

Cognitive process:

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5. **Summarize** to get mean life exp & GDP

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The old way:

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summarize(  
  group_by(  
    filter(  
      mutate(gm, gdp=gdpPercap*pop),  
      continent=="Asia"),  
    year),  
  mean(lifeExp), mean(gdp))
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The dplyr way:

```
gm %>%  
  mutate(gdp=gdpPercap*pop) %>%  
  filter(continent=="Asia") %>%  
  group_by(year) %>%  
  summarize(mean(lifeExp), mean(gdp))
```