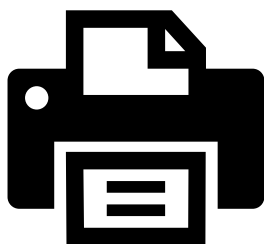


Výroba 3D vánočního stroměčku z věkové pyramidy

Strom života, tak se občas nazývá graf, při jehož alternativním zobrazení dostáváme věkovou pyramidu. V každé případě v něm zobrazujeme pohlavně věkovou strukturu vybrané populace. O Vánocích si mnoho z nás zdobí stroměček, pod kterým se objevuje nadílka. Nyní nabízíme k dispozici miniaturní verzi stroměčku na stůl s návodem na jeho sestavení.

Co budeme potřebovat?



Barevnou tiskárnu



Program MS Excel



Program Malování

Na stroměček:

- věkovou pyramidu vybrané populace (lze ji získat například z dat OSN či převzít přímo jejich graf)
- malý lámací nůž (zpravidla k nalezení u náradí nebo v hobby prodejnách)
- papír s vysokou gramáží (čtvrtka) libovolné (ale ideálně zelené) barvy
- běžně dostupné papíry A4

Na řetěz:

- barevné papíry
- nůžky
- tuhé lepidlo
- malou sešívačku (není bezpodmínečně nutná)
- pravítko, tužku a gumu

Jaký je postup?

Příprava grafu

Varianta 1: <https://population.un.org/wpp/Graphs/DemographicProfiles/Pyramid/>



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Figures ▾

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Graphs / Profiles

Select the location:

▼ **KLIK**

Dem. People's Republic of Korea

Democratic Republic of the Congo

Denmark **KLIK**

Djibouti

Dominica

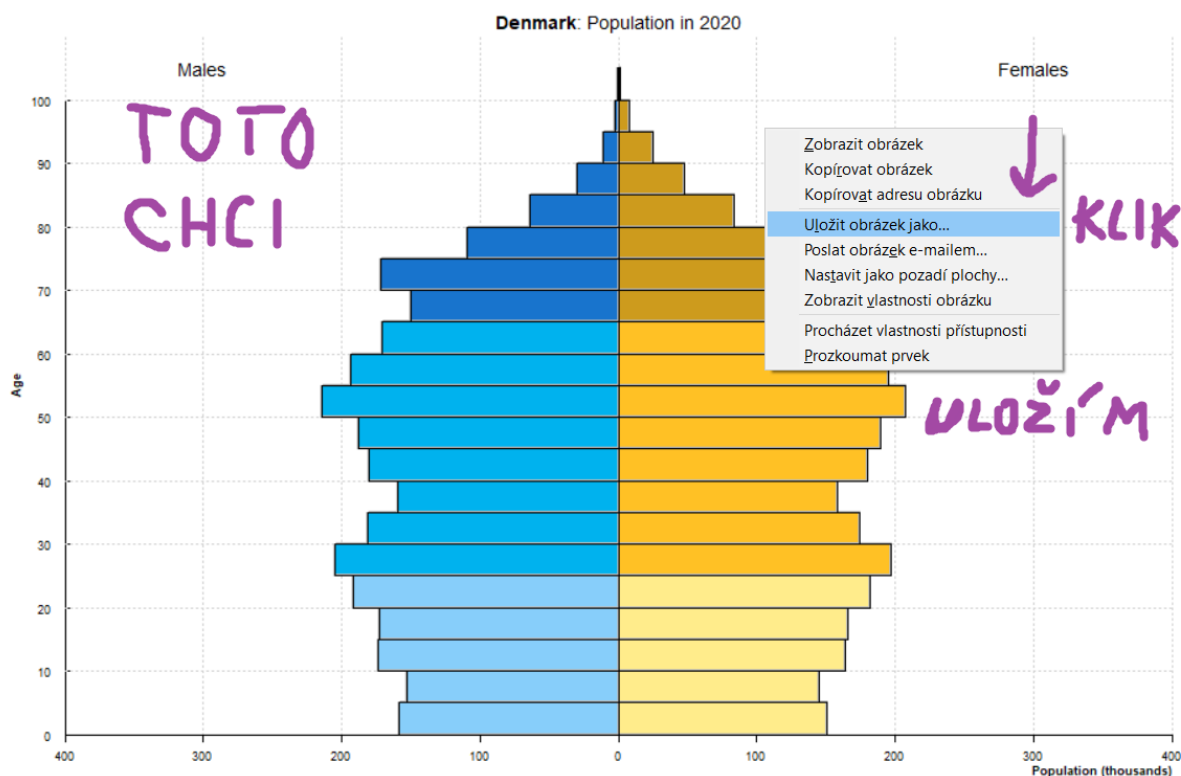
Dominican Republic

Select the graph:

analyses and technical notes from the current revision of the World Population Prospects. These documents do not imply the
ariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the

