

# GeoData CZ/SK

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# Úvod a cíl projektu

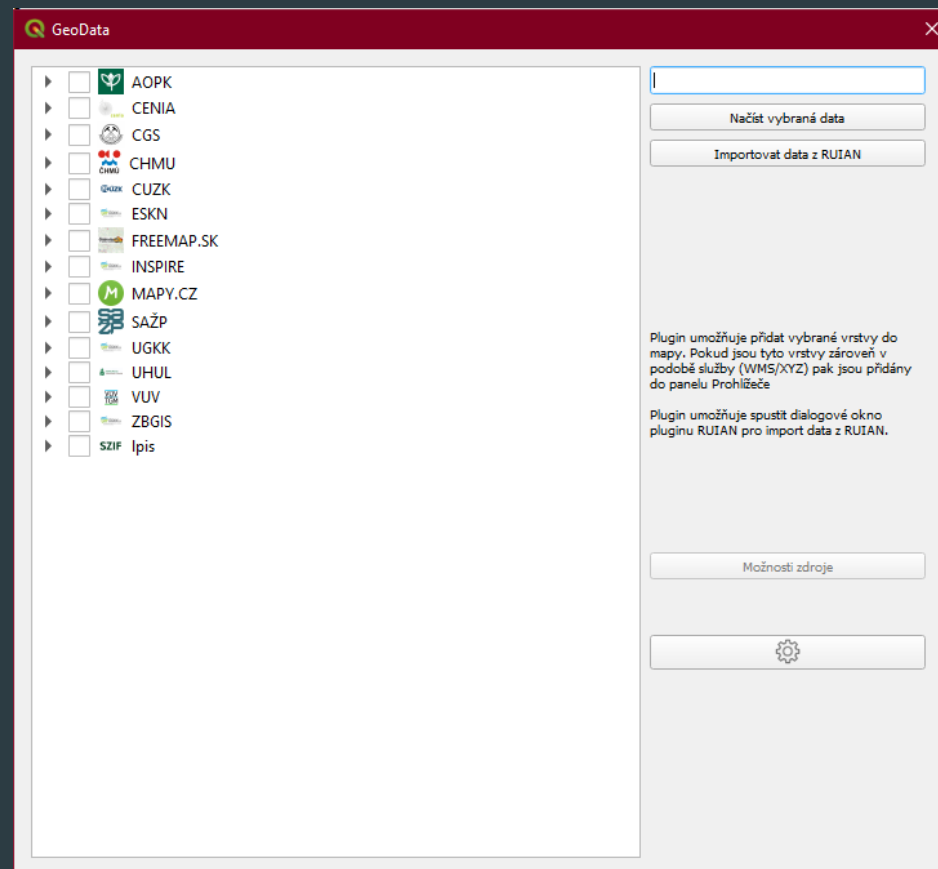
- projekt společnosti OpenGeoLabs s.r.o.
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- usnadnění přístupu k českým a slovenským datům

