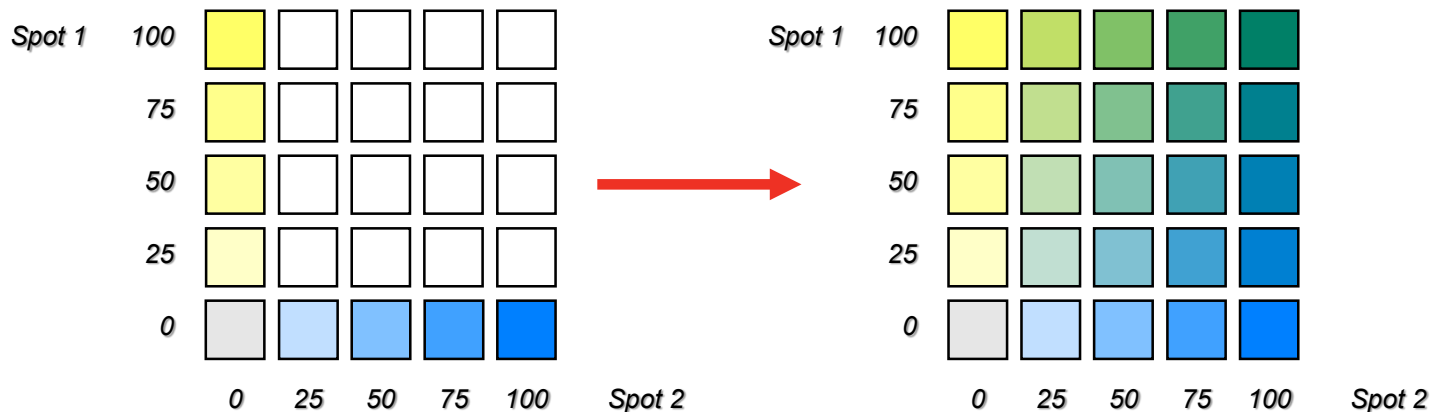




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- Use case 1: Spot color overprint prediction
 - Spot color model based on
 - Step wedge
 - Definition dot gain and solid densities
 - Spectral data
 - Substrate and ink-ink interaction from press profile
 - Print order

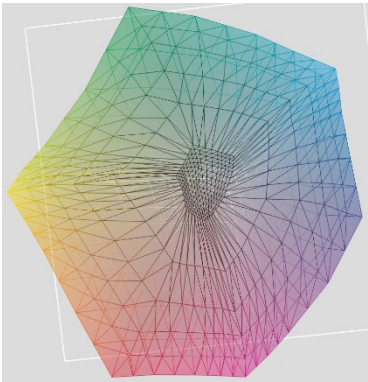


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- Use case 1: Spot color overprint prediction (cont'd)
 - Current workflow based on Apogee 11 and Apogee Color
 - CxF/X-4 data spots stored in named color profiles (private tag)
 - Only CxF/X-4 data step wedge on white used
 - Press profile: Fogra51
 - Substrate from named color profile (i.e. from CxF/X-4 data set)
 - ⇒ Reasonable results

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- Use case 3: CMYKOGV characterization and separation



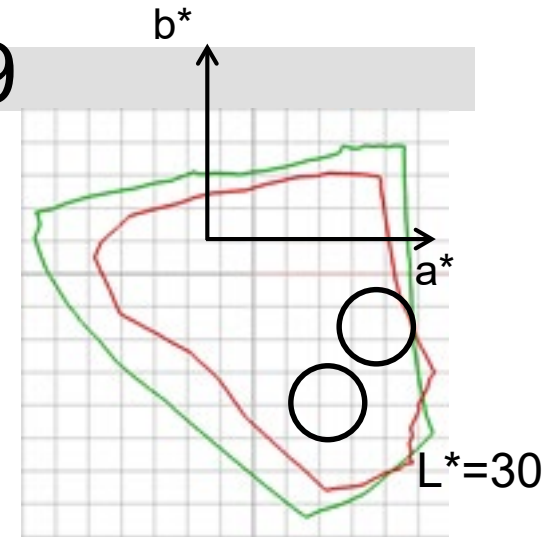
- 7-ink profile: Trade off between size and accuracy
- Agfa Advanced CMM key to enhance accuracy
 - Increases accuracy forward model
 - Improves smoothness separations
- Out-gamut mapping: Relative colorimetric with BPC



⇒ Multicolor CMYKOGV profile

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— Proofer
— CMYKOGV



- Use case 4: Proofing

- Set-up

- Apogee 11 and Apogee Color
 - Epson P7000 with ink set CMYKOG (CMYKOGV not available)
 - Errors due to small gamut mismatches of proofing system
 - Mainly for primaries and secondaries

- Proof evaluation based on ISO 12647/8

- Proof evaluation wedge selectable by customers
 - E.g. Fogra MediaWedge v3 or Fogra 7C MediaWedge

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- Use case 6: Ink replacement
 - Current workflow applied to replace violet by reflex blue
 - CxF/X-4 data reflex blue converted into named color profile
 - CxF/X-4 data: step wedge reflex blue on (white) substrate
 - Press profile: Multicolor CMYKOGV profile
 - Data from multicolor CMYKOGV profile
 - Substrate and ink-ink interactions
 - Common ink subspaces
 - ⇒ Multicolor CMYKOGB profile
 - Remark:
 - Data Fogra multicolor forum 2018 not used!

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- **Use case 8: Inking variation**
 - Current workflow applied to change solid density of OGB inks
 - CxF/X-4 data O, G and B inks converted into named color profile
 - CxF/X-4 data: solids O, G and B inks on (white) substrate
 - Press profile: Multicolor CMYKOGB profile
 - Data from multicolor CMYKOGB profile
 - Substrate, dot gain and ink-ink interactions
 - Common ink subspaces
 - Remark:
 - Data Fogra multicolor forum 2018 not used!

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- **What did we learn?**

- Most vendors produce similar results, all usable in practice
- Communication order ink naming, ink values and ink printing define

- Improv

- Cx

- Use



- Darkest point is critical and difficult to predict in general