

# Računalstvo - DOD

## 2. Grafičke mogućnosti računala

### 2.1. Meni Adjustments (Podešavanja)

-služi za podešavanja **svojstva boja** na slikama

-čine ga naredbe:

➤ **AutoLevel**

-**automatski** se podese **sve postavke** slike (najčešće slika **nije** korigirana na željeni način)

➤ **Black and White**

-slika se pretvara u **crno-bijelu**

➤ **Brightness / Contrast**

-podešava se **svjetlina i kontrast**

➤ **Curves** (hrv. Krivulje)

-podešava se **intenzitet svjetla** (engl. *luminosity*) ili **zastupljenost pojedinih boja** (pomoću **kanala boja**) na dijelovima slike (RGB)

-na **krivuljama** (intenziteta ili **R, G i B** kanala) se **lijevim** klikom **dodaje upravljačka točka**, a **desnim briše**

➤ **Hue / Saturation**

-time se bira **prevladavajuća nijansa** (engl. *hue*), **reflektivnost** (engl. *lightness*) i **zasićenje** boja (**udio bijele boje** u slici, engl. *saturation*)

➤ **Invert Colors**

-dobiva se **negativ** slike (**svakom pikselu** se od **maksimalnog udjela** pojedine boje, obično je to **255**, **oduzima trenutni udio** boje (od 0 do 255))

➤ **Levels**

-tu se **grafom** (histogramom) **podešava preslikavanje udjela pojedinih boja** (po kanalima) iz početne u krajnju sliku

➤ **Posterize**

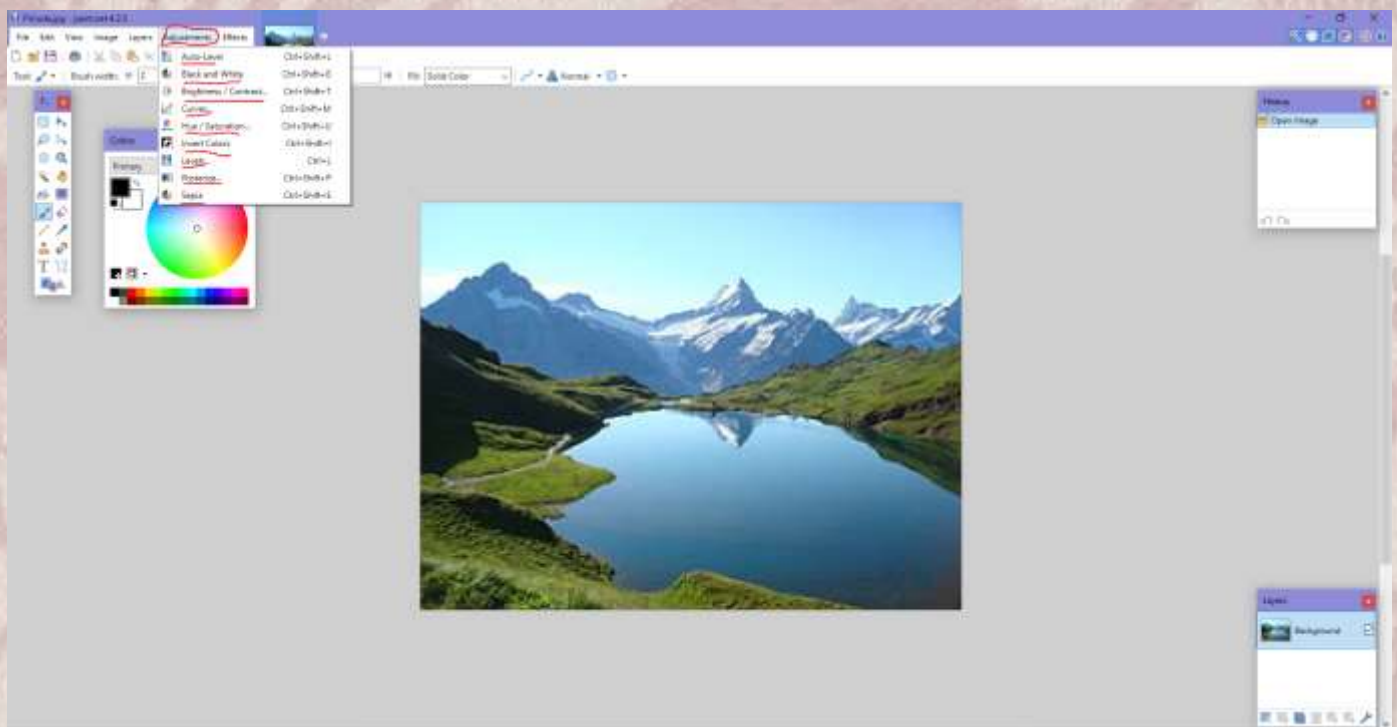
-ovime se  **smanjuje ili povećava broj nijansi** pojedinih **osnovnih** boja (možemo ih mijenjati **istodobno** (opcija **Linked** aktivna) ili  **zasebno R, G i B** kanale)

➤ **Sepia**

-time se slika želi **umjetno postarati** naglašavanjem **žute i crvene boje** (kao **požutjele stare** fotografije)

