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HafenCity University Hamburg

University Of The Built Environment And Metropolitan Development

Seminar GIT

Topic 2: Story Maps

Study program:

Geodesy and Geoinformatics

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1 Introduction

2 Choropleth maps

3 Basic color information

3.1 Human color perception

3.2 Color spaces

4 Criteria

4.1 Color distance

- RGB cause RGB represents how colors are created on most digital screens. - RGB values do not lead to a specific color if not related to an absolute color space - As a color space sRGB is selected, since sRGB color space is supported by most digital screens. Other color spaces such as Adobe RGB are not fully supported by most digital screens. When publishing a digital map creators should choose colors which can be displayed by most screens, therefore sRGB is the color space to choose.

4.1.1 Equation

- transforming sRGB Colors to CIE XYZ Colors. - What are CIE XYZ Colors - For the transformation the sRGB values have to be in the range 0.0 - 1.0, therefore the most values have to be divided by 255 to normalize them.

4.2 Number of classes

4.3 Further aspects

4.3.1 Spatial distance

4.3.2 Brightness of colors

5 Examples

6 Conclusion