Open-source frameworks For YouTube ad campaign:

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1. Google Ads API and Google Ads Scripts:

   - Google provides API access for Google Ads, which includes YouTube ad campaigns. While not fully open-source, it provides programmatic access to campaign management, reporting, and automation. Google Ads Scripts allow for scripting and automation of tasks within Google Ads.

2. YouTube Data API:

   - YouTube Data API allows you to access YouTube's data, which can be useful for extracting information about videos, channels, and user interactions. While it's not a campaign management tool, it can help with data retrieval.

3. Data Analytics and Reporting Tools:

   - Tools like Google Data Studio, an open-source BI tool, can be used to create custom dashboards and reports for analyzing campaign performance data.

4. A/B Testing Frameworks:

   - If you want to conduct A/B testing of different ad variations, open-source A/B testing frameworks like Google Optimize can be used to compare the effectiveness of different creatives.

5. Content Creation Tools:

   - Open-source video editing and graphic design software like Blender (for 3D animation) and GIMP (for image editing) can be used to create ad content.

6. Automation Tools:

   - Open-source automation frameworks like Selenium can help automate certain tasks related to campaign management and data retrieval.

7. Security and Compliance Tools:

   - Tools for data security and compliance may not be open-source but are essential for managing user data and ensuring regulatory compliance.