

dotnet/0-AI-settings.ipynb

```
{
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    {
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      "metadata": {},
      "source": [
        "Before starting we need to setup some configuration, like which AI\nbackend to use.\n",
        "\n",
        "When using the kernel for AI requests, the kernel needs some settings\nlike URL and\n",
        "credentials to the AI models. The SDK currently supports OpenAI and\nAzure OpenAI,\n",
        "other services will be added over time. If you need an Azure OpenAI key,\ngo\n",
        "[here](https://learn.microsoft.com/en-us/azure/cognitive-services/openai/quickstart?pivots=rest-api)."\n      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "The following code will ask a few questions and save the settings to a\nlocal\n",
        "`settings.json` configuration file, under the [config](config) folder.\nYou can\n",
        "also edit the file manually if you prefer. **Please keep the file\nsafe.**\n",
        "\n",
        "## Step 1\n",
        "\n",
        "First step: choose whether you want to use the notebooks with Azure\nOpenAI or OpenAI,\n",
        "setting the `useAzureOpenAI` boolean below."
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
```

```

"metadata": {
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    "kernelName": "csharp"
  },
  "vscode": {
    "languageId": "polyglot-notebook"
  }
},
"outputs": [],
"source": [
  "bool useAzureOpenAI = false;"
]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "## Step 2\n",
    "\n",
    "Run the following code. If you need to find the value and copy and  

    paste, you can\n",
    "re-run the code and continue from where you left off."
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [

```

```

    "#!import config/Settings.cs\n",
    "\n",
    "await Settings.AskAzureEndpoint(useAzureOpenAI);\n",
    "await Settings.AskModel(useAzureOpenAI);\n",
    "await Settings.AskApiKey(useAzureOpenAI);\n",
    "\n",
    "// Uncomment this if you're using OpenAI and need to set the Org Id\n",
    "// await Settings.AskOrg(useAzureOpenAI);"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "If the code above doesn't show any error, you're good to go and run the other notebooks.\n",
        "\n",
        "## Resetting the configuration\n",
        "\n",
        "If you want to reset the configuration and start again, please uncomment and run the code below.\n",
        "You can also edit the [config/settings.json](config/settings.json) manually if you prefer."
    ]
},
{
    "cell_type": "code",
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    "metadata": {
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        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [
        "#!import config/Settings.cs\n",
        "\n",

```

```

    "// Uncomment this line to reset your settings and delete the file from
disk.\n",
    "// Settings.Reset();"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Now that your environment is all set up, let's dive into\n",
        "[how to do basic loading of the Semantic Kernel](01-basic-loading-the-
kernel.ipynb)."]
    ]
},
{
    "metadata": {
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            "display_name": ".NET (C#)",
            "language": "C#",
            "name": ".net-csharp"
        },
        "language_info": {
            "file_extension": ".cs",
            "mimetype": "text/x-csharp",
            "name": "C#",
            "pygments_lexer": "csharp",
            "version": "11.0"
        }
    },
    "polyglot_notebook": {
        "kernelInfo": {
            "defaultKernelName": "csharp",
            "items": [
                {
                    "aliases": [],
                    "name": "csharp"
                }
            ]
        }
    }
},
{
    "nbformat": 4,
    "nbformat_minor": 2
}

```

dotnet/00-getting-started.ipynb

```
{
  "cells": [
    {
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      "metadata": {},
      "source": [
        "#### Watch the Getting Started Quick Start [Video](https://aka.ms/SK-Getting-Started-Notebook)\n",
        "\n",
        "> [!IMPORTANT]\n",
        "> You will need an [.Net 7 SDK](https://dotnet.microsoft.com/en-us/download) and [Polyglot](https://marketplace.visualstudio.com/items?itemName=ms-dotnettools.dotnet-interactive-vscode) to get started with this notebook using .Net Interactive"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "***Step 1***: Configure your AI service credentials\n",
        "\n",
        "Use [this notebook](0-AI-settings.ipynb) first, to choose whether to run these notebooks with OpenAI or Azure OpenAI,\n",
        "and to save your credentials in the configuration file."
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
      "metadata": {
        "dotnet_interactive": {
          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        }
      },
      "outputs": [],
      "source": [
```

```

    "// Load some helper functions, e.g. to load values from settings.json\n",
    "#!import config/Settings.cs "
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "***Step 2***: Import Semantic Kernel SDK from NuGet"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "// Import Semantic Kernel\n",
    "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\""
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "***Step 3***: Instantiate the Kernel"
  ]
},
{
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  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    }
  },

```

```

    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "using Microsoft.SemanticKernel;\n",
    "\n",
    "//Create Kernel builder\n",
    "var builder = new KernelBuilder();"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "// Configure AI service credentials used by the kernel\n",
    "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
    "\n",
    "if (useAzureOpenAI)\n",
    "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
    "\n",
    "else\n",
    "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
    "\n",
    "IKernel kernel = builder.Build();"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "***Step 4** Load and Run a Skill"
  ]
}

```



```

    ]
  },
  {
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    "metadata": {
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        "language": "csharp"
      },
      "polyglot_notebook": {
        "kernelName": "csharp"
      }
    },
    "outputs": [],
    "source": [
      "// Load the Skills Directory\n",
      "var skillsDirectory =
Path.Combine(System.IO.Directory.GetCurrentDirectory(), \"...\", \"...\",
\"skills\");\n",
      "\n",
      "// Load the FunSkill from the Skills Directory\n",
      "var funSkillFunctions =
kernel.ImportSemanticSkillFromDirectory(skillsDirectory, \"FunSkill\");\n",
      "\n",
      "// Run the Function called Joke\n",
      "var result = await funSkillFunctions[\"Joke\"].InvokeAsync(\"time travel
to dinosaur age\");\n",
      "\n",
      "// Return the result to the Notebook\n",
      "Console.WriteLine(result);"
    ]
  },
  {
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
      "***Next Steps***: You know the basics, let's try this in a sample app so
you can learn the core concepts!\n",
      "\n",
      "Sample app learning examples:\n",
      "- [Simple chat summary](../../apps/chat-summary-webapp-react/README.md)
(**Recommended**) - learn how basic semantic functions can be added to an
app\n",

```

```

    "- [Book creator](../../apps/book-creator-webapp-react/README.md) - learn
how Planner and chaining of semantic functions can be used in your app\n",
    "- [Authentication and APIs](../../dotnet/graph-api-skills/README.md) -
learn how to connect to external API's with authentication while using
Semantic Kernel\n",
    "- [GitHub repository Q&A](../../apps/github-qna-webapp-react/README.md)
- Use embeddings and memory to store and query your data\n",
    "- [Copilot Chat](../../apps/copilot-chat-app/README.md) - Build your own
chatbot based on Semantic Kernel"
  ]
}
],
"metadata": {
  "kernelSpec": {
    "display_name": ".NET (C#)",
    "language": "C#",
    "name": ".net-csharp"
  },
  "language_info": {
    "name": "polyglot-notebook"
  },
  "polyglot_notebook": {
    "kernelInfo": {
      "defaultKernelName": "csharp",
      "items": [
        {
          "aliases": [],
          "name": "csharp"
        }
      ]
    }
  }
},
"nbformat": 4,
"nbformat_minor": 2
}

```

dotnet/01-basic-loading-the-kernel.ipynb

```
{
  "cells": [
    {
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      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# Basic Loading of the Kernel"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "The Semantic Kernel SDK can be imported from the following nuget feed:"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
      "metadata": {
        "dotnet_interactive": {
          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        },
        "vscode": {
          "languageId": "polyglot-notebook"
        }
      },
      "outputs": [],
      "source": [
        "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\""
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [

```

"After adding the nuget package, you can instantiate the kernel in a few ways, depending on your use case.\n"

```
]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "using Microsoft.SemanticKernel;\n",
    "\n",
    "// Simple instance\n",
    "IKernel kernel_1 = KernelBuilder.Create();"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "using Microsoft.Extensions.Logging;\n",
    "using Microsoft.Extensions.Logging.Abstractions;\n",
```

```

        "\n",
        "// Inject your logger \n",
        "// see Microsoft.Extensions.Logging.ILogger @ https://
learn.microsoft.com/dotnet/core/extensions/logging\n",
        "ILogger myLogger = NullLogger.Instance;\n",
        "IKernel kernel_2 = Kernel.Builder\n",
        "    .WithLogger(myLogger)\n",
        "    .Build();"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [
        "// Inject a custom configuration\n",
        "var config = new KernelConfig();\n",
        "IKernel kernel_3 = Kernel.Builder\n",
        "    .WithConfiguration(config)\n",
        "    .Build();"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "When using the kernel for AI requests, the kernel needs some settings
like URL and credentials to the AI models.\n",
        "\n",
        "The SDK currently supports OpenAI and Azure OpenAI, other services will
be added over time.\n",
        "\n"
    ]
}

