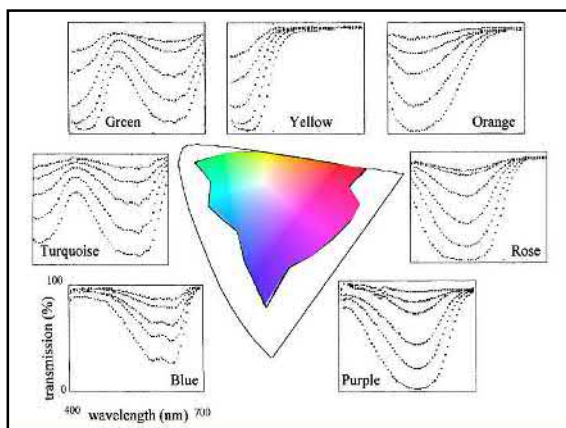




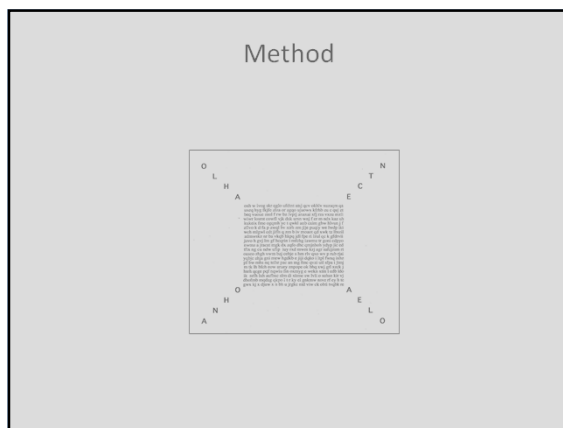
1



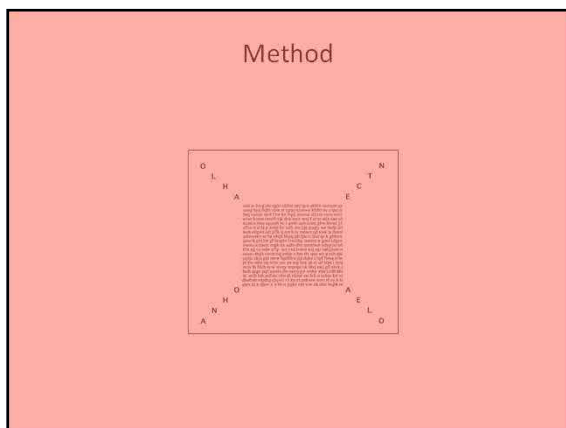
2



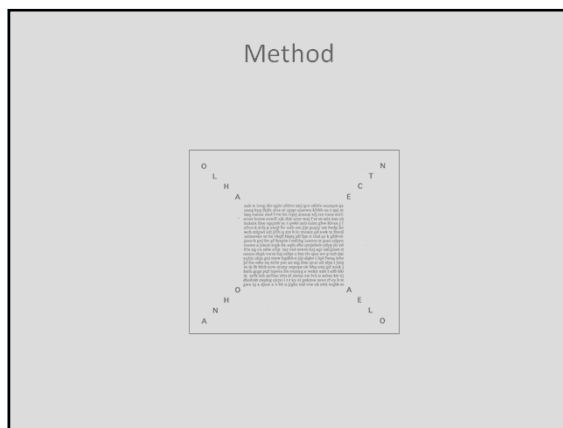
3



4



5



6

SPD

- Same spectral power as when lenses are worn under typical lighting

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Procedure

1. Find best hues
2. Optimize hue/saturation

Compare 12 hues with white Allow adaptation to colour

8

Optimise saturation at best hues

Examiner or patient adjusts saturation "as if tuning a radio" to get best perception of text.

In this example, best hues are 150° and 240°

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compare neighbouring hues

For example, at 240°:

"This is number 1;
"Close your eyes"
Decrease hue by 20° to 220°
"Open your eyes;
"This is number 2;
"Which is better, 1 or 2?"

Similarly for an increase in hue by 20° to 260°

Blue sat	Blue sat
<input checked="" type="checkbox"/> 240° 55	<input type="checkbox"/> 220° 55
<input checked="" type="checkbox"/> 240° 55	<input checked="" type="checkbox"/> 260° 55
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

10

Iterative procedure

Shortlist the settings and search for a consistent optimum

```

    graph TD
      A[Re-optimize hue at revised saturation] --> B[Re-optimize saturation at revised hue]
      B --> A
  
```

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Minimise saturation

At the best setting ask the patient to reduce the saturation as much as possible without reducing the benefit.


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Attenuator test - purpose

The attenuators do NOT indicate the need for grey tints.

They indicate:

- whether there is residual glare;
- whether the tinted glasses will be too dark.



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Attenuator test - procedure


At best hue and saturation -

"Is it better when it is dark like this?"

Pull out 50% attenuator

"...or light like this?"

Push in 50% attenuator



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Residual glare

Preference for 50% attenuator may indicate residual glare -

Check by increasing saturation slightly, and repeating attenuator test. If patient no longer prefers 50% attenuator keep the stronger saturation.

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Darkness of lenses

Strong colours usually come in dark lenses.

Preference for no attenuator may indicate intolerance for dark lenses.

Will lenses of the chosen colour be dark? ...

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