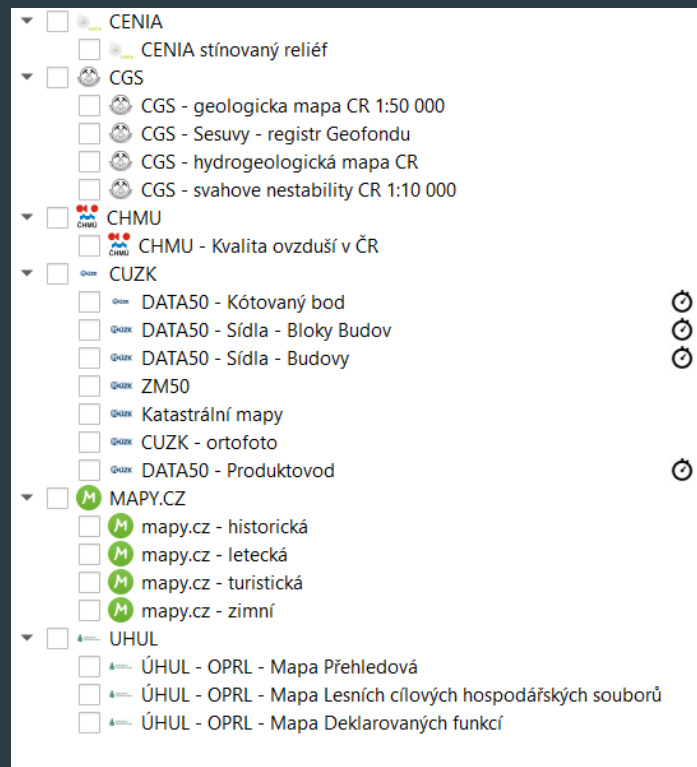
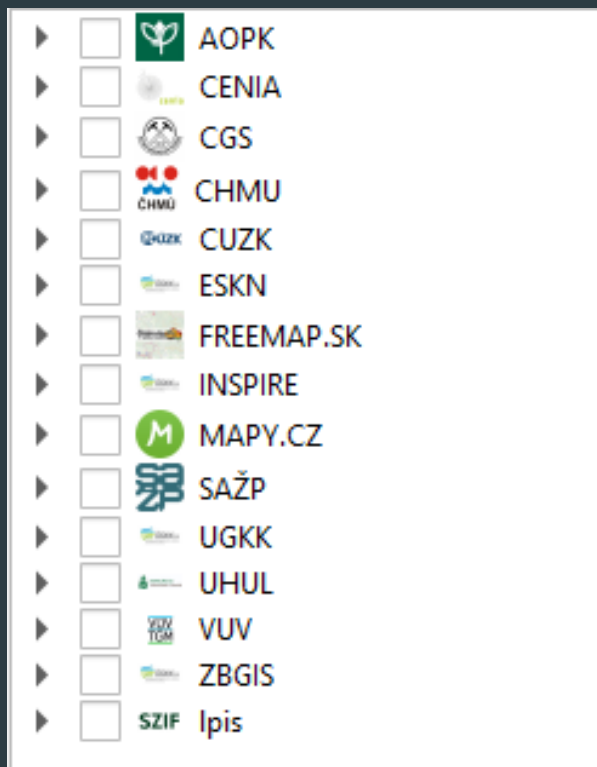
> open  
geo  
labs



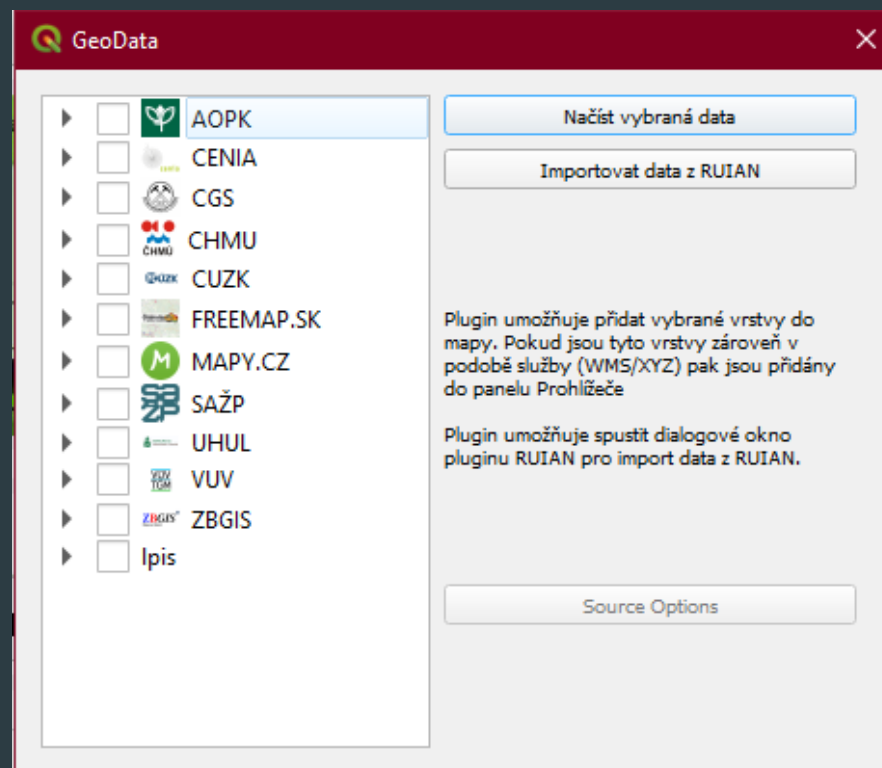
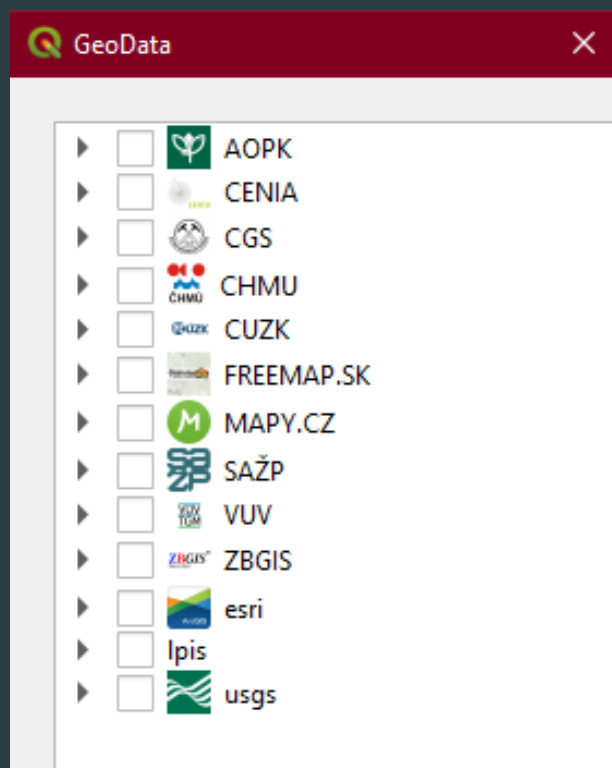
# Projekt GeoData CZ/SK