→ **STAČÍ SI VYBRAT ☺**

[Leave feedback about this page](#)



Klikáním je třeba vybrat: Proměnnou **Population by age and sex (thousands)** → zvolit region (např. **Denmark**) → zvolit rok (např. **2020**) → vybrat data za obě pohlaví – **Male, Female** → **všechny věkové skupiny nechat zakliknuté** → zobrazit data **By gender**

Proměnná



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Data
Figures
Documentation
World Urbanization Prospects
Population Division
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Data Query

Please select the desired indicator:

Population

Total Population by sex (thousands)

Average annual rate of population change (percentage)

Rate of natural increase (per 1,000 population)

Population density (persons per square km), as of 1 July

Population by age and sex (thousands)

Percentage of total population by broad age group, both sexes (per 100 total population)

Percentage of female population by broad age group (per 100 female total population)

Percentage of male population by broad age group (per 100 male total population)

Median age of the total population (years)

Sex ratio of the total population (males per 100 females)

Fertility

Crude birth rate (births per 1,000 population)

Volba regionu



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WPP Home
Data
Figures
Documentation
World Urbanization Prospects
Population Division
Contact Us

Data Query

Population by age and sex (thousands)

Please select the desired regions, countries or areas:

☐ World

☐ UN development groups

☐ World Bank income groups

☐ Geographic regions

☐ Sustainable Development Goal (SDG) regions

☐ Sub-Saharan Africa

☐ Northern Africa and Western Asia

☐ Central and Southern Asia

☐ Eastern and South-Eastern Asia

☐ Latin America and the Caribbean

☐ Australia/New Zealand

< Back

Next >

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DOLÍ



Data Query

Population by age and sex (thousands)

Please select the desired regions, countries or areas:

Type any part of the name to search...

- ☐ Australia/New Zealand
- ☐ Oceania (excluding Australia and New Zealand)
- ☐ Europe and Northern America
 - ☐ Europe
 - ☐ Eastern Europe
 - ☐ Northern Europe
 - ☐ Channel Islands
 - ☒ Denmark
 - ☐ Estonia
 - ☐ Finland
 - ☐ Iceland

* Europe and Northern America appear in both Geographic regions and Sustainable Development Goal (SDG) regions; composition and data are the same across their respective regions.

< Back

Next >

Volba roku



Data Query

Population by age and sex (thousands)

Please select the desired years or periods:

(maximum of 35 selections per query; by default all years multiples of 5 are pre-selected)

Quick selection:

☒ Select only years multiples of 5

From: 1950 To: 2100

Current selection (click on individual items to select/unselect or [here to clear all selections](#)):

1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
2060	2061	2062	2063	2064	2065	2066	2067	2068	2069

< Back

Next >

Volba pohlaví



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WPP Home Data Figures Documentation World Urbanization Prospects Population Division Contact Us

Data Query

Population by age and sex (thousands)

Please select the desired genders:

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Both sexes combined

Male

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Female

KLIK



< Back

Next >

Volba věkových skupin



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WPP Home Data Figures Documentation World Urbanization Prospects Population Division Contact Us

Data Query

Population by age and sex (thousands)

Please select the desired ages or age groups:

(by default all ages multiples of 5 are pre-selected)

Quick selection:

From: 0

To: 100+

Current selection (click on individual items to select/unselect or [here to clear all selections](#)):

0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99
100+									

↓
CHCI VŠECHNY

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< Back

Next >

Volba zobrazení



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Data Query

Population by age and sex (thousands)

Please select how you want to display the data:

(based on your previous selections, the best option is pre-selected)

By Years/Periods

By Age

By Gender

← KLIK

Location	...	Column 1	Column 2	Column ...
...	...	Your data		

< Back

Results >>

KLIK



Uložení excelovského souboru

WPP Home Data ▼ Figures ▼ Documentation ▼ World Urbanization Prospects Population Division Contact Us

