Parental controls in GNOME

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Motivation

- User feedback
- Growth of flathub
What do parental controls do?

Figure: The Parental Controls app
What supports parental controls?

- gnome-shell
- flatpak
- gnome-software
- gnome-control-center
- gnome-initial-setup
Initial setup

Figure: Choosing to enable parental controls in gnome-initial-setup
Initial setup

Figure: Setting initial parent controls for a non-admin user in gnome-initial-setup
Initial setup

**Figure:** Setting a parent password in gnome-initial-setup

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Parental controls in GNOME
What’s the uptake?

**Figure**: Uptake of parental controls since EOS 3.8 was released
How do parental controls work?

![Parental controls architecture (restricting installation)](image)

**Figure:** Parental controls architecture (restricting installation)
How do parental controls work?

Figure: Parental controls architecture (restricting installed apps)
How can I integrate my app with parental controls?

Add OARS data to your appstream:
https://hughsie.github.io/oars/
How can I integrate my app with parental controls?

<content_rating type="oars-1.1">
  <content_attribute id="violence-cartoon">moderate</content_attribute>
  <content_attribute id="violence-fantasy">moderate</content_attribute>
  <content_attribute id="social-chat">intense</content_attribute>
  <content_attribute id="social-info">intense</content_attribute>
  <content_attribute id="social-audio">none</content_attribute>
  <content_attribute id="social-location">none</content_attribute>
  <content_attribute id="social-contacts">none</content_attribute>
  <content_attribute id="money-purchasing">intense</content_attribute>
  <content_attribute id="money-gambling">none</content_attribute>
</content_rating>
How can I integrate my app with parental controls?

Use libmalcontent to implement internal filtering

Example code: https://gitlab.freedesktop.org/pwithnall/malcontent/-/tree/master/malcontent-client
How can I enable parental controls in my distro?

Compile everything with libmalcontent support

Ensure all your apps have OARS metadata, and gnome-software can access it
What about the future?

- Digital wellbeing
- Screen time
- Time limited sessions
Screen time mockups

Figure: Screen time mockup (Allan Day)
Miscellany

Slide source  https://gitlab.com/pwithnall/
guadec-parental-controls-presentation-2020
malcontent project  https://gitlab.freedesktop.org/pwithnall/malcontent

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Beamer theme: https://gitlab.gnome.org/GNOME/presentation-templates/tree/master/GUADEC/2020