## 2.1.1. Primjeri podešavanja pojedinih postavki

- **naredbe** u meniju **Adjustments**



-**početna** slika za sve primjere



-naredba **AutoLevel**

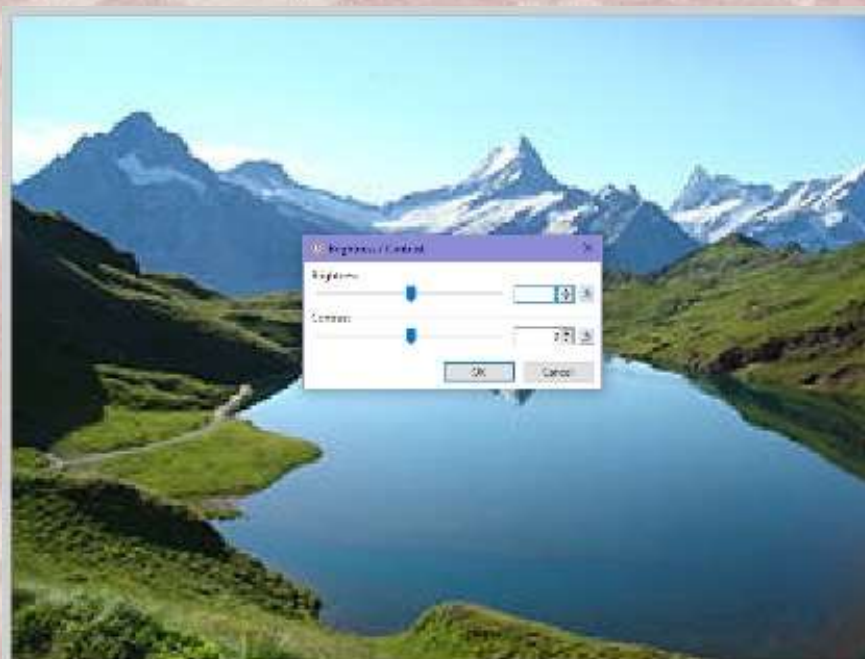


-naredba **Black and White**