```

"If you need an Azure OpenAI key, go [here](https://learn.microsoft.com/en-us/azure/cognitive-services/openai/quickstart?pivots=rest-api)."

```
]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "Kernel.Builder\n",
    ".WithAzureTextCompletionService(\n",
    "    \"my-finetuned-Curie\",                // Azure OpenAI
    *Deployment Name*\n",
    "    \"https://contoso.openai.azure.com/\",    // Azure OpenAI
    *Endpoint*\n",
    "    \"...your Azure OpenAI Key...\",          // Azure OpenAI *Key*\n",
    "    \"Azure_curie\"                            // alias used in the
    prompt templates' config.json\n",
    "  )\n",
    ".WithOpenAITextCompletionService(\n",
    "    \"text-davinci-003\",                    // OpenAI Model Name\n",
    "    \"...your OpenAI API Key...\",            // OpenAI API key\n",
    "    \"...your OpenAI Org ID...\",             // *optional* OpenAI
    Organization ID\n",
    "    \"OpenAI_davinci\"                        // alias used in the
    prompt templates' config.json\n",
    "  );"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
```

```

"source": [
    "When working with multiple backends and multiple models, the first
backend** defined\n",
    "is also the default\n" used in these scenarios:\n",
    "\n",
    "** a prompt configuration doesn't specify which AI backend to use\n",
    "** a prompt configuration requires a backend unknown to the kernel\n",
    "\n",
    "The default can be set programmatically:"
]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [
        "Kernel.Builder\n",
        ".WithOpenAITextCompletionService(\n",
        "    \"text-davinci-003\",                // OpenAI Model Name\n",
        "    \"...your OpenAI API Key...\",        // OpenAI API key\n",
        "    \"...your OpenAI Org ID...\",         // *optional* OpenAI
Organization ID\n",
        "    \"OpenAI_davinci\",                   // alias used in the
prompt templates' config.json\n",
        "    true                                // This flag specifies that
this service is the default one.\n",
        ");"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},

```

```

    "source": [
        "Great, now that you're familiar with setting up the Semantic Kernel,  

        let's see [how we can use it to run prompts](02-running-prompts-from-  

        file.ipynb).\"
    ]
}
],
"metadata": {
    "kernelspec": {
        "display_name": ".NET (C#)\",
        "language": \"C#\",
        "name": \".net-csharp\"
    },
    "language_info": {
        \"file_extension\": \".cs\",
        \"mimetype\": \"text/x-csharp\",
        \"name\": \"C#\",
        \"pygments_lexer\": \"csharp\",
        \"version\": \"11.0\"
    },
    \"polyglot_notebook\": {
        \"kernelInfo\": {
            \"defaultKernelName\": \"csharp\",
            \"items\": [
                {
                    \"aliases\": [],
                    \"name\": \"csharp\"
                }
            ]
        }
    }
},
\"nbformat\": 4,
\"nbformat_minor\": 2
}

```


dotnet/02-running-prompts-from-file.ipynb

```
{
  "cells": [
    {
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      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# How to run a semantic skills from file\n",
        "Now that you're familiar with Kernel basics, let's see how the kernel\n",
        "allows you to run Semantic Skills and Semantic Functions stored on disk. \n",
        "\n",
        "A Semantic Skill is a collection of Semantic Functions, where each\n",
        "function is defined with natural language that can be provided with a text\n",
        "file. \n",
        "\n",
        "Refer to our [glossary](../../docs/GLOSSARY.md) for an in-depth guide\n",
        "to the terms.\n",
        "\n",
        "The repository includes some examples under the [samples](https://\n",
        "github.com/microsoft/semantic-kernel/tree/main/samples) folder.\n",
        "\n",
        "For instance, [this](../../skills/FunSkill/Joke/skprompt.txt) is the\n",
        "**Joke function** part of the **FunSkill skill**:"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "```\n",
        "WRITE EXACTLY ONE JOKE or HUMOROUS STORY ABOUT THE TOPIC BELOW.\n",
        "JOKE MUST BE:\n",
        "- G RATED\n",
        "- WORKPLACE/FAMILY SAFE\n",
        "NO SEXISM, RACISM OR OTHER BIAS/BIGOTRY.\n",
        "BE CREATIVE AND FUNNY. I WANT TO LAUGH.\n",
        "+++++\n",
        "{$input}\n",
        "+++++\n",
        "```"
      ]
    }
  ]
}
```

```

    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "Note the special **`{{$input}}`** token, which is a variable that is
        automatically passed when invoking the function, commonly referred to as a
        \"function parameter\". \n",
        "\n",
        "We'll explore later how functions can accept multiple variables, as well
        as invoke other functions."
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "\n",
        "In the same folder you'll notice a second [config.json](../skills/
        FunSkill/Joke/config.json) file. The file is optional, and is used to set
        some parameters for large language models like Temperature, TopP, Stop
        Sequences, etc.\n",
        "\n",
        "```\n",
        "{\n",
        "  \"schema\": 1,\n",
        "  \"type\": \"completion\",\n",
        "  \"description\": \"Generate a funny joke\",\n",
        "  \"completion\": {\n",
        "    \"max_tokens\": 500,\n",
        "    \"temperature\": 0.5,\n",
        "    \"top_p\": 0.5\n",
        "  }\n",
        "}\n",
        "```\n",
        ]
      ],
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [

```

```

    "Given a semantic function defined by these files, this is how to load
and use a file based semantic function.\n",
    "\n",
    "Configure and create the kernel, as usual, loading also the AI backend
settings defined in the [Setup notebook](0-AI-settings.ipynb):"
]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\"\n",
        "\n",
        "#!import config/Settings.cs\n",
        "\n",
        "using Microsoft.SemanticKernel;\n",
        "\n",
        "var builder = new KernelBuilder();\n",
        "\n",
        "// Configure AI backend used by the kernel\n",
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
        "if (useAzureOpenAI)\n",
        "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
        "\n",
        "else\n",
        "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
        "\n",
        "IKernel kernel = builder.Build();"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},

```

```

    "source": [
        "Import the skill and all its functions:"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "// note: using skills from the repo\n",
        "var skillsDirectory =
Path.Combine(System.IO.Directory.GetCurrentDirectory(), @"..\\", @"..\\",
@"skills\");\n",
        "\n",
        "var funSkillFunctions =
kernel.ImportSemanticSkillFromDirectory(skillsDirectory, @"FunSkill\");"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "How to use the skill functions, e.g. generate a joke about \"*time
travel to dinosaur age*\": "
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    }
}

```

```

    }
  },
  "outputs": [],
  "source": [
    "var result = await funSkillFunctions[\"Joke\"].InvokeAsync(\"time travel\n\n\n\n\n\nto dinosaur age\");\n",
    "\n",
    "Console.WriteLine(result);"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "Great, now that you know how to load a skill from disk, let's show how you can [create and run a semantic function inline.](./03-semantic-function-inline.ipynb)"
  ]
}
],
"metadata": {
  "kernelspec": {
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    "language": "C#",
    "name": ".net-csharp"
  },
  "language_info": {
    "name": "polyglot-notebook"
  },
  "polyglot_notebook": {
    "kernelInfo": {
      "defaultKernelName": "csharp",
      "items": [
        {
          "aliases": [],
          "name": "csharp"
        }
      ]
    }
  }
},
"nbformat": 4,
"nbformat_minor": 2

```

}

dotnet/03-semantic-function-inline.ipynb

```
{
  "cells": [
    {
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      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# Running Semantic Functions Inline"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "The [previous notebook](./02-running-prompts-from-file.ipynb)\n",
        "showed how to define a semantic function using a prompt template stored\n",
        "on a file.\n",
        "\n",
        "In this notebook, we'll show how to use the Semantic Kernel to define\n",
        "functions inline with your C# code. This can be useful in a few scenarios:\n",
        "\n",
        "* Dynamically generating the prompt using complex rules at runtime\n",
        "* Writing prompts by editing C# code instead of TXT files. \n",
        "* Easily creating demos, like this document\n",
        "\n",
        "Prompt templates are defined using the SK template language, which\n",
        "allows to reference variables and functions. Read [this doc](https://aka.ms/\n",
        "sk/howto/configurefunction) to learn more about the design decisions for\n",
        "prompt templating. \n",
        "\n",
        "For now we'll use only the `{{$input}}` variable, and see more complex\n",
        "templates later.\n",
        "\n",
        "Almost all semantic function prompts have a reference to `{{$input}}`,\n",
        "which is the default way\n",
        "a user can import content from the context variables."
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",

```

```

    "metadata": {},
    "source": [
        "Prepare a semantic kernel instance first, loading also the AI backend
settings defined in the [Setup notebook](0-AI-settings.ipynb):"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\"\n",
        "\n",
        "##!import config/Settings.cs\n",
        "\n",
        "using Microsoft.SemanticKernel;\n",
        "using Microsoft.SemanticKernel.SemanticFunctions;\n",
        "\n",
        "var builder = new KernelBuilder();\n",
        "\n",
        "// Configure AI backend used by the kernel\n",
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
        "if (useAzureOpenAI)\n",
        "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
        "\n",
        "else\n",
        "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
        "\n",
        "IKernel kernel = builder.Build();"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},