- jazyk Python3
- grafika - Qt Designer, PyQt
- XYZ/TMS, WMS





# Zdroje dat



# Úprava GUI

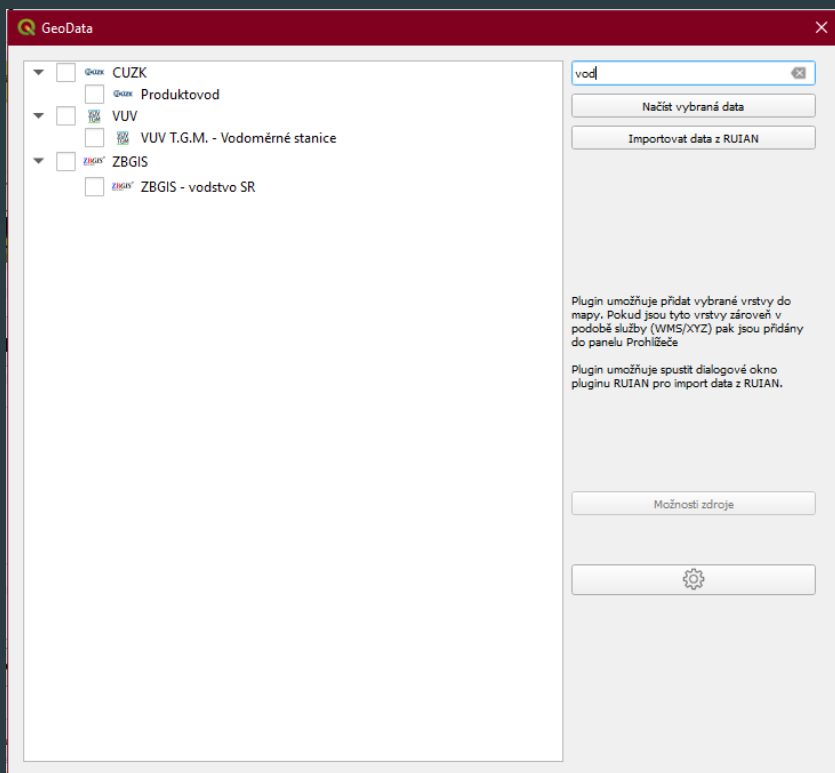
# Implementace vyhledávače

## ► Funkce *get\_unicode\_string*

```
53 # Return lowered unencoded string
54 def get_unicode_string(word: str):
55     """Filter out diacritics from keyword."""
56     output = ''
57     line = unicodedata.normalize('NFKD', word)
58
59     for c in line:
60         if not unicodedata.combining(c):
61             output += c
62
63     return output.lower()
```