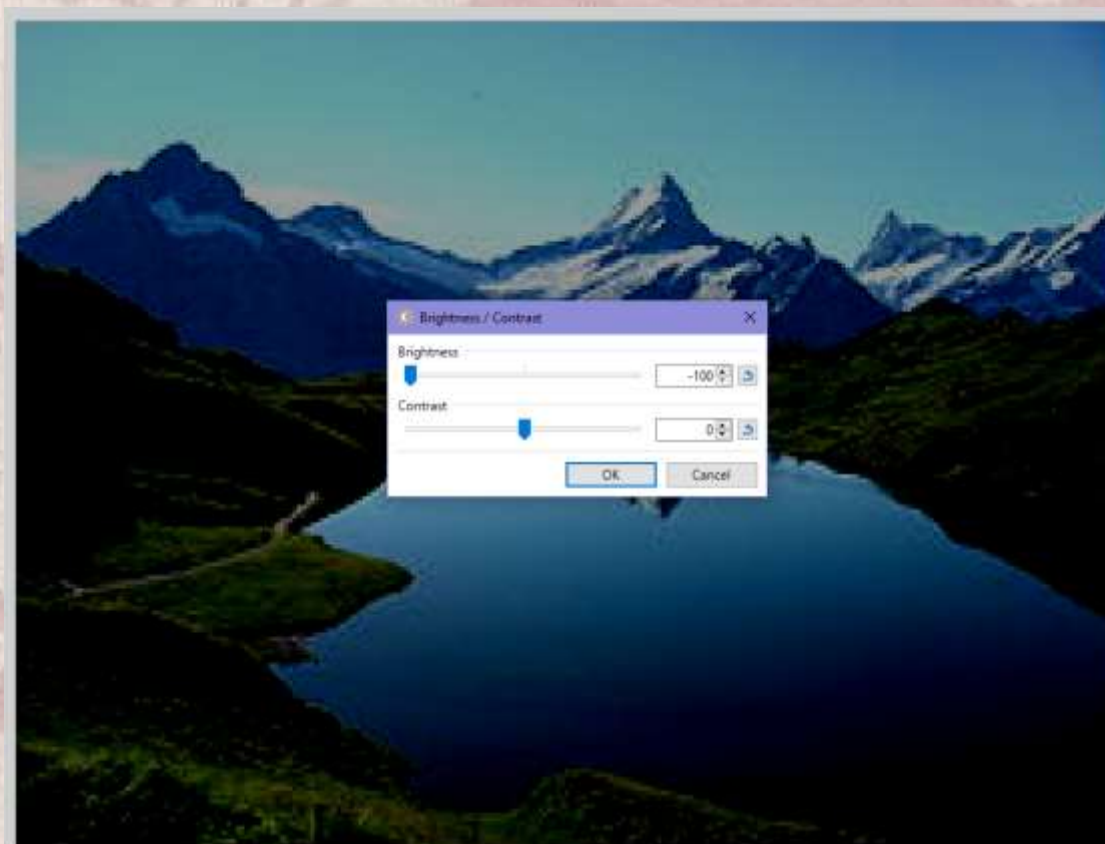


-naredba **Brightness / Contrast**

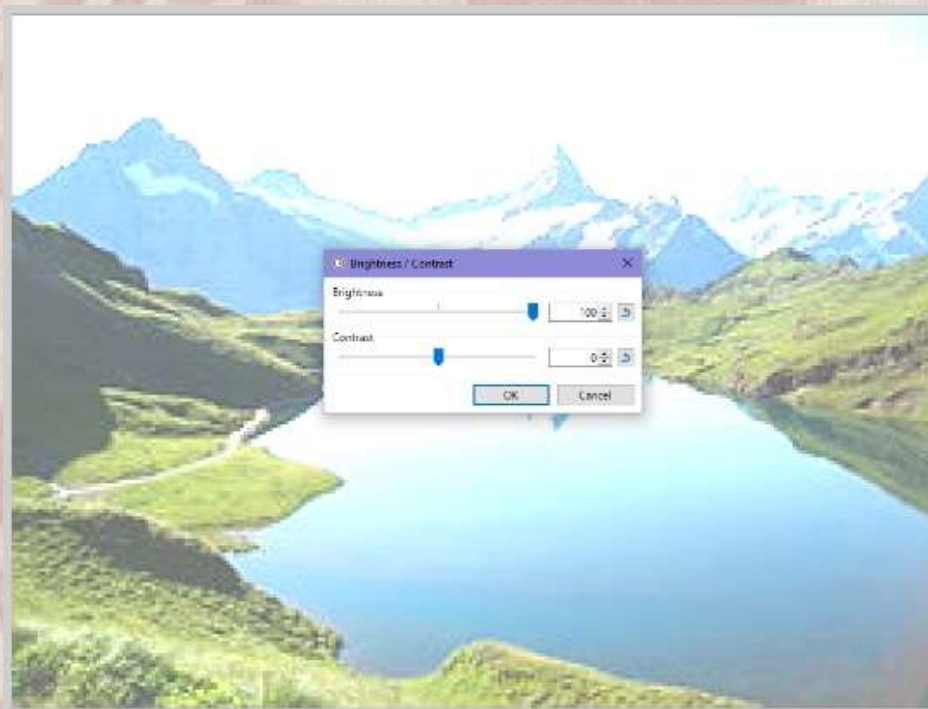
- početne postavke



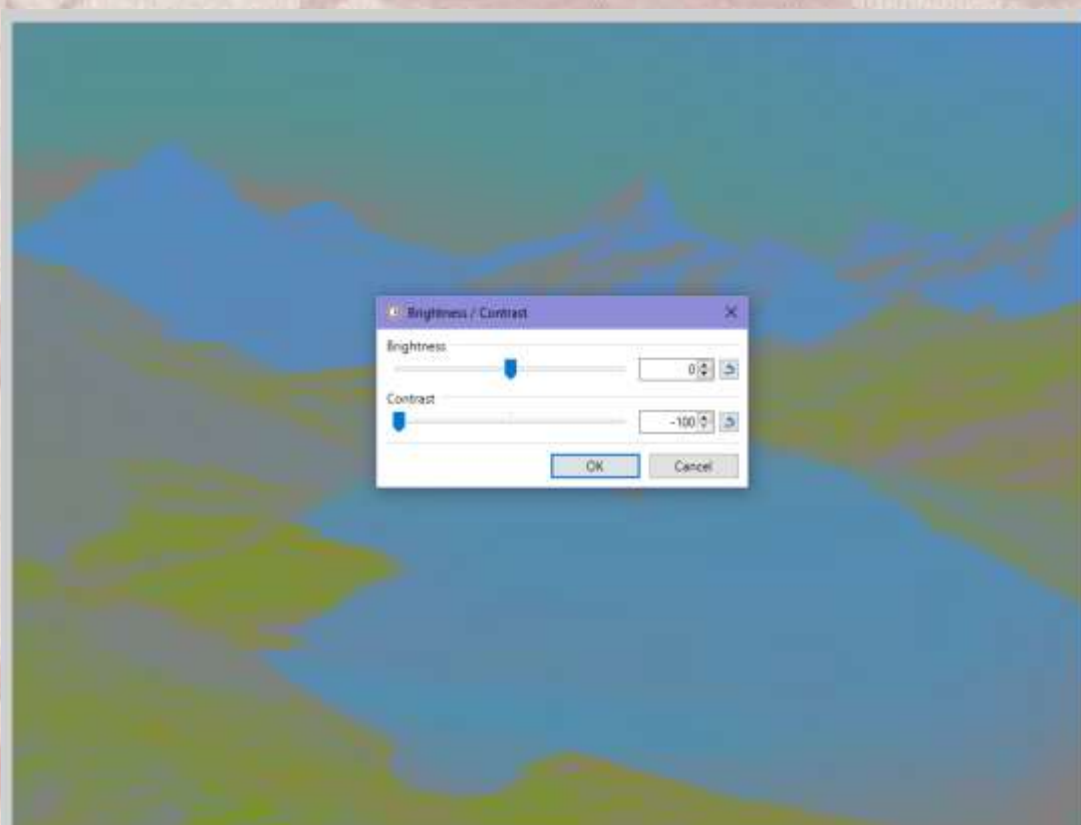
- minimalna svjetlina