```



```

"source": [
  "Let's create a semantic function used to summarize content:"
]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "string skPrompt = \"\\\"\\\"\\\"\\\"\\n\",
    \"{{${input}}}\\n\",
    \"\\n\",
    \"Summarize the content above.\\n\",
    \"\\\"\\\"\\\"\\\";\"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "Let's configure the prompt, e.g. allowing for some creativity and a
sufficient number of tokens."
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],

```

```

"outputs": [],
"source": [
    "var promptConfig = new PromptTemplateConfig\n",
    "{\n",
    "    Completion = \n",
    "    {\n",
    "        MaxTokens = 2000,\n",
    "        Temperature = 0.2,\n",
    "        TopP = 0.5,\n",
    "    }\n",
    "};"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "The following code prepares an instance of the template, passing in the  

        TXT and configuration above, \n",
        "and a couple of other parameters (how to render the TXT and how the  

        template can access other functions)."
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "var promptTemplate = new PromptTemplate(\n",
        "    skPrompt,                // Prompt template defined in  

        natural language\n",
        "    promptConfig,            // Prompt configuration\n",
        "    kernel                    // SK instance\n",
        ");"
    ]
}

```

```

    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "Let's transform the prompt template into a function that the kernel can
execute:"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
      "metadata": {
        "dotnet_interactive": {
          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        }
      },
      "outputs": [],
      "source": [
        "var functionConfig = new SemanticFunctionConfig(promptConfig,
promptTemplate);\n",
        "\n",
        "var summaryFunction = kernel.RegisterSemanticFunction(\"MySkill\",
\"Summary\", functionConfig);"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "Set up some content to summarize, here's an extract about Demo, an
ancient Greek poet, taken from Wikipedia (https://en.wikipedia.org/wiki/
Demo\_\(ancient\_Greek\_poet\))."

```

```

"dotnet_interactive": {
  "language": "csharp"
},
"polyglot_notebook": {
  "kernelName": "csharp"
}
},
"outputs": [],
"source": [
  "var input = \"\\\"\\\"\\\"\\n\",
  "Demo (ancient Greek poet)\\n\",
  "From Wikipedia, the free encyclopedia\\n\",
  "Demo or Damo (Greek: Δῆμο; Δῆμη; fl. c. AD 200) was a Greek woman of the Roman
period, known for a single epigram, engraved upon the Colossus of Memnon,
which bears her name. She speaks of herself therein as a lyric poetess
dedicated to the Muses, but nothing is known of her life.[1]\\n\",
  "Identity\\n\",
  "Demo was evidently Greek, as her name, a traditional epithet of Demeter,
signifies. The name was relatively common in the Hellenistic world, in Egypt
and elsewhere, and she cannot be further identified. The date of her visit to
the Colossus of Memnon cannot be established with certainty, but internal
evidence on the left leg suggests her poem was inscribed there at some point
in or after AD 196.[2]\\n\",
  "Epigram\\n\",
  "There are a number of graffiti inscriptions on the Colossus of Memnon.
Following three epigrams by Julia Balbilla, a fourth epigram, in elegiac
couplets, entitled and presumably authored by \"Demo\" or \"Damo\" (the Greek
inscription is difficult to read), is a dedication to the Muses.[2] The poem
is traditionally published with the works of Balbilla, though the internal
evidence suggests a different author.[1]\\n\",
  "In the poem, Demo explains that Memnon has shown her special respect. In
return, Demo offers the gift for poetry, as a gift to the hero. At the end of
this epigram, she addresses Memnon, highlighting his divine status by
recalling his strength and holiness.[2]\\n\",
  "Demo, like Julia Balbilla, writes in the artificial and poetic Aeolic
dialect. The language indicates she was knowledgeable in Homeric poetry
-'bearing a pleasant gift', for example, alludes to the use of that phrase
throughout the Iliad and Odyssey.[a][2] \\n\",
  \"\\\"\\\"\\\"\\\";\"
]
},
{
  "attachments": {},
  "cell_type": "markdown",

```

```

    "metadata": {},
    "source": [
        "...and run the summary function:"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "var summary = await summaryFunction.InvokeAsync(input);\n",
        "\n",
        "Console.WriteLine(summary);"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "The code above shows all the steps, to understand how the function is  

        composed step by step. However, the kernel\n",
        "includes also some helpers to achieve the same more concisely.\n",
        "\n",
        "The same function above can be created with less code:"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },

```

```

    }
  },
  "outputs": [],
  "source": [
    "string skPrompt = \"\\\"\\\"\\\"\\\"\\n\",
    \"{{${input}}}\\n\",
    \"\\n\",
    \"Summarize the content above.\\n\",
    \"\\\"\\\"\\\";\\n\",
    \"var summaryFunction = kernel.CreateSemanticFunction(skPrompt, maxTokens:
2000, temperature: 0.2, topP: 0.5);\\n\",
    \"\\n\",
    \"var summary = await summaryFunction.InvokeAsync(input);\\n\",
    \"Console.WriteLine(summary);\"
  ]
},
{
  \"attachments\": {},
  \"cell_type\": \"markdown\",
  \"metadata\": {},
  \"source\": [
    \"Here's one more example of how to write an inline Semantic Function that
gives a TLDR for a piece of text.\\n\",
    \"\\n\",
    \"\\n\"
  ]
},
{
  \"cell_type\": \"code\",
  \"execution_count\": null,
  \"metadata\": {
    \"dotnet_interactive\": {
      \"language\": \"csharp\"
    },
    \"polyglot_notebook\": {
      \"kernelName\": \"csharp\"
    },
    \"tags\": []
  },
  \"outputs\": [],
  \"source\": [
    \"var builder = new KernelBuilder();\\n\",
    \"\\n\",
    \"var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =

```

```

Settings.LoadFromFile();\n",
    "\n",
    "if (useAzureOpenAI)\n",
    "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
\n",
    "else\n",
    "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
    "\n",
    "var kernel = builder.Build();\n",
    "\n",
    "string skPrompt = @\"\n",
    "{{ $input }}\n",
    "\n",
    "Give me the TLDR in 5 words.\n",
    "\";\n",
    "\n",
    "var textToSummarize = @\"\n",
    "    1) A robot may not injure a human being or, through inaction,\n",
    "    allow a human being to come to harm.\n",
    "\n",
    "    2) A robot must obey orders given it by human beings except where\n",
    "    such orders would conflict with the First Law.\n",
    "\n",
    "    3) A robot must protect its own existence as long as such\n",
    "protection\n",
    "    does not conflict with the First or Second Law.\n",
    "\";\n",
    "\n",
    "var tldrFunction = kernel.CreateSemanticFunction(skPrompt, maxTokens:
200, temperature: 0, topP: 0.5);\n",
    "\n",
    "var summary = await tldrFunction.InvokeAsync(textToSummarize);\n",
    "\n",
    "Console.WriteLine(summary);\n",
    "\n",
    "// Output => Robots must not harm humans."
]
}
],
"metadata": {
    "kernelSpec": {
        "display_name": ".NET (C#)",
        "language": "C#",
        "name": ".net-csharp"
    }
}

```

```
},
"language_info": {
  "name": "polyglot-notebook"
},
"polyglot_notebook": {
  "kernelInfo": {
    "defaultKernelName": "csharp",
    "items": [
      {
        "aliases": [],
        "name": "csharp"
      }
    ]
  }
},
"nbformat": 4,
"nbformat_minor": 2
}
```


dotnet/04-context-variables-chat.ipynb

```
{
  "cells": [
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# Creating a basic chat experience with context variables\n",
        "\n",
        "In this example, we show how you can build a simple chat bot by sending\n",
        "and updating context with your requests. \n",
        "\n",
        "We introduce the Context Variables object which in this demo functions\n",
        "similarly as a key-value store that you can use when running the kernel.\n",
        "\n",
        "The context is local (i.e. in your computer's RAM) and not persisted\n",
        "anywhere beyond the life of this Jupyter session.\n",
        "\n",
        "In future examples, we will show how to persist the context on disk so\n",
        "that you can bring it into your applications. \n",
        "\n",
        "In this chat scenario, as the user talks back and forth with the bot,\n",
        "the context gets populated with the history of the conversation. During each\n",
        "new run of the kernel, the context can provide the AI with its variables'\n",
        "content. "
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
      "metadata": {
        "dotnet_interactive": {
          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        },
        "vscode": {
          "languageId": "polyglot-notebook"
        }
      },
      "source": [
        "outputs": [],

```

```

"source": [
  "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\\\"\\n\",
  \"#!import config/Settings.cs\\n\",
  \"\\n\",
  \"using Microsoft.SemanticKernel;\\n\",
  \"using Microsoft.SemanticKernel.SemanticFunctions;\\n\",
  \"using Microsoft.SemanticKernel.Orchestration;\\n\",
  \"\\n\",
  \"var builder = new KernelBuilder();\\n\",
  \"\\n\",
  \"// Configure AI backend used by the kernel\\n\",
  \"var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\\n\",
  \"if (useAzureOpenAI)\\n\",
  \"    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);
\\n\",
  \"else\\n\",
  \"    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\\n\",
  \"\\n\",
  \"IKernel kernel = builder.Build();\"
]
},
{
  \"attachments\": {},
  \"cell_type\": \"markdown\",
  \"metadata\": {},
  \"source\": [
    \"Let's define a prompt outlining a dialogue chat bot.\"
  ]
},
{
  \"cell_type\": \"code\",
  \"execution_count\": null,
  \"metadata\": {
    \"dotnet_interactive\": {
      \"language\": \"csharp\"
    },
    \"polyglot_notebook\": {
      \"kernelName\": \"csharp\"
    },
    \"vscode\": {
      \"languageId\": \"polyglot-notebook\"
    }
  },
  \"source\": [
    \"Let's define a prompt outlining a dialogue chat bot.\"
  ]
}

