleted (7)
- Operating System deleted (windows)
- Category set to Field calculator
- Tracker changed from Bug report to Feature request

afaik values are computed in layer CRS, once you know is not difficult to keep it in mind. Values are always in map units (meters, feet, degrees), so for instance computing KM is not that hard... $length/1000.

Said that I agree that the field calculator should have functions to compute values in units other that meter/feet more "easily".

#3 - 2015-06-11 06:50 AM - Giovanni Manghi
- Subject changed from $length calculator CRS thing is too complicated to make the field calculator compute areas and lengths in units other than mao
units.

see also #2402 and #10170

#4 - 2015-06-11 06:51 AM - Paolo Cavallini
- Subject changed from make the field calculator compute areas and lengths in units other than mao units. to make the field calculator compute areas and lengths in units other than map units.

#5 - 2015-06-11 07:05 AM - Jürgen Fischer
- Subject changed from make the field calculator compute areas and lengths in units other than map units. to make the field calculator compute areas and lengths in units other than map units.

#6 - 2016-02-14 06:53 PM - Nyall Dawson
- Status changed from Open to Closed

Fixed in changeset commit:"dfdc823d4167850c7ebbb0af1d65c21135f8".