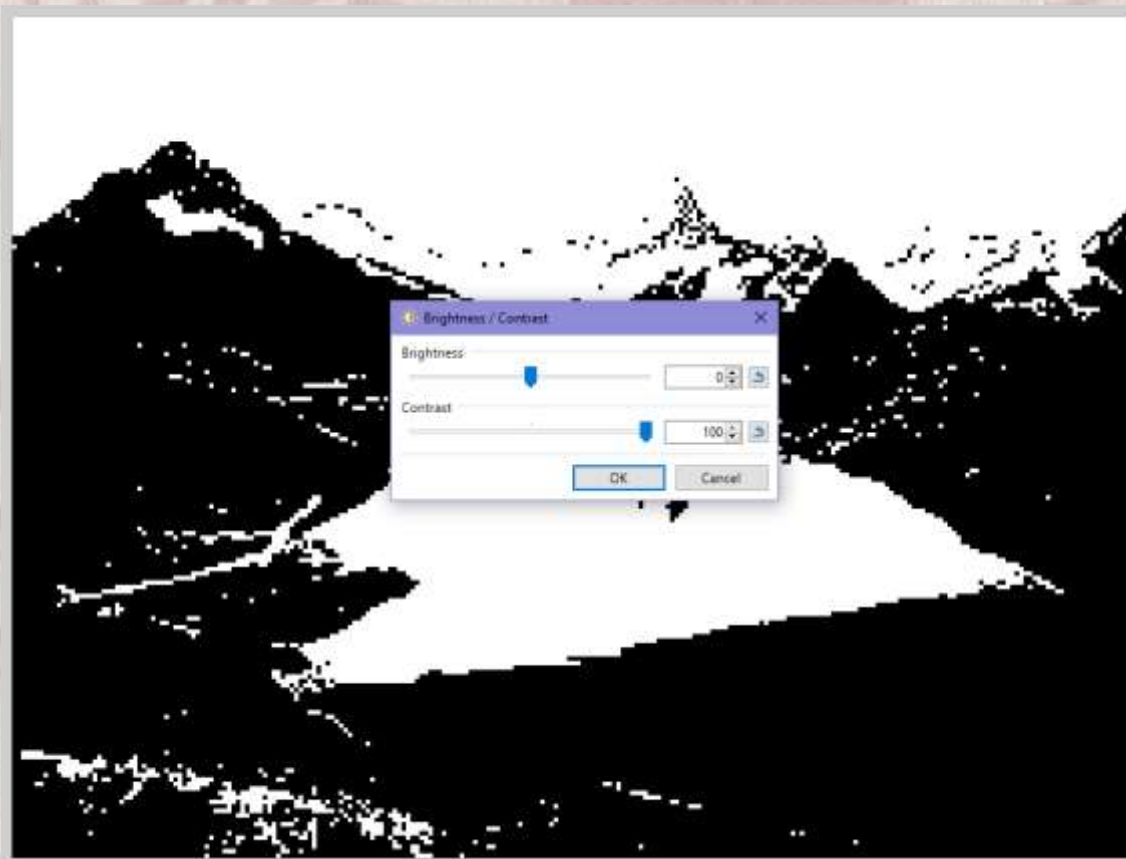
➤ maksimalna svjetlina



➤ minimalni kontrast

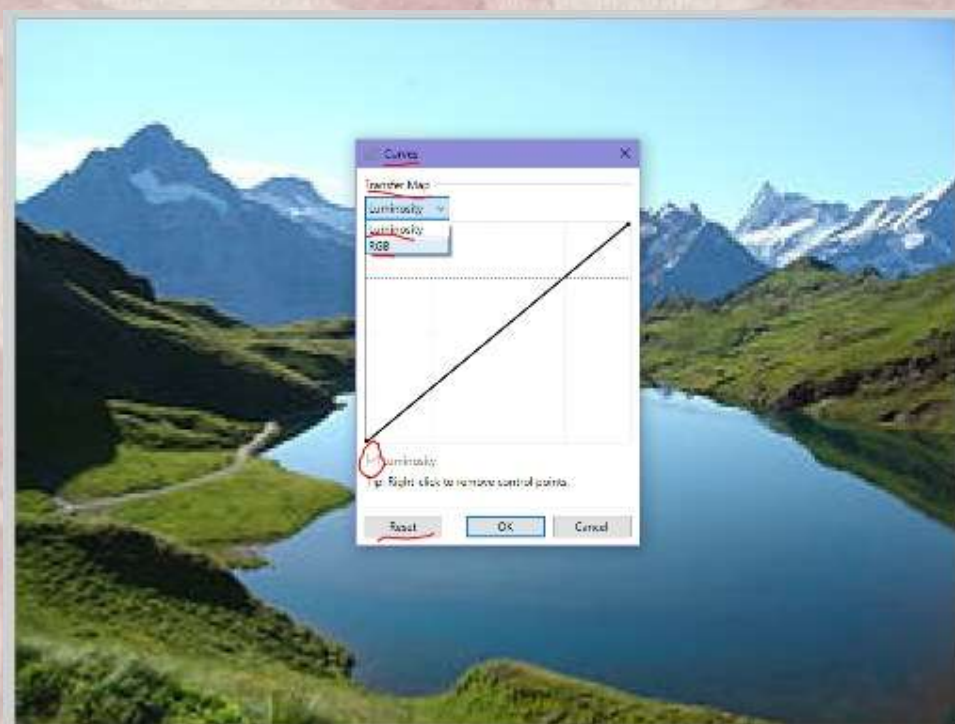


➤ maksimalni kontrast

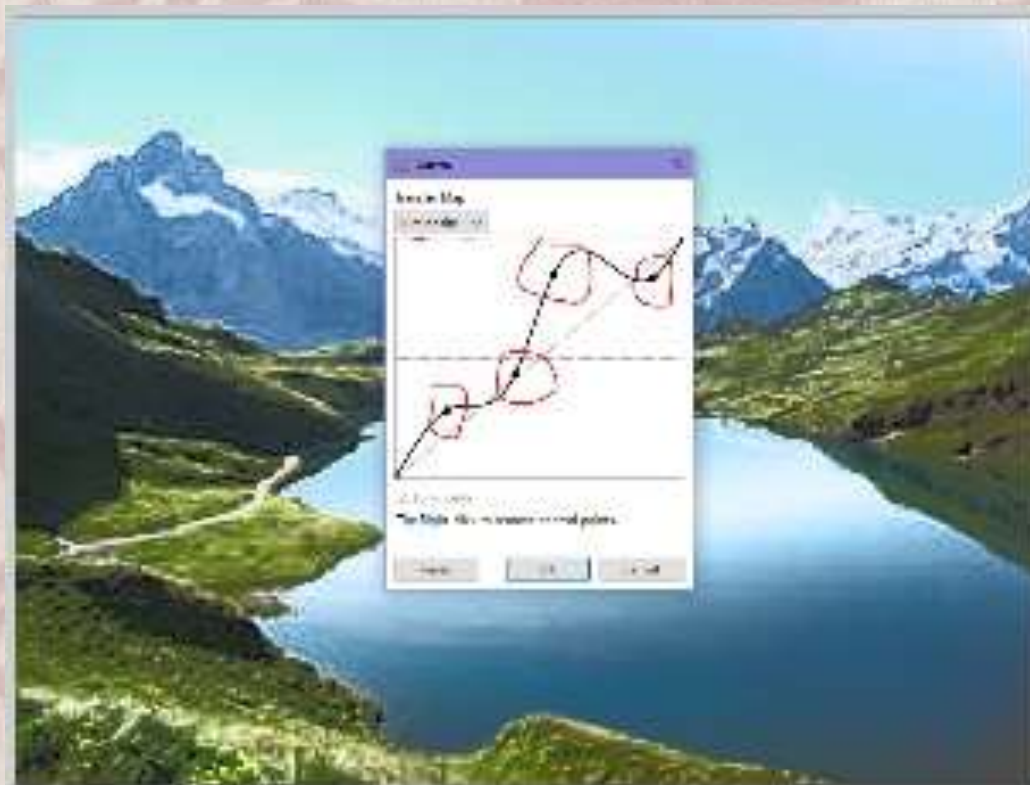


-naredba **Curves**

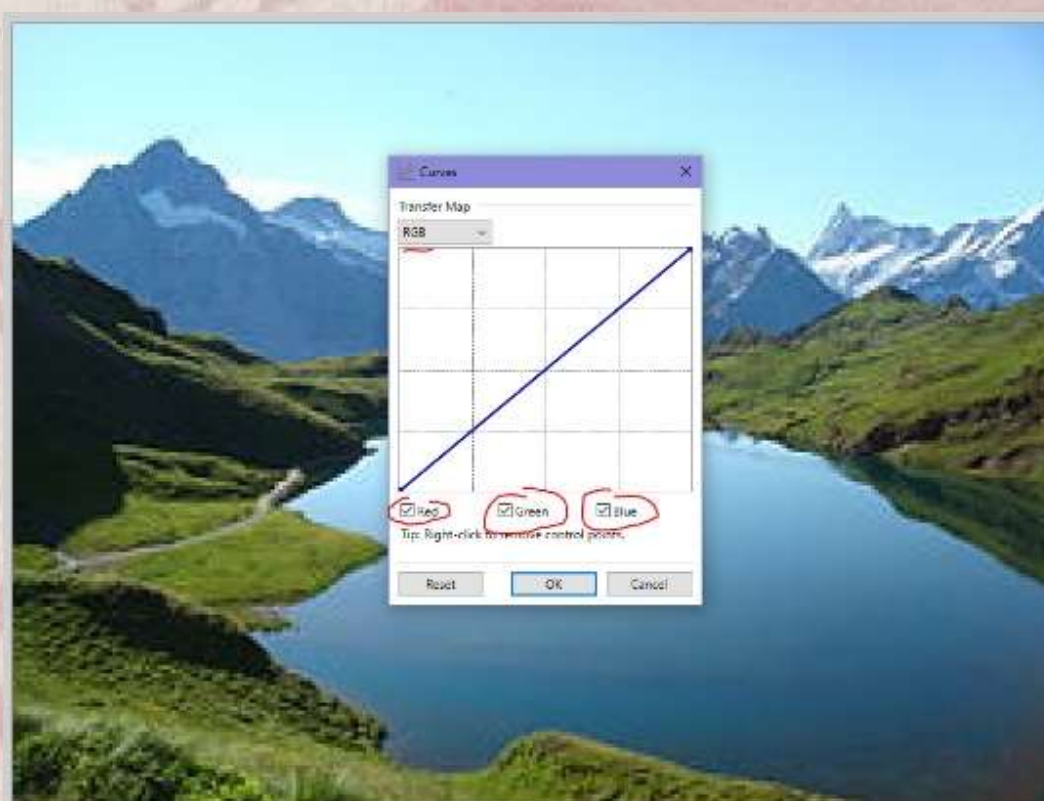