```

```

"outputs": [],
"source": [
    "const string skPrompt = @"\n",
    "ChatBot can have a conversation with you about any topic.\n",
    "It can give explicit instructions or say 'I don't know' if it does not
have an answer.\n",
    "\n",
    "{{${history}}}\n",
    "User: {{${userInput}}}\n",
    "ChatBot:\n";\n",
    "\n",
    "var promptConfig = new PromptTemplateConfig\n",
    "{\n",
    "    Completion =\n",
    "    {\n",
    "        MaxTokens = 2000,\n",
    "        Temperature = 0.7,\n",
    "        TopP = 0.5,\n",
    "    }\n",
    "};"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Register your semantic function"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },

```

```

    "outputs": [],
    "source": [
        "var promptTemplate = new PromptTemplate(skPrompt, promptConfig, kernel);
\n",
        "var functionConfig = new SemanticFunctionConfig(promptConfig,
promptTemplate);\n",
        "var chatFunction = kernel.RegisterSemanticFunction(\"ChatBot\",
\n\"Chat\", functionConfig);"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Initialize your context"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [
        "var context = kernel.CreateNewContext();\n",
        "\n",
        "var history = \"\";\n",
        "context[\"history\"] = history;"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},

```

```

    "source": [
      "Chat with the Bot"
    ]
  },
  {
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
      "dotnet_interactive": {
        "language": "csharp"
      },
      "polyglot_notebook": {
        "kernelName": "csharp"
      },
      "vscode": {
        "languageId": "polyglot-notebook"
      }
    },
    "outputs": [],
    "source": [
      "var userInput = \"Hi, I'm looking for book suggestions\";\n",
      "context[\"userInput\"] = userInput;\n",
      "\n",
      "var bot_answer = await chatFunction.InvokeAsync(context);"
    ]
  },
  {
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
      "Update the history with the output"
    ]
  },
  {
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
      "dotnet_interactive": {
        "language": "csharp"
      },
      "polyglot_notebook": {
        "kernelName": "csharp"
      }
    },
    "outputs": [],

```

```

    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "history += $\"\\nUser: {userInput}\\nMelody: {bot_answer}\\n\";\n",
    "context.Variables.Update(history);\n",
    "\n",
    "Console.WriteLine(context);"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "Keep Chatting!"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "Func<string, Task> Chat = async (string input) => {\n",
    "    // Save new message in the context variables\n",
    "    context[\"userInput\"] = input;\n",
    "    \n",
    "    // Process the user message and get an answer\n",
    "    var answer = await chatFunction.InvokeAsync(context);\n",
    "    \n",
    "    // Append the new interaction to the chat history\n",

```

```

        history += $"\nUser: {input}\nMelody: {answer}\n\n"; \n",
        context["history"] = history;\n",
        \n",
        // Show the response\n",
        Console.WriteLine(context);\n",
    };
}
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [
        "await Chat(\"I would like a non-fiction book suggestion about Greece\n",
        "history. Please only list one book.\");"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        },
        "vscode": {
            "languageId": "polyglot-notebook"
        }
    },
    "outputs": [],
    "source": [

```

```

    "await Chat(\"that sounds interesting, what are some of the topics I will
learn about?\");"
  ],
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "await Chat(\"Which topic from the ones you listed do you think most
people find interesting?\");"
  ],
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "await Chat(\"could you list some more books I could read about the
topic(s) you mentioned?\");"
  ],
},

```



```

{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "After chatting for a while, we have built a growing history, which we
are attaching to each prompt and which contains the full conversation. Let's
take a look!"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
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      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    },
    "vscode": {
      "languageId": "polyglot-notebook"
    }
  },
  "outputs": [],
  "source": [
    "Console.WriteLine(context[\"history\"]);"
  ]
},
],
"metadata": {
  "kernelspec": {
    "display_name": ".NET (C#)",
    "language": "C#",
    "name": ".net-csharp"
  },
  "language_info": {
    "file_extension": ".cs",
    "mimetype": "text/x-csharp",
    "name": "C#",
    "pygments_lexer": "csharp",
    "version": "11.0"
  },
  "polyglot_notebook": {

```

```
"kernelInfo": {  
  "defaultKernelName": "csharp",  
  "items": [  
    {  
      "aliases": [],  
      "name": "csharp"  
    }  
  ]  
}  
},  
"nbformat": 4,  
"nbformat_minor": 2  
}
```

dotnet/05-using-the-planner.ipynb

```
{
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    {
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      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# Introduction to the Planner\n",
        "\n",
        "The Planner is one of the fundamental concepts of the Semantic Kernel.  
It makes use of the collection of skills that have been registered to the  
kernel and using AI, will formulate a plan to execute a given ask.\n",
        "\n",
        "Read more about it [here](https://aka.ms/sk/concepts/planner).\"
      ]
    },
    {
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      "execution_count": null,
      "metadata": {
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          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        }
      },
      "outputs": [],
      "source": [
        "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\"\n",
        "\n",
        "//!import config/Settings.cs\n",
        "//!import config/Utils.cs\n",
        "\n",
        "using Microsoft.SemanticKernel;\n",
        "using Microsoft.SemanticKernel.Skills.Core;\n",
        "using Microsoft.SemanticKernel.Orchestration;\n",
        "using Microsoft.SemanticKernel.Planning;\n",
        "using Microsoft.SemanticKernel.Planning.Sequential;\n",
        "\n",
        "var builder = new KernelBuilder();\n",
        "\n",

```

```

        "// Configure AI backend used by the kernel\n",
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
        "\n",
        "if (useAzureOpenAI)\n",
        "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
        "\n",
        "else\n",
        "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
        "\n",
        "var kernel = builder.Build();"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "### Setting Up the Planner\n",
        "The planner is located in the Semantic Kernel's CoreSkills and requires
Orchestration"
    ]
},
{
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        },
        "polyglot_notebook": {
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        }
    },
    "outputs": [],
    "source": [
        "// Load native skill into the kernel registry, sharing its functions
with prompt templates\n",
        "var planner = new SequentialPlanner(kernel);"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",

```

```

    "metadata": {},
    "source": [
        "### Providing skills to the planner\n",
        "The planner needs to know what skills are available to it. Here we'll
give it access to the `SummarizeSkill` and `WriterSkill` we have defined on
disk."
    ]
},
{
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            "language": "csharp"
        },
        "polyglot_notebook": {
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        }
    },
    "outputs": [],
    "source": [
        "var skillsDirectory =
Path.Combine(System.IO.Directory.GetCurrentDirectory(), @"..\\", @"..\\",
@"skills\");\n",
        "kernel.ImportSemanticSkillFromDirectory(skillsDirectory,
@"SummarizeSkill\");\n",
        "kernel.ImportSemanticSkillFromDirectory(skillsDirectory,
@"WriterSkill\");"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Define your ASK. What do you want the Kernel to do?"
    ]
},
{
    "cell_type": "code",
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    "metadata": {
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        }
    }
}

```

```

    },
    "polyglot_notebook": {
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    }
},
"outputs": [],
"source": [
    "var ask = \"Tomorrow is Valentine's day. I need to come up with a few
date ideas. My significant other likes poems so write them in the form of a
poem.\";\n",
    "var originalPlan = await planner.CreatePlanAsync(ask);\n",
    "\n",
    "Console.WriteLine(\"Original plan:\\n\\n\");\n",
    "Console.WriteLine(JsonSerializer.Serialize(originalPlan, new
JsonSerializerOptions { WriteIndented = true }));"
]
},
{
    "attachments": {},
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    "metadata": {},
    "source": [
        "As you can see in the above plan, the Planner has taken the user's ask
and converted it into a Plan object detailing how the AI would go about
solving this task.\n",
        "\n",
        "It makes use of the skills that the Kernel has available to it and
determines which functions to call in order to fulfill the user's ask.\n",
        "\n",
        "The output of each step of the plan gets set as `setContextVariable`
which makes it available as `input` to the next skill."
    ]
},
{
    "attachments": {},
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    "metadata": {},
    "source": [
        "Let's also define an inline skill and have it be available to the
Planner.\n",
        "Be sure to give it a function name and skill name."
    ]
}

```

```

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},
"outputs": [],
"source": [
  "string skPrompt = \"\\\"\\\"\\\"\\\"\\n\",
  \"{{${input}}}\\n\",
  \"\\n\",
  \"Rewrite the above in the style of Shakespeare.\\n\",
  \"\\\"\\\"\\\"\\\";\\n\",
  \"var shakespeareFunction = kernel.CreateSemanticFunction(skPrompt,
\\\"shakespeare\\\", \\\"ShakespeareSkill\\\", maxTokens: 2000, temperature: 0.2,
topP: 0.5);\"
]
},
{
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  "metadata": {},
  "source": [
    \"Let's update our ask using this new skill.\"
  ]
},
{
  "cell_type": "code",
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  "metadata": {
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      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    \"var ask = @\\\"Tomorrow is Valentine's day. I need to come up with a few