Data Query

Population by age and sex (thousands)

Data

Notes

Location	Time	Age	Female	Male
World				
Sustainable Development Goal (SDG) regions				
Europe and Northern America				
Europe				
Northern Europe				
Denmark (21)	2020	0-4	150	158
Denmark (21)	2020	5-9	145	153
Denmark (21)	2020	10-14	164	173
Denmark (21)	2020	15-19	166	173
Denmark (21)	2020	20-24	182	192
Denmark (21)	2020	25-29	197	205

You may sort and filter the data by clicking the arrow in the column heading. To return to the original data, just remove the sort and filter settings.

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Citation: United Nations, Department of Economic and Social Affairs, Population Division (2019). World Population Prospects 2019, custom data acquired via website.

<< Start Over

< Back

Export to Excel

KLIK →



Soubor uložím a následně otevřu a zkopíruji data do námi předpřipraveného sešitu pro tvorbu grafů.

Automatické ukládání ☐ PopulationAgeSex-20201218045238 - Chráněné zobrazení

Soubor Domů Vložení Rozložení stránky Vzorce Data Revize Zobrazení Nápověda Hledat

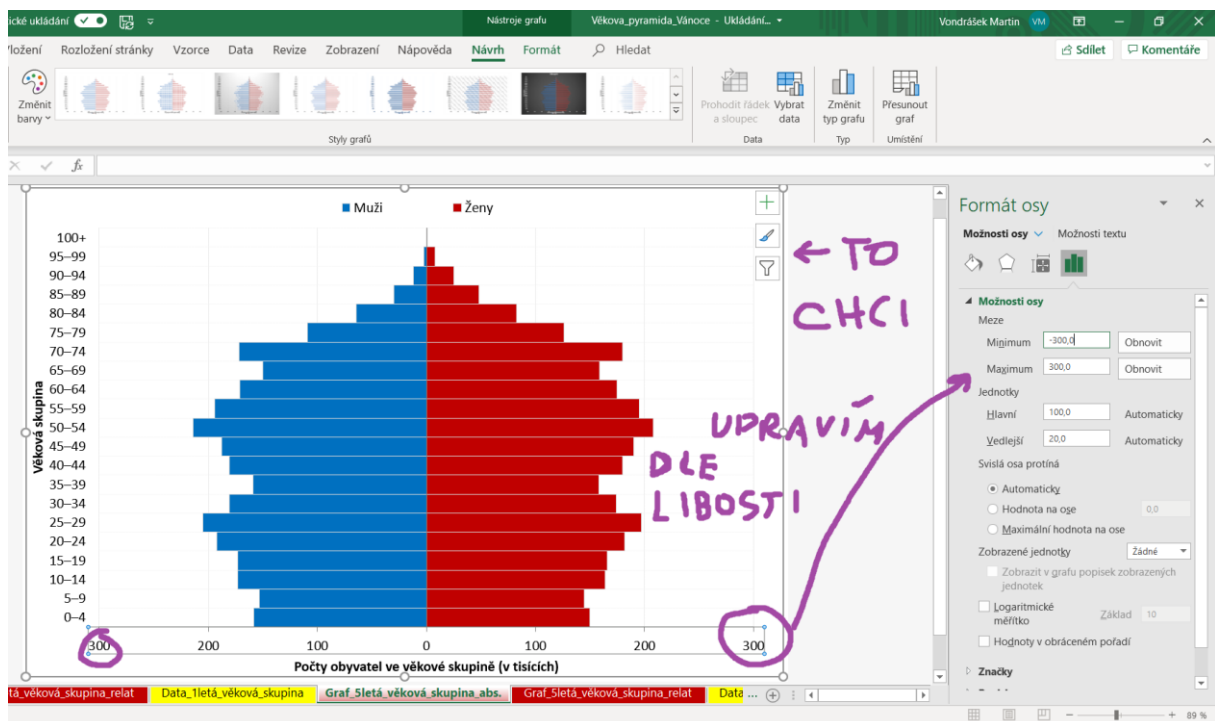
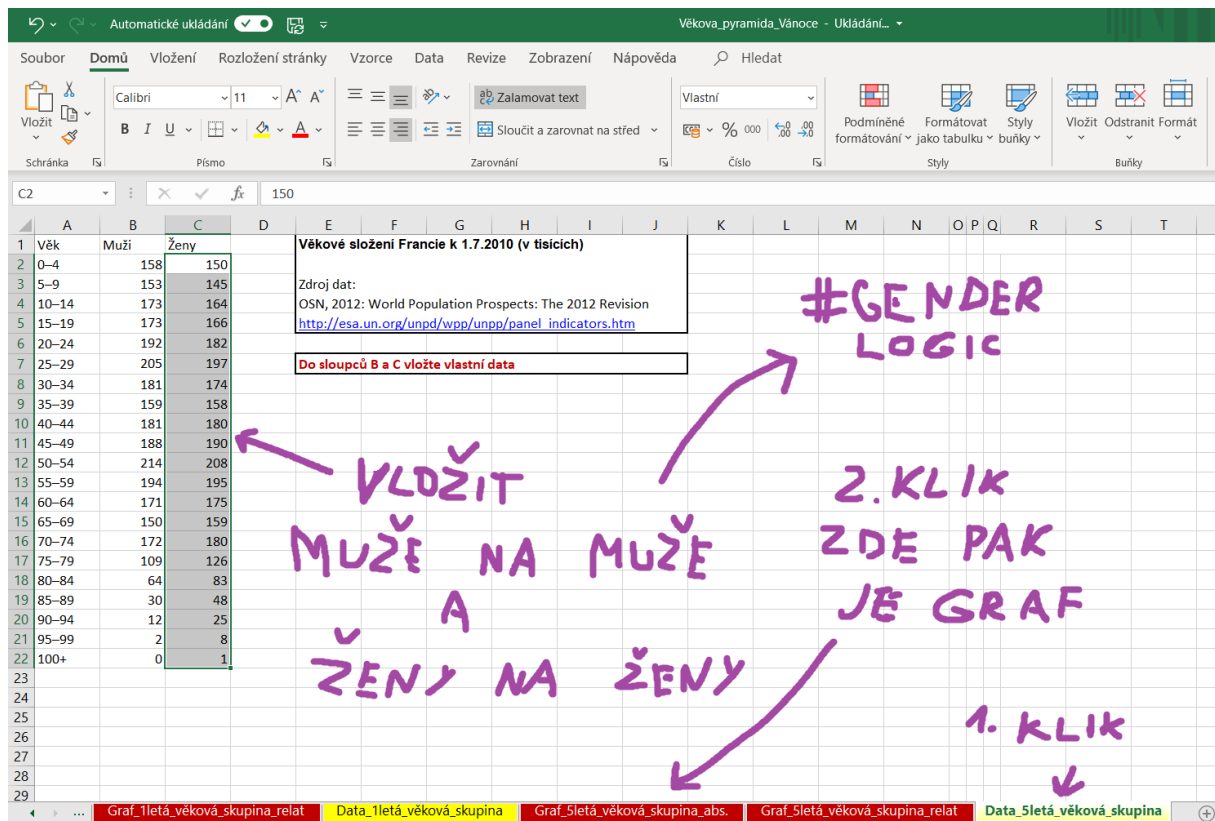
CHRÁNĚNÉ ZOBRAZENÍ Buďte opatrní. Soubory z internetu mohou obsahovat viry. Pokud je nepotřebujete upravovat, bude bezpečnější zůstat v chráněném zobrazení.

