AN IDLE PROTOCOL STACK ANALOGY

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end2end mailing list

AS TOLD BY
HILARIE ORMANN
Pathway, road, band
Goddess of the Rainbow

Aristotle - 3 Colors
Philosophy of Linear Combinations
Golden Mean
Norse Mythology - Tri-colored bridge to Asgard
Networks classical period
Application data/link physical
MIDDLE AGES

FOURTH COLOR — OCCASIONALLY MENTIONED BY ARISTOTLE

PHILOSOPHICALLY ~ EARTH, FIRE, WATER, AIR

NETWORK: APPLICATION
TRANSPORT
LINK
PHYSICAL

"NATURAL" PERCEPTION

FIVE COLORS — (RED ORANGE YELLOW GREEN BLUE)

APPLICATION
TRANSPORT
NETWORK
LINK
PHYSICAL

(REDDEN YELLOW ORANGE GREEN BLUE PURPLE)
THE SOPHISTRY OF SEVEN

ISAAC NEWTON EXPOUNDED ON SEVEN COLORS TO THE ROYAL SOCIETY IN 1672 RED ORANGE YELLOW GREEN BLUE INDIGO VIOLET

RICHARD OF YORK GAVE BATTLE IN VAIN

PLANETS, HUMORS, TEMPERMENTS, RENAISSANCE ARTISTS, ANIMALS, PLANTS, METALS, MUSICAL SCALE
<table>
<thead>
<tr>
<th>OSI Layer</th>
<th>Description</th>
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<tbody>
<tr>
<td>Application</td>
<td>Two All Beef Patties</td>
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<tr>
<td>Presentation</td>
<td>Special Sauce</td>
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<tr>
<td>Session</td>
<td>Lettuce</td>
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<tr>
<td>Transport</td>
<td>Cheese</td>
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<tr>
<td>Network</td>
<td>Pickles</td>
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<tr>
<td>Link</td>
<td>Onions</td>
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<tr>
<td>Physical</td>
<td>On A Sesame Seed Bun</td>
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COUNTERPOINT TO THE IDLE PROTOCOL STACK ANALOGY

HILARIE ORMAN
COLORIST

RAINBOW → SPECTRUM
"Pink" is an 18th century word.

"Papaya Whip" was an X11 RGB development.

"Natural" # of colors — 8, 16, 256, 65536, 24M, "true"!

Color is a 3D vector space projected onto a 3D non-linear biological space.
COLOR PERCEPTION

Don't confuse color with color names.

Most anyone can see the full visual spectrum.

Names result from clustering (5±2 law) and language.

Number of color names tracks the sophistication of a culture.
Protocol layers are an impediment to understanding networks.

Prevent perception of functional interactions.

Make efficient implementations look dis-architectural.

Micro, nano, pico protocols.
PROTOCOLS ARE A CONTINUUM PROJECTED ONTO AN ARCHITECTURAL 1D SPACE

TCP
BYTE SEQ
CONNECTION
RELIABLE
FLOW CONTROL
CONGESTION AVOID
FAIRNESS SEEKING

OLIVE
SPRING GREEN
FOREST GREEN
GREEN
TEAL
HUNTER
PINE
SOPHISTICATED NETWORK CULTURE CAN NAME ALL FUNCTIONAL COMPONENTS

THROUGH A GLASS DARKLY

& MAP TO ALTERNATE SPACES

APPL RELIABILITY ROUTING

XML

NETWORK CONTROL

LINK LAYER RELIABILITY

PHYSICAL