```

```

date ideas.\n",
    "She likes Shakespeare so write using his style. Write them in the form
of a poem.\";\n",
    "\n",
    "var newPlan = await planner.CreatePlanAsync(ask);\n",
    "\n",
    "Console.WriteLine(\"Updated plan:\\n\");\n",
    "Console.WriteLine(JsonSerializer.Serialize(newPlan, new
JsonSerializerOptions { WriteIndented = true }));"
    ]
},
{
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    "metadata": {},
    "source": [
        "### Executing the plans\n",
        "\n",
        "Now that we have different plans, let's try to execute them! The Kernel
can execute the plan using RunAsync."
    ]
},
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        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "var originalPlanResult = await originalPlan.InvokeAsync();\n",
        "\n",
        "Console.WriteLine(\"Original Plan results:\\n\");\n",
        "Console.WriteLine(Utils.WordWrap(originalPlanResult.Result, 100));"
    ]
},
{
    "attachments": {},
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```



```

    "metadata": {},
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        "Now lets execute and print the new plan:"
    ]
},
{
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        },
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        }
    },
    "outputs": [],
    "source": [
        "var newPlanResult = await kernel.RunAsync(newPlan);\n",
        "Console.WriteLine(\"New Plan results:\\n\\n\");\n",
        "Console.WriteLine(newPlanResult.Result);"
    ]
}
],
"metadata": {
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        "language": "C#",
        "name": ".net-csharp"
    },
    "language_info": {
        "name": "polyglot-notebook"
    },
    "polyglot_notebook": {
        "kernelInfo": {
            "defaultKernelName": "csharp",
            "items": [
                {
                    "aliases": [],
                    "name": "csharp"
                }
            ]
        }
    }
}

```

```
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}
```

dotnet/06-memory-and-embeddings.ipynb

```
{
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      "metadata": {},
      "source": [
        "# Building Semantic Memory with Embeddings\n",
        "\n",
        "So far, we've mostly been treating the kernel as a stateless  
orchestration engine.\n",
        "We send text into a model API and receive text out. \n",
        "\n",
        "In a [previous notebook](04-context-variables-chat.ipynb), we used  
`context variables` to pass in additional\n",
        "text into prompts to enrich them with more context. This allowed us to  
create a basic chat experience. \n",
        "\n",
        "However, if you solely relied on context variables, you would quickly  
realize that eventually your prompt\n",
        "would grow so large that you would run into a the model's token limit.  
What we need is a way to persist state\n",
        "and build both short-term and long-term memory to empower even more  
intelligent applications. \n",
        "\n",
        "To do this, we dive into the key concept of `Semantic Memory` in the  
Semantic Kernel. "
      ]
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        },
        "polyglot_notebook": {
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        }
      },
      "source": [
        "outputs": [],
        "source": [
```

```

    "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\\\"\\n\",
    "#r \"nuget: System.Linq.Async, 6.0.1\\\"\\n\",
    \"\\n\",
    \"#!import config/Settings.cs\\n\",
    \"\\n\",
    \"using Microsoft.SemanticKernel;\\n\",
    \"using Microsoft.SemanticKernel.SemanticFunctions;\\n\",
    \"using Microsoft.SemanticKernel.Orchestration;\"
  ]
},
{
  \"attachments\": {},
  \"cell_type\": \"markdown\",
  \"metadata\": {},
  \"source\": [
    \"In order to use memory, we need to instantiate the Kernel with a Memory
Storage\\n\",
    \"and an Embedding backend. In this example, we make use of the
`VolatileMemoryStore`\\n\",
    \"which can be thought of as a temporary in-memory storage (not to be
confused with Semantic Memory).\\n\",
    \"\\n\",
    \"This memory is not written to disk and is only available during the app
session.\\n\",
    \"\\n\",
    \"When developing your app you will have the option to plug in persistent
storage\\n\",
    \"like Azure Cosmos Db, PostgreSQL, SQLite, etc. Semantic Memory allows
also to index\\n\",
    \"external data sources, without duplicating all the information, more on
that later.\"
  ]
},
{
  \"cell_type\": \"code\",
  \"execution_count\": null,
  \"metadata\": {
    \"dotnet_interactive\": {
      \"language\": \"csharp\"
    },
    \"polyglot_notebook\": {
      \"kernelName\": \"csharp\"
    }
  }
},

```

```

"outputs": [],
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    "using Microsoft.SemanticKernel.Memory;\n",
    "\n",
    "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
    "\n",
    "var builder = new KernelBuilder();\n",
    "\n",
    "if (useAzureOpenAI)\n",
    "{\n",
    "    builder.WithAzureTextEmbeddingGenerationService(\"text-embedding-
ada-002\", azureEndpoint, apiKey);\n",
    "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);
\n",
    "}\n",
    "else\n",
    "{\n",
    "    builder.WithOpenAITextEmbeddingGenerationService(\"text-embedding-
ada-002\", apiKey);\n",
    "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
    "}\n",
    "\n",
    "builder.WithMemoryStorage(new VolatileMemoryStore());\n",
    "\n",
    "var kernel = builder.Build();"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "At its core, Semantic Memory is a set of data structures that allow you
to store\n",
        "the meaning of text that come from different data sources, and
optionally to store\n",
        "the source text too.\n",
        "\n",
        "These texts can be from the web, e-mail providers, chats, a database, or
from your\n",
        "local directory, and are hooked up to the Semantic Kernel through data
source connectors.\n",
        "\n"
    ]
}

```

```

    "The texts are embedded or compressed into a vector of floats
representing mathematically\n",
    "the texts' contents and meaning.\n",
    "\n",
    "You can read more about embeddings [here](https://aka.ms/sk/embeddings)."
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "### Manually adding memories\n",
        "Let's create some initial memories \"About Me\". We can add memories to
our `VolatileMemoryStore` by using `SaveInformationAsync`"
    ]
},
{
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            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "const string MemoryCollectionName = \"aboutMe\";\n",
        "\n",
        "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info1\", text: \"My name is Andrea\");\n",
        "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info2\", text: \"I currently work as a tourist operator\");\n",
        "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info3\", text: \"I currently live in Seattle and have been living there
since 2005\");\n",
        "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info4\", text: \"I visited France and Italy five times since 2015\");\n",
        "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info5\", text: \"My family is from New York\");"
    ]
}

```

```

    },
    {
        "attachments": {},
        "cell_type": "markdown",
        "metadata": {},
        "source": [
            "Let's try searching the memory:"
        ]
    },
    {
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        "metadata": {
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                "language": "csharp"
            },
            "polyglot_notebook": {
                "kernelName": "csharp"
            }
        },
        "outputs": [],
        "source": [
            "var questions = new[]\n",
            "{\n",
            "    \"what is my name?\",\n",
            "    \"where do I live?\",\n",
            "    \"where is my family from?\",\n",
            "    \"where have I travelled?\",\n",
            "    \"what do I do for work?\",\n",
            "};\n",
            "\n",
            "foreach (var q in questions)\n",
            "{\n",
            "    var response = await kernel.Memory.SearchAsync(MemoryCollectionName,\n",
            q).FirstOrDefaultAsync();\n",
            "    Console.WriteLine(q + \" \" + response?.Metadata.Text);\n",
            "}"
        ]
    },
    {
        "attachments": {},
        "cell_type": "markdown",
        "metadata": {},
        "source": [

```

"Let's now revisit our chat sample from the [previous notebook](04-context-variables-chat.ipynb).\n",

"If you remember, we used context variables to fill the prompt with a `history` that continuously got populated as we chatted with the bot. Let's add also memory to it!"