➤ početne postavke



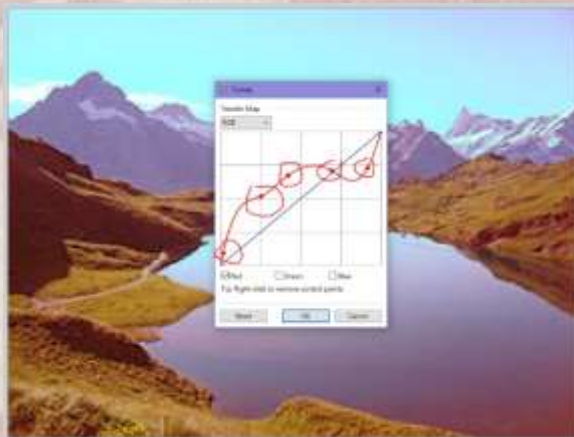
- promjene **krivulje intenziteta svjetla**



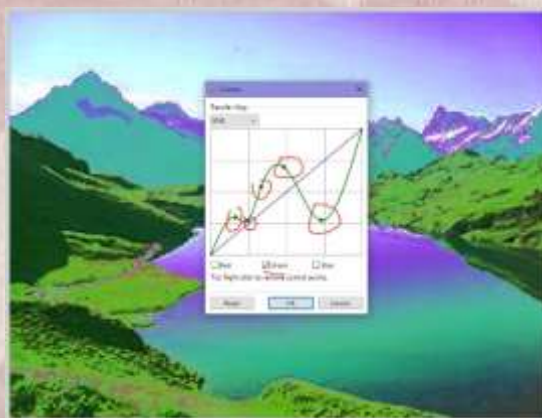
- promjene **krivulje boja (RGB) – početni kanali boja**