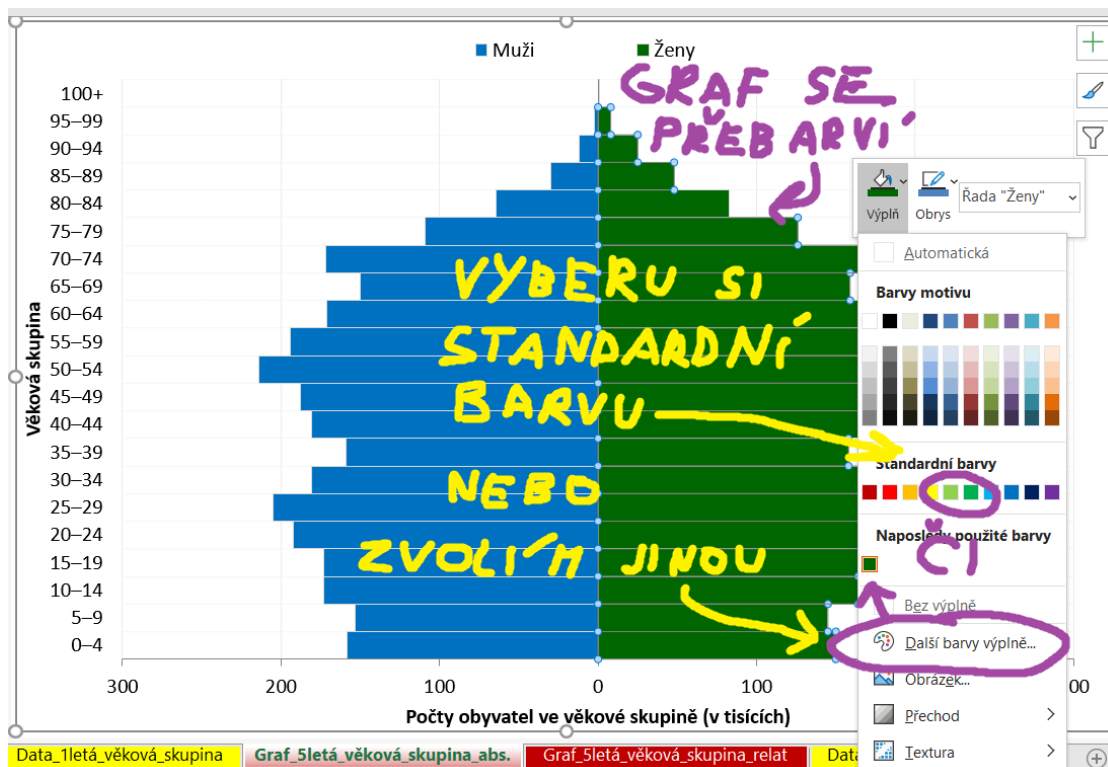
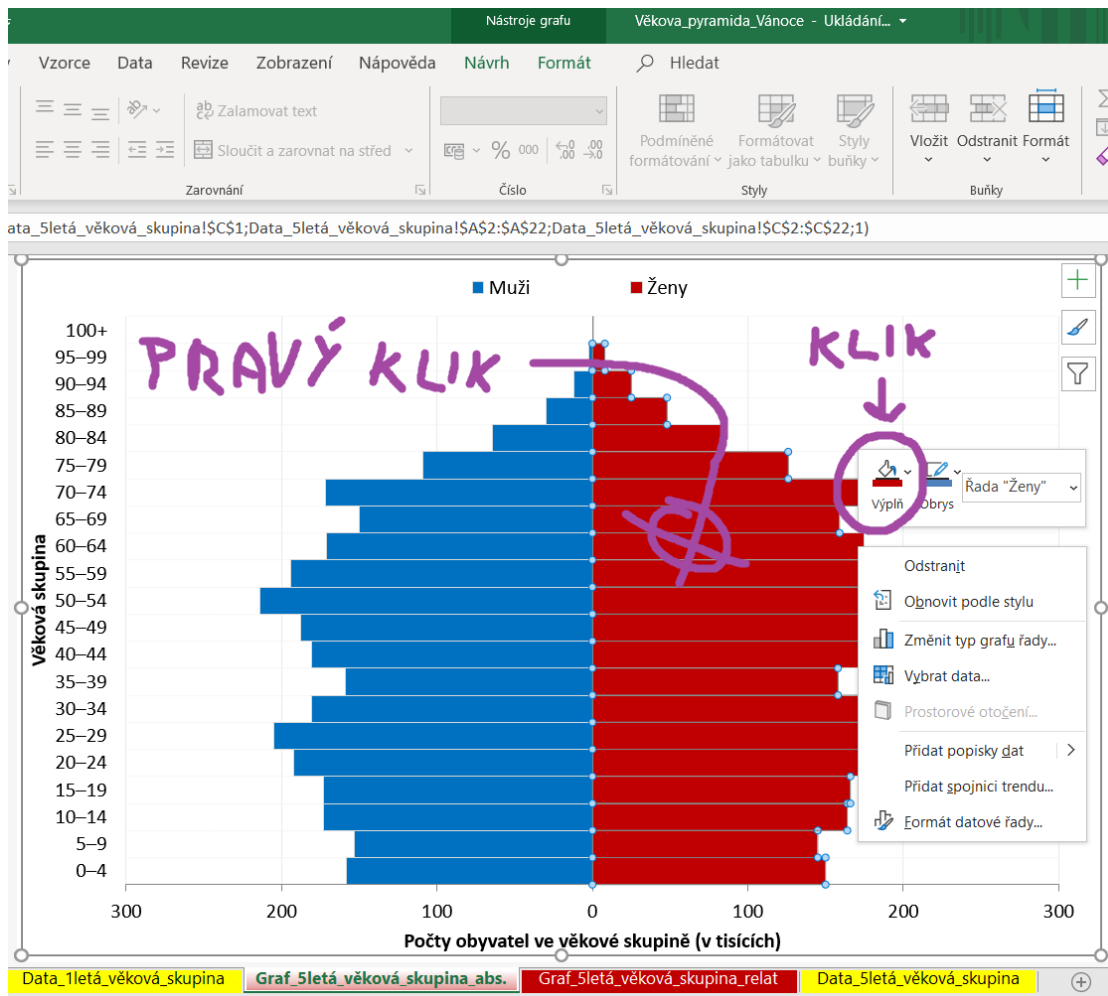
F8 150