```
    ]
  },
  {
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
      "This is done by using the `TextMemorySkill` which exposes the `recall` native function.\n",
      "\n",
      "`recall` takes an input ask and performs a similarity search on the contents that have\n",
      "been embedded in the Memory Store. By default, `recall` returns the most relevant memory."
    ]
  },
```

```
{
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  "metadata": {
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    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "using Microsoft.SemanticKernel.CoreSkills;\n",
    "\n",
    "// TextMemorySkill provides the \"recall\" function\n",
    "kernel.ImportSkill(new TextMemorySkill());"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
```



```

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    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "const string skPrompt = @"\n",
    "ChatBot can have a conversation with you about any topic.\n",
    "It can give explicit instructions or say 'I don't know' if it does not
have an answer.\n",
    "\n",
    "Information about me, from previous conversations:\n",
    "- {{$fact1}} {{recall $fact1}}\n",
    "- {{$fact2}} {{recall $fact2}}\n",
    "- {{$fact3}} {{recall $fact3}}\n",
    "- {{$fact4}} {{recall $fact4}}\n",
    "- {{$fact5}} {{recall $fact5}}\n",
    "\n",
    "Chat:\n",
    "{{$history}}\n",
    "User: {{$userInput}}\n",
    "ChatBot: \";\n",
    "\n",
    "var chatFunction = kernel.CreateSemanticFunction(skPrompt, maxTokens:
200, temperature: 0.8);"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "The `RelevanceParam` is used in memory search and is a measure of the
relevance score from 0.0 to 1.0, where 1.0 means a perfect match. We
encourage users to experiment with different values."
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {

```

```

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},
"polyglot_notebook": {
  "kernelName": "csharp"
}
},
"outputs": [],
"source": [
  "var context = kernel.CreateNewContext();\n",
  "\n",
  "context[\"fact1\"] = \"what is my name?\";\n",
  "context[\"fact2\"] = \"where do I live?\";\n",
  "context[\"fact3\"] = \"where is my family from?\";\n",
  "context[\"fact4\"] = \"where have I travelled?\";\n",
  "context[\"fact5\"] = \"what do I do for work?\";\n",
  "\n",
  "context[TextMemorySkill.CollectionParam] = MemoryCollectionName;\n",
  "context[TextMemorySkill.RelevanceParam] = \"0.8\";"
]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "Now that we've included our memories, let's chat!"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
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      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "var history = \"\";\n",
    "context[\"history\"] = history;\n",

```

```

"Func<string, Task> Chat = async (string input) => {\n",
"    // Save new message in the context variables\n",
"    context[\"userInput\"] = input;\n",
"\n",
"    // Process the user message and get an answer\n",
"    var answer = await chatFunction.InvokeAsync(context);\n",
"\n",
"    // Append the new interaction to the chat history\n",
"    history += $\"\\nUser: {input}\\nChatBot: {answer}\\n\";\n",
"    context[\"history\"] = history;\n",
"    \n",
"    // Show the bot response\n",
"    Console.WriteLine(\"ChatBot: \" + context);\n",
"};\n"
]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
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        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "await Chat(\"Hello, I think we've met before, remember? my name is...\n\");\n"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],

```

```

    "outputs": [],
    "source": [
        "await Chat(\"I want to plan a trip and visit my family. Do you know\nwhere that is?\");\"
    ]
},
{
    "cell_type": "code",
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    "metadata": {
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            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "await Chat(\"Great! What are some fun things to do there?\");\"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        \"### Adding documents to your memory\\n\",
        \"\\n\",
        \"Many times in your applications you'll want to bring in external\n documents into your memory. Let's see how we can do this using our\n VolatileMemoryStore.\\n\",
        \"\\n\",
        \"Let's first get some data using some of the links in the Semantic Kernel\n repo.\"
    ]
},
{
    "cell_type": "code",
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    "metadata": {
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        }
    },

```

```

    "polyglot_notebook": {
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    }
  },
  "outputs": [],
  "source": [
    "const string memoryCollectionName = \"SKGitHub\";\n",
    "\n",
    "var githubFiles = new Dictionary<string, string>()\n",
    "{\n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/README.md\"]\n",
    "    = \"README: Installation, getting started, and how to\n",
    "    contribute\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/samples/notebooks/dotnet/02-running-prompts-from-file.ipynb\"]\n",
    "    = \"Jupyter notebook describing how to pass prompts from a file\n",
    "    to a semantic skill or function\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/samples/notebooks/dotnet/00-getting-started.ipynb\"]\n",
    "    = \"Jupyter notebook describing how to get started with the\n",
    "    Semantic Kernel\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/tree/main/samples/skills/ChatSkill/ChatGPT\"]\n",
    "    = \"Sample demonstrating how to create a chat skill interfacing\n",
    "    with ChatGPT\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/dotnet/src/SemanticKernel/Memory/Volatile/VolatileMemoryStore.cs\"]\n",
    "    = \"C# class that defines a volatile embedding store\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/tree/main/samples/dotnet/KernelHttpServer/README.md\"]\n",
    "    = \"README: How to set up a Semantic Kernel Service API using\n",
    "    Azure Function Runtime v4\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/tree/main/samples/apps/chat-summary-webapp-react/README.md\"]\n",
    "    = \"README: README associated with a sample starter react-based\n",
    "    chat summary webapp\", \n",
    "  };\n",
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    "var builder = new KernelBuilder();\n",
    "\n",
    "if (useAzureOpenAI)\n",
    "{\n",
    "    builder.WithAzureTextEmbeddingGenerationService(\"text-embedding-ada-002\", azureEndpoint, apiKey);\n",
    "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
    "}\n",
    "else\n",
    "{\n",
    "    builder.WithOpenAITextEmbeddingGenerationService(\"text-embedding-ada-002\", apiKey);\n",
    "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
    "}\n",
    "\n",
    "builder.WithMemoryStorage(new VolatileMemoryStore());\n",
    "\n",
    "var kernel = builder.Build();"
  ]
},
{
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  "cell_type": "markdown",
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    "Now let's add these files to our VolatileMemoryStore using `SaveReferenceAsync`."
  ]
}

```

```

    ]
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      "Console.WriteLine(\"Adding some GitHub file URLs and their descriptions
to a volatile Semantic Memory.\");\n",
      "var i = 0;\n",
      "foreach (var entry in githubFiles)\n",
      "{\n",
      "    await kernel.Memory.SaveReferenceAsync(\n",
      "        collection: memoryCollectionName,\n",
      "        description: entry.Value,\n",
      "        text: entry.Value,\n",
      "        externalId: entry.Key,\n",
      "        externalSourceName: \"GitHub\"\n",
      "    );\n",
      "    Console.WriteLine($\"    URL {++i} saved\");\n",
      "}"
    ]
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```

```

        "string ask = \"I love Jupyter notebooks, how should I get started?\";\n",
        "Console.WriteLine(\"=====\n\" +\n",
        "        \"Query: \" + ask + \"\\n\");\n",
        "\n",
        "var memories = kernel.Memory.SearchAsync(memoryCollectionName, ask,
limit: 5, minRelevanceScore: 0.77);\n",
        "\n",
        "i = 0;\n",
        "await foreach (MemoryQueryResult memory in memories)\n",
        "{\n",
        "    Console.WriteLine($\"Result {++i}:\");\n",
        "    Console.WriteLine(\"    URL:      : \" + memory.Metadata.Id);\n",
        "    Console.WriteLine(\"    Title     : \" + memory.Metadata.Description);\n",
        "\n",
        "    Console.WriteLine(\"    Relevance: \" + memory.Relevance);\n",
        "    Console.WriteLine();\n",
        "}"
    ]
},
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    "cell_type": "markdown",
    "metadata": {},
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        "Now you might be wondering what happens if you have so much data that it
doesn't fit into your RAM? That's where you want to make use of an external
Vector Database made specifically for storing and retrieving embeddings.\n",
        "\n",
        "Stay tuned for that!"
    ]
}
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```



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dotnet/07-DALL-E-2.ipynb

```
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        "# Generating images with AI\n",
        "\n",
        "This notebook demonstrates how to use OpenAI DALL-E 2 to generate images, in combination with other LLM features like text and embedding generation.\n",
        "\n",
        "Here, we use Text Generation to generate a random image description and DALL-E 2 to create an image from that description, showing the image inline.\n",
        "\n",
        "Lastly, the notebook asks the user to describe the image. The embedding of the user's description is compared to the original description, using Cosine Similarity, and returning a score from 0 to 1, where 1 means exact match."
      ]
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        }
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        "// Usual setup: importing Semantic Kernel SDK and SkiaSharp, used to display images inline.\n",

```

```

"\n",
"#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\"\n",
"#r \"nuget: SkiaSharp, 2.88.3\"\n",
"\n",
"#!import config/Settings.cs\n",
"#!import config/Utils.cs\n",
"#!import config/SkiaUtils.cs\n",
"\n",
"using Microsoft.SemanticKernel;\n",
"using Microsoft.SemanticKernel.AI.ImageGeneration; \n",
"using Microsoft.SemanticKernel.AI.Embeddings;\n",
"using Microsoft.SemanticKernel.AI.Embeddings.VectorOperations;"
]
},
{
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  "metadata": {},
  "source": [
    "# Setup, using three AI services: images, text, embedding\n",
    "\n",
    "The notebook uses:\n",
    "\n",
    "**text-davinci-003** to generate a random image description\n",
    "**OpenAI Dall-E 2** to transform the image description into an\n",
    "image\n",
    "**text-embedding-ada-002** to compare your guess against the real\n",
    "image description"
  ]
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},

```

```

    "outputs": [],
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        "// Load OpenAI credentials from config/settings.json\n",
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
        "\n",
        "// Configure the three AI features: text embedding (using Ada), text
completion (using DaVinci 3), image generation (DALL-E 2)\n",
        "var kernel = new KernelBuilder()\n",
        "    .WithOpenAITextEmbeddingGenerationService(\"text-embedding-
ada-002\", apiKey)\n",
        "    .WithOpenAITextCompletionService(\"text-davinci-003\", apiKey,
orgId)\n",
        "    .WithOpenAIImageGenerationService(apiKey, orgId)\n",
        "    .Build();\n",
        "\n",
        "// Get AI service instance used to generate images\n",
        "var dalle = kernel.GetService<IImageGeneration>();\n",
        "\n",
        "// Get AI service instance used to extract embedding from a text\n",
        "var textEmbedding = kernel.GetService<ITextEmbeddingGeneration>();"
    ]
},
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        "# Generate a (random) image with DALL-E 2\n",
        "\n",
        "***genImgDescription** is a Semantic Function used to generate a random
image description. \n",
        "The function takes in input a random number to increase the diversity of
its output.\n",
        "\n",
        "The random image description is then given to **Dall-E 2** asking to
create an image."
    ]
},
{
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```

```
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div>\"