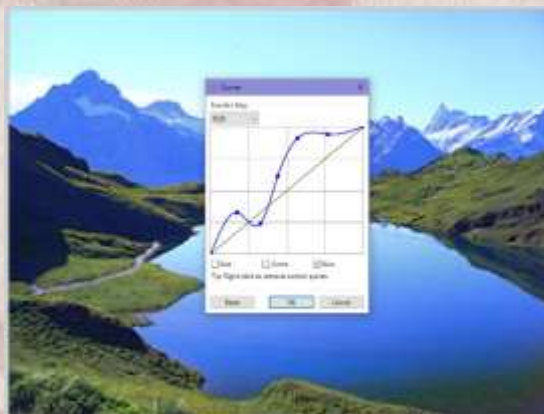
- promjena **R** kanala



- -promjena **G** kanala



- -promjena **B** kanala

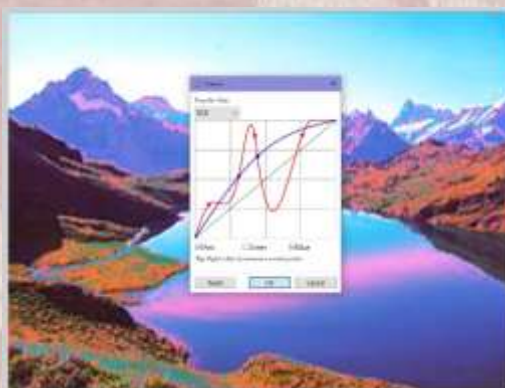




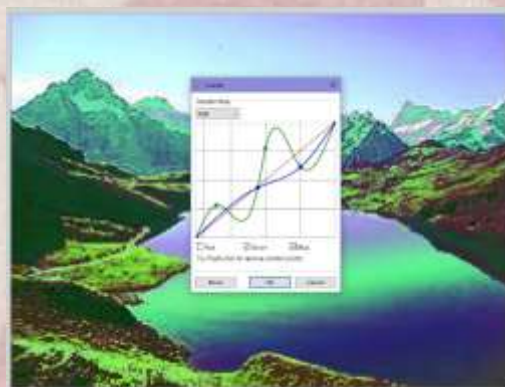
- -promjene na **R** i **G** kanalu



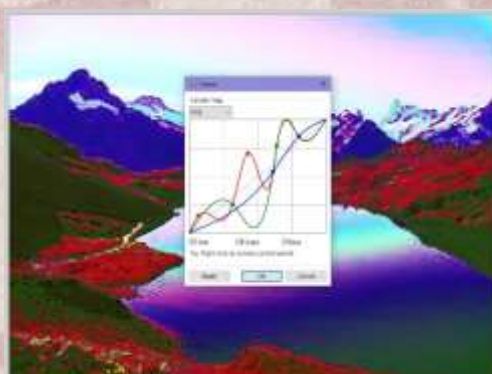
- -promjene na **R** i **B** kanalu



- -promjene na **G** i **B** kanalu



- -promjene na **svim** kanalima (**R, G, B**)

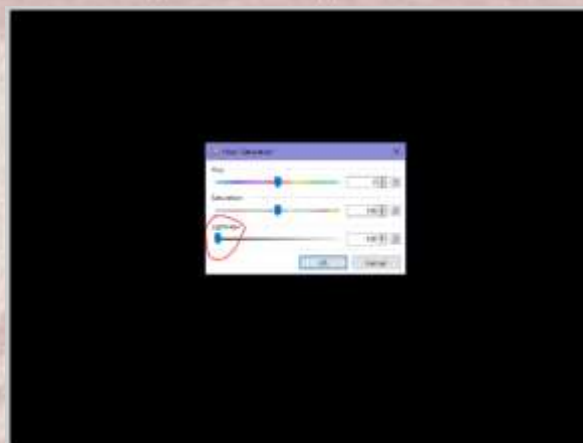


-naredba **Hue / Saturation**

➤ početne postavke



➤ minimalna svjetlina



➤ maksimalna svjetlina



- **minimalno** zasićenje



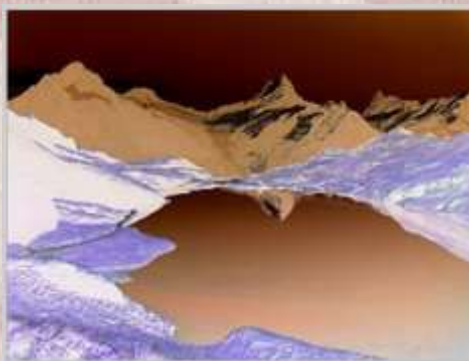
- **maksimalno** zasićenje



- različite naglašene nijanse (Hue)