	A	B	C	D	E	F	G
1	Population by age and sex (thousands)						
2	ISO 3166-1 numeric code	Location	Time	Age	Note	Female	Male
3	900	World					
4	1828	Sustainable Development Goal (SDG) regions					
5	1829	Europe and Northern America					
6	917	Europe					
7	924	Northern Europe					
8	208	Denmark	2020	0-4	21	150	158
9	208	Denmark	2020	5-9	21	145	153
10	208	Denmark	2020	10-14	21	164	173
11	208	Denmark	2020	15-19	21	166	173
12	208	Denmark	2020	20-24	21	182	192
13	208	Denmark	2020	25-29	21	197	205
14	208	Denmark	2020	30-34	21	174	181
15	208	Denmark	2020	35-39	21	158	159
16	208	Denmark	2020	40-44	21	180	181
17	208	Denmark	2020	45-49	21	190	188
18	208	Denmark	2020	50-54	21	208	214
19	208	Denmark	2020	55-59	21	195	194
20	208	Denmark	2020	60-64	21	175	171
21	208	Denmark	2020	65-69	21	159	150
22	208	Denmark	2020	70-74	21	180	172
23	208	Denmark	2020	75-79	21	126	109
24	208	Denmark	2020	80-84	21	83	64
25	208	Denmark	2020	85-89	21	48	30
26	208	Denmark	2020	90-94	21	25	12
27	208	Denmark	2020	95-99	21	8	2
28	208	Denmark	2020	100+	21	1	0
29							
30							
31							
32							

Instructions **Data** Notes

Handwritten notes:
OZ NAČIT ↘
KLIK ↘
A ZKOPÍROVAT (CTRL+C)