```
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  "// Create a semantic function that generate a random image description.
\n",
  "var genImgDescription = kernel.CreateSemanticFunction(\n",
  "  \"Think about an artificial object correlated to number {{$input}}.\n",
  "\" +\n",
  "  \"Describe the image with one detailed sentence. The description\n",
  "cannot contain numbers.\", \n",
  "  \"  maxTokens: 256, temperature: 1);\n",
  "\"\n",
  "var random = new Random().Next(0, 200);\n",
  "var imageDescription = await genImgDescription.InvokeAsync($\n",
  "\"{random}\");\n",
  "\"\n",
  "// Use DALL-E 2 to generate an image. OpenAI in this case returns a URL\n",
  "(though you can ask to return a base64 image)\n",
  "var imageUrl = await\n",
  "dalle.GenerateImageAsync(imageDescription.Result.Trim(), 512, 512);\n",
  "\"\n",
  "await SkiaUtils.ShowImage(imageUrl, 512, 512);\"
]
```



```

},
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  "metadata": {},
  "source": [
    "# Let's play a guessing game\n",
    "\n",
    "Try to guess what the image is about, describing the content.\n",
    "\n",
    "You'll get a score at the end Ø=Ï "
  ]
},
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    }
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  "outputs": [
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        "Your description:\n",
        "a blue and yellow toy ca over a squared blue and yellow surface\n",
        "\n",
        "\n",
        "Real description:\n",
        "A bright yellow plastic toy car with a blue stripe down the side and a  

white star on the\n",
        "hood, sitting atop a checkered patterned rug.\n",
        "\n",
        "\n",
        "Score: 0.92\n",

```

```

        "\n",
        "\n"
    ]
}
],
"source": [
    "// Prompt the user to guess what the image is\n",
    "var guess = await InteractiveKernel.GetInputAsync(\"Describe the image\nin your words\");\n",
    "\n",
    "// Compare user guess with real description and calculate score\n",
    "var origEmbedding = await textEmbedding.GenerateEmbeddingsAsync(new\nList<string> { imageDescription.Result } );\n",
    "var guessEmbedding = await textEmbedding.GenerateEmbeddingsAsync(new\nList<string> { guess } );\n",
    "var similarity = origEmbedding.First().AsReadOnlySpan().CosineSimilarity(\nguessEmbedding.First().AsReadOnlySpan());\n",
    "\n",
    "Console.WriteLine($\"Your description:\\n{Utils.WordWrap(guess, 90)}\\n\\n);\n",
    "Console.WriteLine($\"Real description:\\n{Utils.WordWrap(imageDescription.Result.Trim(), 90)}\\n\\n);\n",
    "Console.WriteLine($\"Score: {similarity:0.00}\\n\\n\\n);\n",
    "\n",
    "//Uncomment this line to see the URL provided by OpenAI\n",
    "//Console.WriteLine(imageUrl);"
]
}
],
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```

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dotnet/08-chatGPT-with-DALL-E-2.ipynb

```
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        "# Using ChatGPT with the Semantic Kernel featuring DALL-E 2\n",
        "\n",
        "This notebook shows how to make use of the new ChatCompletion API from  

        OpenAI, popularized by ChatGPT. This API brings a new ChatML schema which is  

        different from the TextCompletion API that we've featured so far in other  

        notebooks. While the text completion API expects input a prompt and returns a  

        simple string, the chat completion API expects in input a Chat history and  

        returns a new message:\n",
        "\n",
        "```\n",
        "messages=[\n",
        "  { \"role\": \"system\", \"content\": \"You are a helpful  

        assistant.\"},\n",
        "  { \"role\": \"user\", \"content\": \"Who won the world series  

        in 2020?\"},\n",
        "  { \"role\": \"assistant\", \"content\": \"The Los Angeles Dodgers  

        won the World Series in 2020.\"},\n",
        "  { \"role\": \"user\", \"content\": \"Where was it played?\"}\n",
        "]\n",
        "```\n",
        "\n",
        "Note that there are three message types:\n",
        "\n",
        "1. A System message is used to give instructions to the chat model, e.g.  

        setting the context and the kind of conversation your app is offering.\n",
        "2. User messages store the data received from the user of your app.\n",
        "3. Assistant messages store the replies generated by the LLM model. \n",
        "\n",
        "Your app is responsible for adding information to the chat history and  

        maintaining this object. The Chat Completion API is stateless, and returns  

        only new messages, that your app can use, e.g. to execute commands, generate  

        images, or simply continue the conversation."
      ]
    }
  ]
}
```

```

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"source": [
    "When deciding between which one to use, know that ChatGPT models (i.e.
    gpt-3.5-turbo) are optimized for chat applications and have been fine-tuned
    for instruction-following and dialogue. As such, for creating semantic skills
    with the Semantic Kernel, users may still find the TextCompletion model
    better suited for certain use cases.\n",
    "\n",
    "The code below shows how to setup SK with ChatGPT, how to manage the
    Chat history object, and to make things a little more interesting asks
    ChatGPT to reply with image descriptions instead so we can have a dialog
    using images, leveraging DALL-E 2 integration."
]
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        },
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        }
    },
    "outputs": [],
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        "// Usual setup: importing Semantic Kernel SDK and SkiaSharp, used to
        display images inline.\n",
        "\n",
        "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\"\n",
        "#r \"nuget: SkiaSharp, 2.88.3\"\n",
        "\n",
        "#!import config/Settings.cs\n",
        "#!import config/Utils.cs\n",
        "#!import config/SkiaUtils.cs\n",
        "\n",
        "using Microsoft.SemanticKernel;\n",

```

```

        "using Microsoft.SemanticKernel.AI.ImageGeneration;\n",
        "using Microsoft.SemanticKernel.AI.ChatCompletion;"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "The notebook uses:\n",
        "\n",
        "** **OpenAI ChatGPT** to chat with the user\n",
        "** **OpenAI Dall-E 2** to transform messages into images"
    ]
},
{
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    "execution_count": null,
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        },
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    },
    "outputs": [],
    "source": [
        "// Load OpenAI credentials from config/settings.json\n",
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =  
Settings.LoadFromFile();\n",
        "\n",
        "// Configure the two AI features: OpenAI Chat and DALL-E 2 for image  
generation\n",
        "var kernel = new KernelBuilder()\n",
        "    .WithOpenAIChatCompletionService(\"gpt-3.5-turbo\", apiKey,  
orgId)\n",
        "    .WithOpenAIImageGenerationService(apiKey, orgId)\n",
        "    .Build();\n",
        "\n",
        "// Get AI service instance used to generate images

```

```

        "var dalle = kernel.GetService<IImageGeneration>();\n",
        "\n",
        "// Get AI service instance used to manage the user chat\n",
        "var chatGPT = kernel.GetService<IChatCompletion>();"
    ]
},
{
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        "# Chat configuration\n",
        "\n",
        "Before starting the chat, we create a new chat object with some
instructions, which are included in the chat history. \n",
        "\n",
        "The instructions tell OpenAI what kind of chat we want to have, in this
case we ask to reply with \"image descriptions\", so that we can chain
ChatGPT with DALL-E 2."
    ]
},
{
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    }
},
"outputs": [],
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    "using Microsoft.SemanticKernel.Connectors.AI.OpenAI.ChatCompletion;\n",
    "\n",
    "var systemMessage = \"You're chatting with a user. Instead of replying
directly to the user\"\n",
    "                    + \" provide a description of a cartoonish image that
expresses what you want to say.\"\n",

```

```

        "
            + \" The user won't see your message, they will see
only the image.\\\"\\n\",
        "
            + \" Describe the image with details in one sentence.
\\\";\\n\",
        \"\\n\",
        \"var chat = (OpenAIChatHistory)chatGPT.CreateNewChat(systemMessage);\"
    ]
},
{
    \"attachments\": {},
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    \"metadata\": {},
    \"source\": [
        \"# Let's chat\\n\",
        \"\\n\",
        \"Run the following code to start the chat. The chat consists of a loop
with these main steps:\\n\",
        \"\\n\",
        \"1. Ask the user (you) for a message. The user enters a message. Add the
user message into the Chat History object.\\n\",
        \"2. Send the chat object to AI asking to generate a response. Add the bot
message into the Chat History object.\\n\",
        \"3. Show the answer to the user. In our case before showing the answer,
generate an image and show that to the user too.\\n\",
        \"\\n\",
        \"*Note: to stop the chat in VS Code press ESC on the keyboard or the
\\\"stop\\\" button on the left side.*\"
    ]
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```