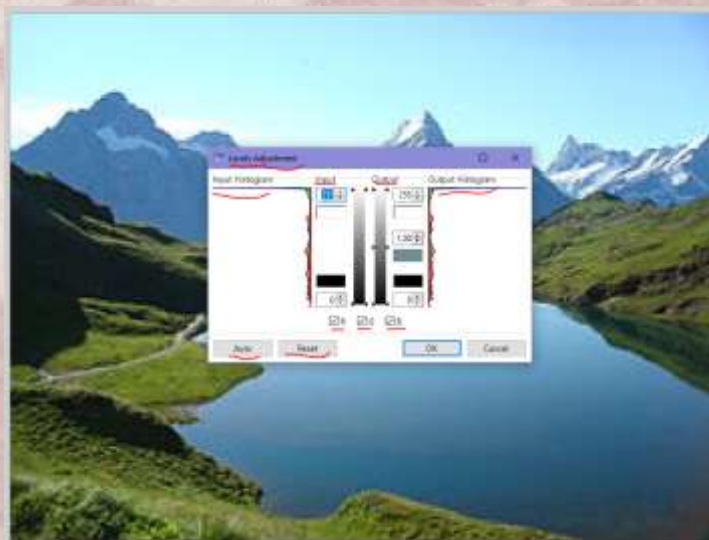


- naredba **Invert Colors**

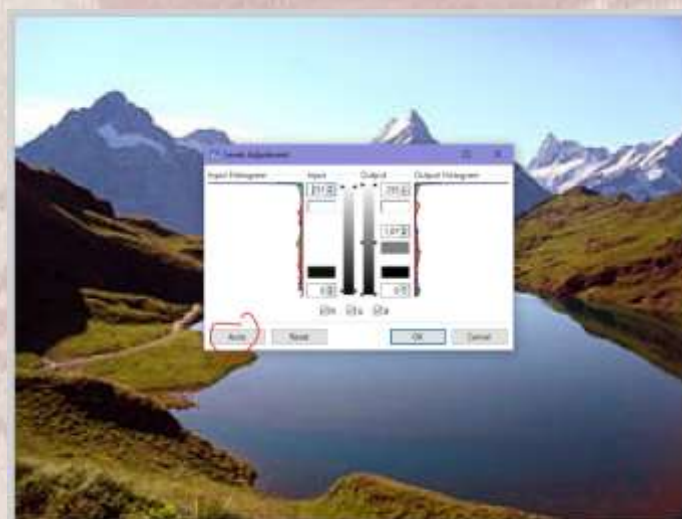


-naredba **Levels**

- **početne** postavke



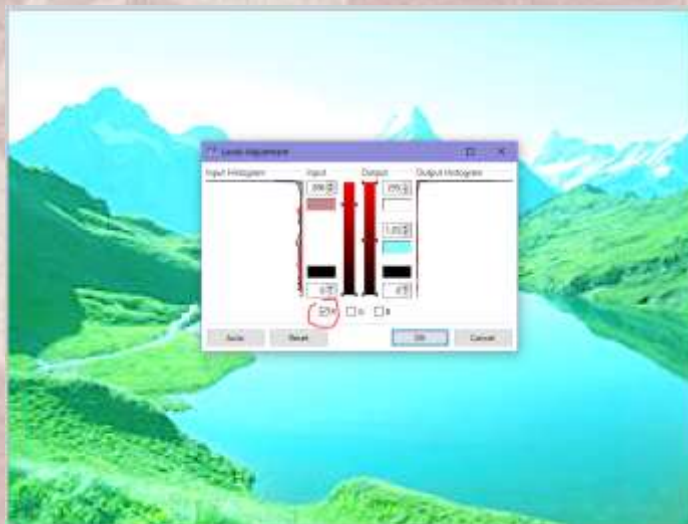
- **avtomatske** postavke



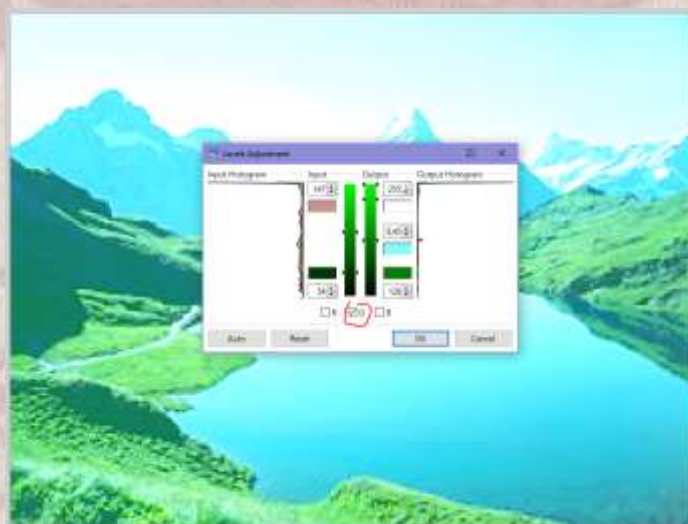
- **podešavanje svih kanala**



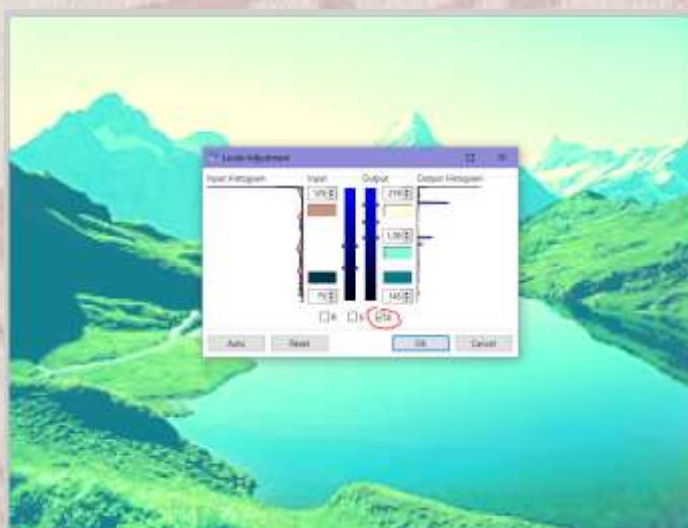
- podešavanje **R** kanala



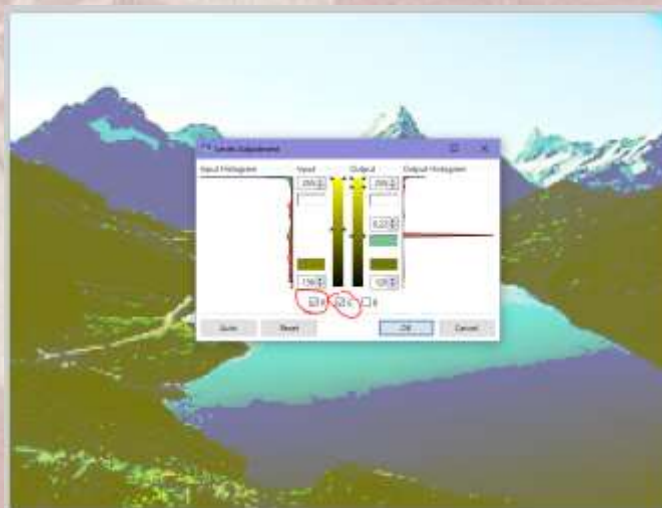
- podešavanje **G** kanala



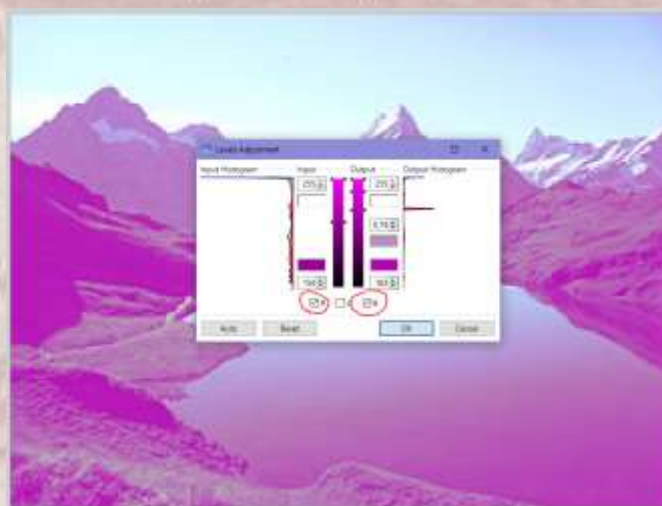
- podešavanje **B** kanala



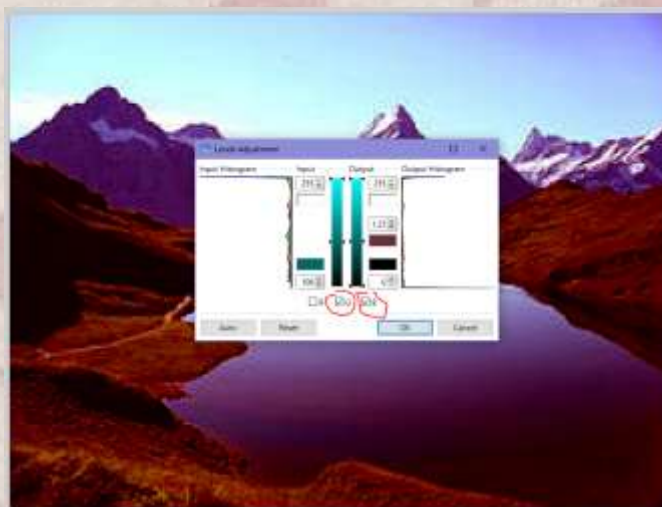
- podešavanje **R** i **G** kanala