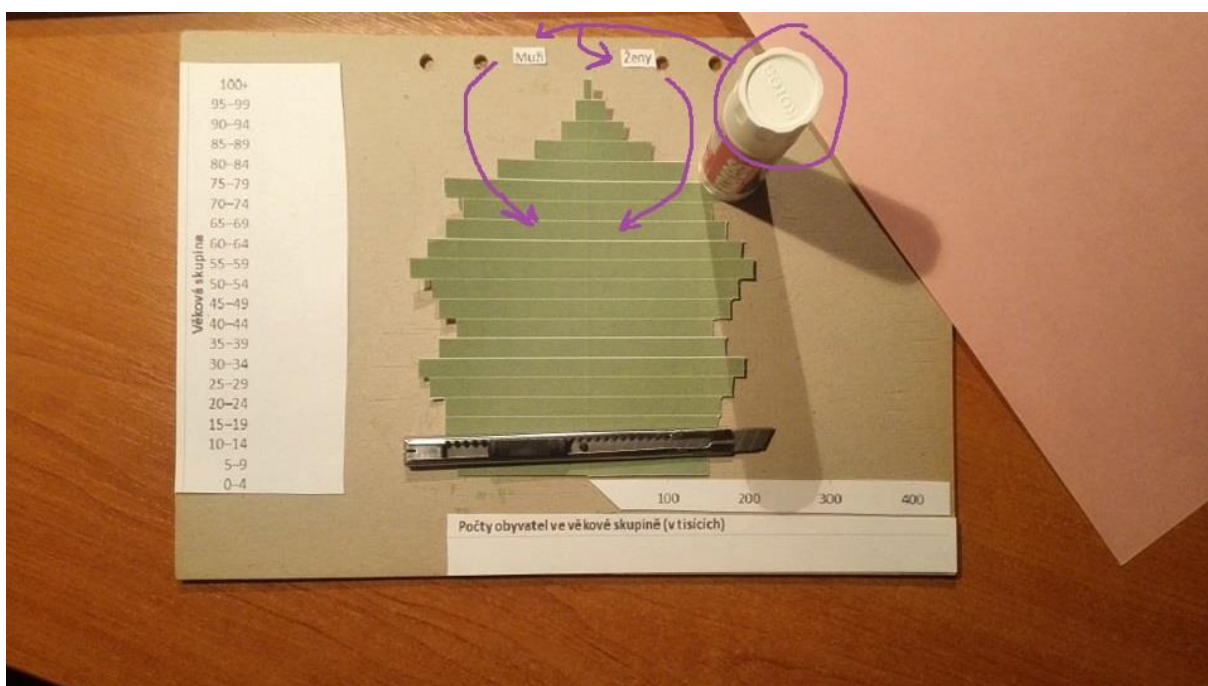
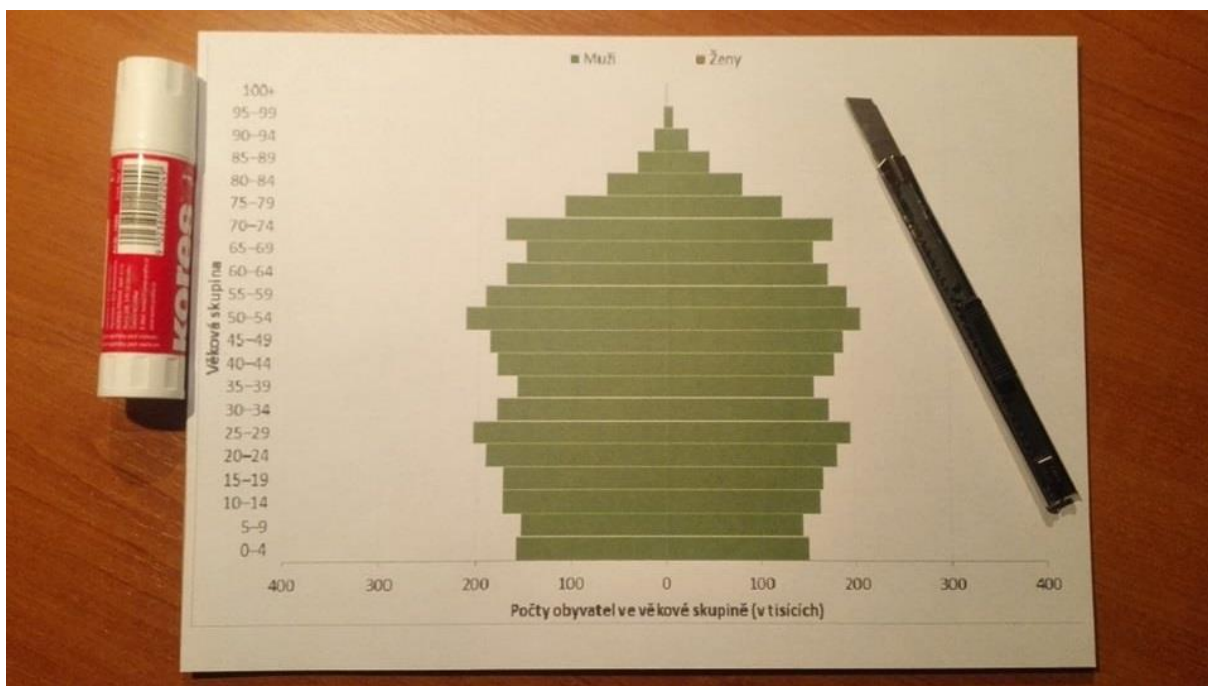




Až budeme s tvarem i barvou grafu spokojeni, můžeme ho zkopírovat do programu **Malování**, kde si graf uložíme jako obrázek (soubor → uložit jako → název obrázku).