# Implementace vyhledávače

## ► Funkce `load_filtered_sources_into_tree`



```
def load_filtered_sources_into_tree(self):
    """
    Loads filtered data into tree based on string given by filterBox.
    """
    self.keyword = self.filterBox.value()
    self.treeWidgetSources.clear()

    keywordString = get_unicode_string(self.keyword)
    tree = self.treeWidgetSources
    group = ""
    index = 0

    for data_source in self.data_sources:
        print(self.is_in_region(get_unencoded_list(data_source['keywords'])))
        if ((keywordString == "" and self.is_in_region(get_unencoded_list(data_source['keywords'])))
            or (self.is_in_region(get_unencoded_list(data_source['keywords'])) and keywordString in get_unicode_string(data_source['keywords']))
            or (self.is_in_region(get_unencoded_list(data_source['keywords'])) and keywordString in get_unicode_string(data_source['keywords']))
            or (self.is_in_region(get_unencoded_list(data_source['keywords'])) and keywordString in get_unicode_string(data_source['keywords']))):
            current_group = data_source['path'].split("_")[0]

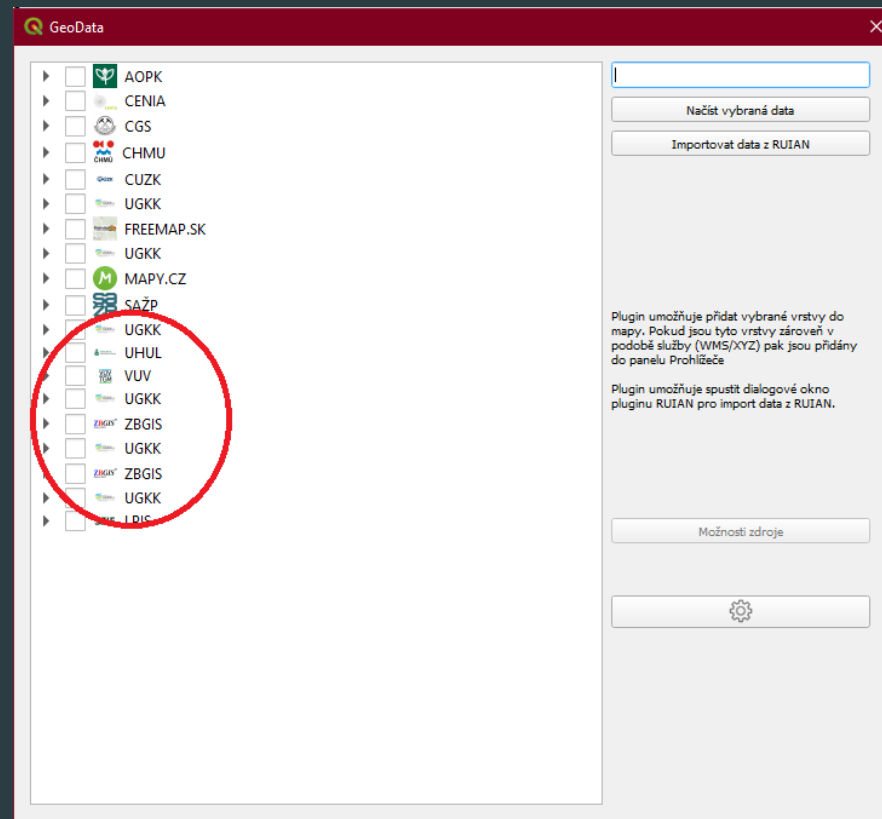
            if current_group != group:
                group = current_group