- podešavanje **R** i **B** kanala



- -podešavanje **G** i **B** kanala

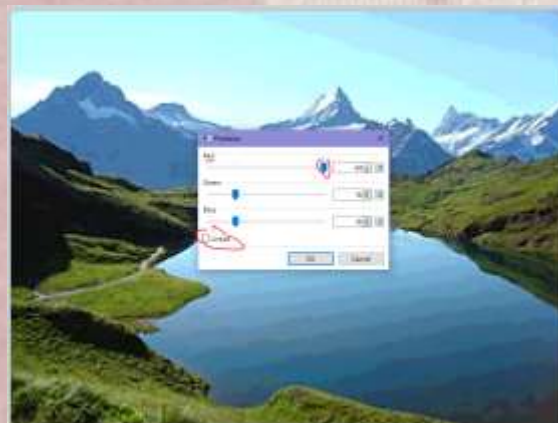
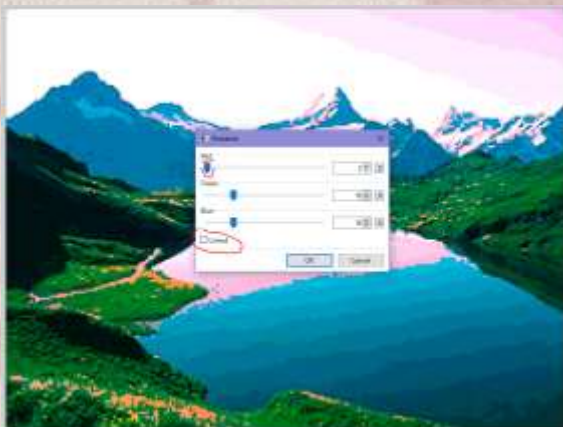


-naredba **Posterize**

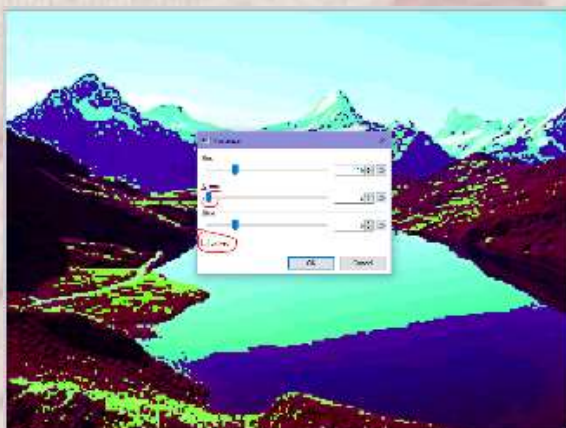
- početne postavke



- uključen **samo R kanal** (minimalna i maksimalna postavka)



- uključen **samo G kanal** (minimalna i maksimalna postavka)



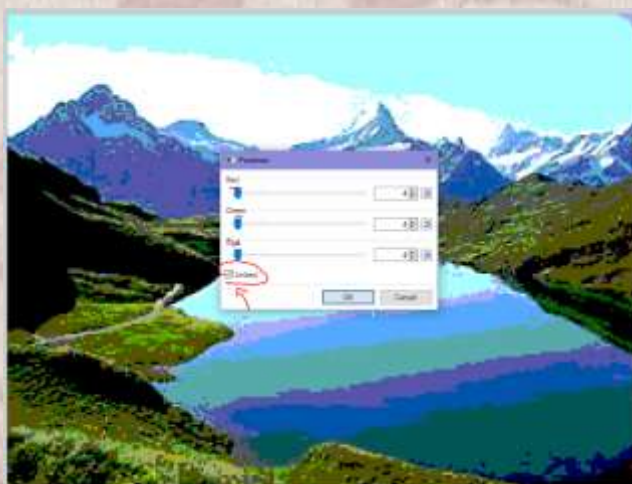
- uključen **samo B kanal** (minimalna i maksimalna postavka)



- **nezavisna promjena svih kanala**



- **istodobna promjena svih kanala**





-naredba **Sepia**



