How Reliable Are Your Visual Attributes?

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**Attribute Reliability Studies**

Visual attributes are a powerful approach for recognition, retrieval, image description and scene understanding. For example:

- **Binary:** black/white stripes
- **Has:** Helmet, Cloth
- **White:** yes; Brown: no
- **Stripes:** no; Water: yes
- **More white than Alex Rodriguez**

**How do you determine the useable conditions of an attribute classifier?**

**Attribute:** Pointy Nose

1. **Scale:**
2. **Blur:**
3. **JPEG Quality:**

**Four Steps for an Attribute Reliability Study**

1. **Decision Scores**
   - 10.3, -9.5, 11.1
   - 5.1, -1.5, 0.1
   - -0.1, -0.2, -0.9
2. **Apply Image Transforms**
3. **Generate w-scores**
4. **Plot the Results**

**Software & References**

- The Meta-Recognition Library: [http://www.metarecognition.com](http://www.metarecognition.com)