                parent = QTreeWidgetItem(tree)
                parent.setText(0, current_group) # TODO read from metadata.ini (maybe)
                parent.setFlags(parent.flags() | Qt.ItemIsTristate | Qt.ItemIsUserCheckable)
                parent.setIcon(0, QIcon(os.path.join(data_source['logo'])))

                child = QTreeWidgetItem(parent)
                child.setFlags(child.flags() | Qt.ItemIsUserCheckable)
                child.setText(0, data_source['alias'])
                child.setIcon(0, QIcon(os.path.join(data_source['logo'])))
                if "PROC" in data_source['type']:
                    child.setIcon(1, QIcon(os.path.join(self.current_dir, 'icons/timer.png')))

                child.setData(0, Qt.UserRole, index)
                if data_source['checked'] == "True":
                    child.setCheckState(0, Qt.Checked)
                else:
                    child.setCheckState(0, Qt.Unchecked)

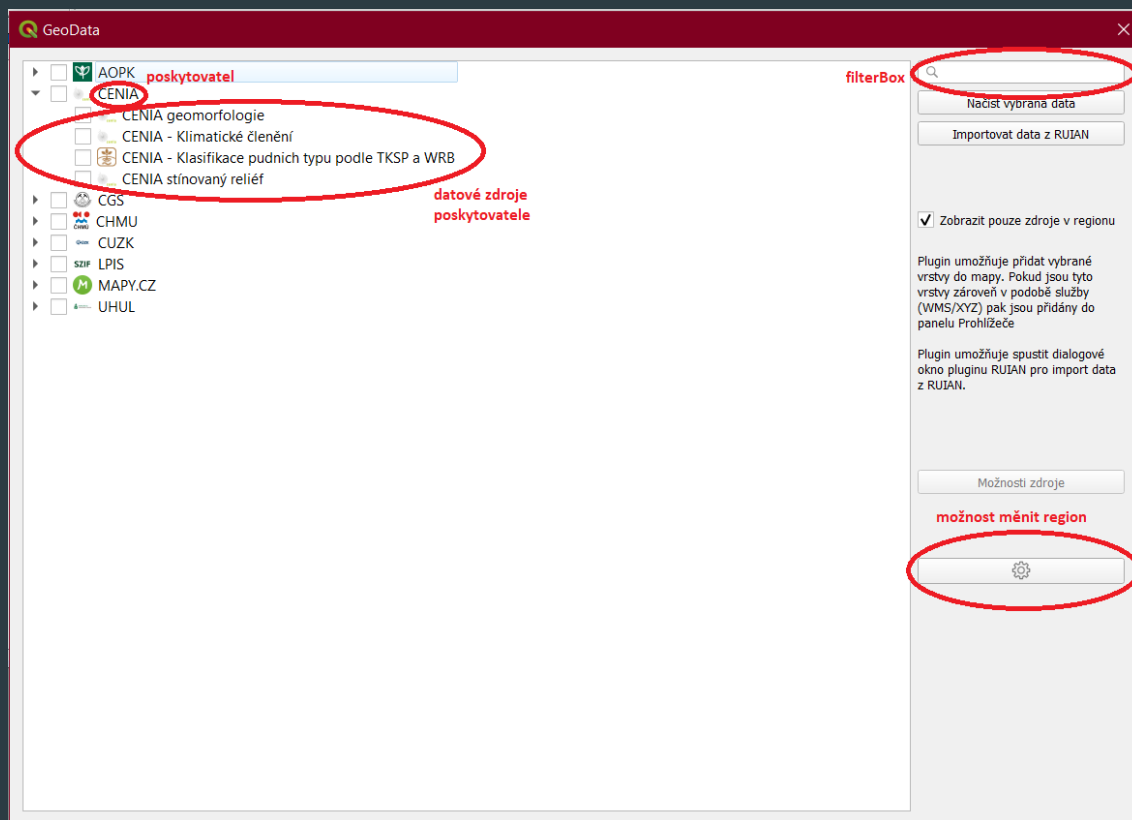
                index += 1
            tree.expandAll()
        if self.keyword == "":
            tree.collapseAll()
```

# Chyba v řazení položek





# Výsledná podoba



```
1 string = "Děkujeme za pozornost"  
2 print(string)
```