Nyní si stačí pouze barevně vytisknout dvě kopie obrázku v požadované velikosti a jsme připravení na řezání/stříhání. Pro usnadnění dalšího postupu by bylo výhodou tisknout na čtvrtku (tvrdý papír), nicméně postup počítá s tiskem na klasický A4 papír s běžnou gramáží.

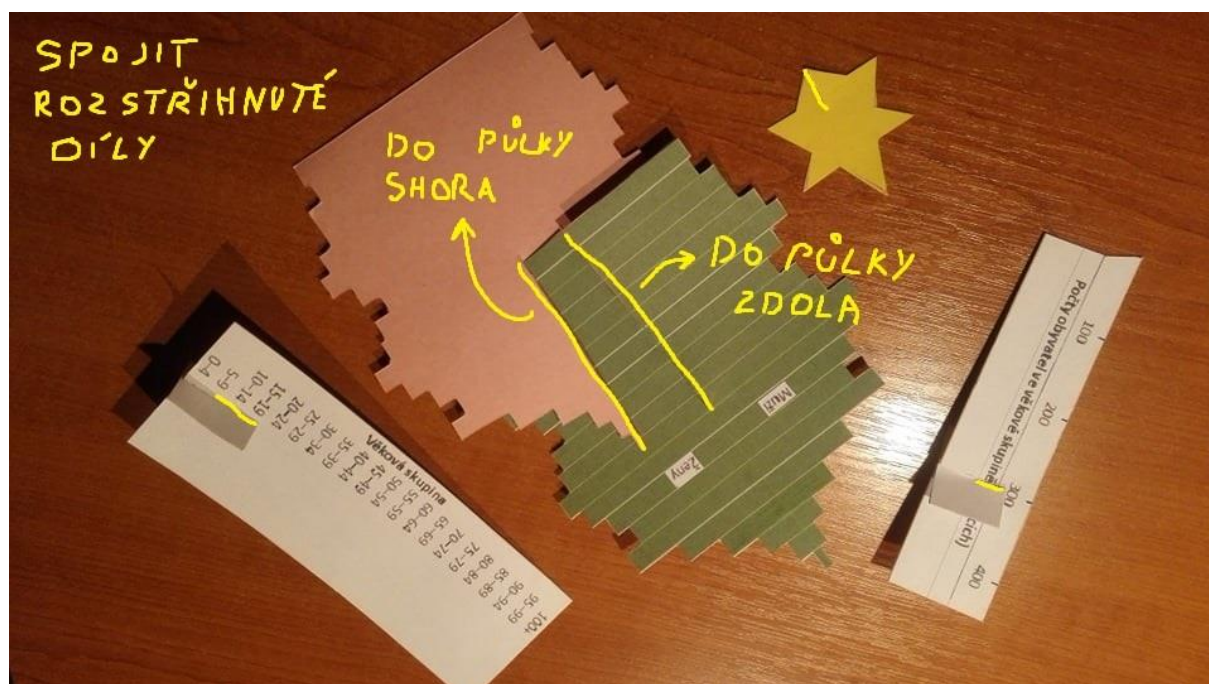
Vyříznutí stromku a os



Zpevnění jednotlivých prvků



Sestavení stromku a os



PŘIPRAVIT SI
BAREVNÉ PROUŽKY

A photograph of various craft supplies laid out on a dark wooden surface. In the upper left, a pair of black-handled scissors with silver blades is open. To its right is a long, thin, yellow paper strip. Further right is a yellow pencil with a black eraser. Below the pencil is a yellow paper strip with horizontal lines. In the lower right, a large, clear plastic triangular ruler is visible. The ruler has two smaller triangular cutouts inside it and a ruler scale along one edge.

PŘIPRAVIT SI
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A photograph of various craft supplies laid out on a dark wooden surface. In the upper left, a pair of black-handled scissors with silver blades is open. To its right is a long, thin, yellow paper strip. Further right is a yellow pencil with a black eraser. Below the pencil is a yellow paper strip with horizontal lines. In the lower right, a large, clear plastic triangular ruler is visible. The ruler has two smaller triangular cutouts inside it and a ruler scale along one edge.

A SPOJIT JE V ŘETĚZ



Hotovo!!!