```
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    "\n",
    "Bot:\n"
  ]
},
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```

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```
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},
{
  "name": "stdout",
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```

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            "[An image of a person waving goodbye with a big smile, surrounded by
            colorful balloons and confetti falling from the sky.]\n",
            "\n"
        ]
    },
    ],
    "source": [
        "while (true)\n",
        "{\n",
        "    // 1. Ask the user for a message. The user enters a message. Add
        the user message into the Chat History object.\n",
        "    var userMessage = await InteractiveKernel.GetInputAsync(\"Your
        message\");\n",
        "    Console.WriteLine($\"User: {userMessage}\");\n",
        "    chat.AddUserMessage(userMessage);\n",
        "\n",
        "    // 2. Send the chat object to AI asking to generate a response. Add
        the bot message into the Chat History object.\n",
        "    string assistantReply = await chatGPT.GenerateMessageAsync(chat, new
        ChatRequestSettings());\n",
        "    chat.AddAssistantMessage(assistantReply);\n",
        "\n",
        "    // 3. Show the reply as an image\n",
        "    Console.WriteLine($\"\\nBot:\");\n",
        "    var imageUrl = await dalleE.GenerateImageAsync(assistantReply, 256,
        256);\n",
        "    await SkiaUtils.ShowImage(imageUrl, 256, 256);\n",
        "    Console.WriteLine($\"[{assistantReply}]\");\n",
        "}"
    ]
},
],
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        "language": "C#",
        "name": ".net-csharp"
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```

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```

dotnet/09-memory-with-chroma.ipynb

```
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      "metadata": {},
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        "# Building Semantic Memory with Embeddings\n",
        "\n",
        "In this notebook, we show how to use [Chroma](https://www.trychroma.com/) with Semantic Kernel to create even more\n",
        "intelligent applications. We assume that you are already familiar with the concepts of Semantic Kernel\n",
        "and memory. [Previously](04-context-variables-chat.ipynb), we have used `context variables` to pass\n",
        "additional text into prompts, enriching them with more context for a basic chat experience.\n",
        "\n",
        "However, relying solely on context variables has its limitations, such as the model's token limit.\n",
        "To overcome these limitations, we will use SK Semantic Memory, leveraging Chroma as a persistent\n",
        "Semantic Memory Storage.\n",
        "\n",
        "Chroma is an open-source embedding database designed to make it easy to build Language Model\n",
        "applications by making knowledge, facts, and skills pluggable for LLMs. It allows us to store and\n",
        "retrieve information in a way that can be easily utilized by the models, enabling both short-term\n",
        "and long-term memory for more advanced applications. In this notebook, we will showcase how to\n",
        "effectively use Chroma with the Semantic Kernel for a powerful application experience."
      ]
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      "execution_count": 1,
      "metadata": {
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          "language": "csharp"
        }
      }
    }
  ]
}
```



```

    },
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      "kernelName": "csharp"
    }
  },
  "outputs": [
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        "text/html": [
          "<div><div></div><div></div><div><strong>Installed Packages</strong><ul><li><span>Microsoft.SemanticKernel, 0.17.230629.1-preview</span></li><li><span>Microsoft.SemanticKernel.Connectors.Memory.Chroma, 0.17.230629.1-preview</span></li><li><span>System.Linq.Async, 6.0.1</span></li></ul></div></div>"
        ]
      },
      "metadata": {},
      "output_type": "display_data"
    }
  ],
  "source": [
    "#r \"nuget: Microsoft.SemanticKernel, 0.17.230629.1-preview\\\"\\n\",
    "#r \"nuget: Microsoft.SemanticKernel.Connectors.Memory.Chroma,
0.17.230629.1-preview\\\"\\n\",
    "#r \"nuget: System.Linq.Async, 6.0.1\\\"\\n\",
    "\\n\",
    "##!import config/Settings.cs\\n\",
    "\\n\",
    "using System;\\n\",
    "using System.Collections.Generic;\\n\",
    "using System.Linq;\\n\",
    "using System.Threading.Tasks;\\n\",
    "using Microsoft.SemanticKernel;\\n\",
    "using Microsoft.SemanticKernel.Connectors.Memory.Chroma;\\n\",
    "using Microsoft.SemanticKernel.Memory;"
  ]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "In order to use memory, we need to instantiate the Kernel with a Memory
Storage\\n",

```

```

        "and an Embedding backend. In this example, we make use of the
`ChromaMemoryStore`,\n",
        "leveraging [Chroma](https://www.trychroma.com/), an open source
embedding database\n",
        "you can run locally and in the cloud.\n",
        "\n",
        "To run Chroma locally, here's a quick script to download Chroma source
and run it using Docker:\n",
        "\n",
        "```shell\n",
        "git clone https://github.com/chroma-core/chroma.git\n",
        "cd chroma\n",
        "docker-compose up --build\n",
        "```\n",
    ]
},
{
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    "execution_count": 2,
    "metadata": {
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            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\n",
        "\n",
        "var builder = new KernelBuilder();\n",
        "\n",
        "if (useAzureOpenAI)\n",
        "{\n",
        "    builder.WithAzureTextEmbeddingGenerationService(\"text-embedding-
ada-002\", azureEndpoint, apiKey);\n",
        "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
        "\n",
        "}\n",
        "else\n",
        "{\n",
        "    builder.WithOpenAITextEmbeddingGenerationService(\"text-embedding-

```

```

ada-002\", apiKey);\n",
    "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
    "}\n",
    "\n",
    "var chromaMemoryStore = new ChromaMemoryStore(\"http://127.0.0.1:8000\");\n",
\n",
    "\n",
    "builder.WithMemoryStorage(chromaMemoryStore);\n",
    "\n",
    "var kernel = builder.Build();"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "At its core, Semantic Memory is a set of data structures that allows to\n",
        store\n",
        "the meaning of text that come from different data sources, and\n",
        optionally to\n",
        "store the source text and other metadata.\n",
        "\n",
        "The text can be from the web, e-mail providers, chats, a database, or\n",
        from your\n",
        "local directory, and are hooked up to the Semantic Kernel through memory\n",
        connectors.\n",
        "\n",
        "The texts are embedded, sort of \"compressed\", into a vector of floats\n",
        that representing\n",
        "mathematically the text content and meaning.\n",
        "\n",
        "You can read more about embeddings [here](https://aka.ms/sk/embeddings).\"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        \"### Manually adding memories\n",
        "\n",
        "Let's create some initial memories \"About Me\". We can add memories to\n",
        `ChromaMemoryStore` by using `SaveInformationAsync`\"
    ]
}

```

```

    ]
  },
  {
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    "execution_count": 5,
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      "dotnet_interactive": {
        "language": "csharp"
      },
      "polyglot_notebook": {
        "kernelName": "csharp"
      }
    },
    "outputs": [],
    "source": [
      "const string MemoryCollectionName = \"aboutMe\";\n",
      "\n",
      "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info1\", text: \"My name is Andrea\");\n",
      "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info2\", text: \"I currently work as a tourist operator\");\n",
      "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info3\", text: \"I currently live in Seattle and have been living there
since 2005\");\n",
      "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info4\", text: \"I visited France and Italy five times since 2015\");\n",
      "await kernel.Memory.SaveInformationAsync(MemoryCollectionName, id:
\"info5\", text: \"My family is from New York\");"
    ]
  },
  {
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
      "Let's try searching the memory:"
    ]
  },
  {
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    "metadata": {
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        "language": "csharp"
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```

```

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    }
},
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    {
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        "output_type": "stream",
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            "what is my name? My name is Andrea\n",
            "where do I live? I currently live in Seattle and have been living
there since 2005\n",
            "where is my family from? My family is from New York\n",
            "where have I travelled? I visited France and Italy five times since
2015\n",
            "what do I do for work? I currently work as a tourist operator\n"
        ]
    }
],
"source": [
    "var questions = new[]\n",
    "{\n",
    "    \"what is my name?\", \n",
    "    \"where do I live?\", \n",
    "    \"where is my family from?\", \n",
    "    \"where have I travelled?\", \n",
    "    \"what do I do for work?\", \n",
    "};\n",
    "\n",
    "foreach (var q in questions)\n",
    "{\n",
    "    var response = await kernel.Memory.SearchAsync(MemoryCollectionName,
q, limit: 1, minRelevanceScore: 0.5).FirstOrDefaultAsync();\n",
    "    Console.WriteLine(q + \" \" + response?.Metadata.Text);\n",
    "}"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Let's now revisit our chat sample from the [previous notebook](04-

```

```

context-variables-chat.ipynb).\n",
    "If you remember, we used context variables to fill the prompt with a
`history` that continuously got populated as we chatted with the bot. Let's
add also memory to it!"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "This is done by using the `TextMemorySkill` which exposes the `recall`
native function.\n",
        "\n",
        "`recall` takes an input ask and performs a similarity search on the
contents that have\n",
        "been embedded in the Memory Store. By default, `recall` returns the most
relevant memory."
    ]
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{
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        },
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            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "using Microsoft.SemanticKernel.Skills.Core;\n",
        "\n",
        "// TextMemorySkill provides the \"recall\" function\n",
        "kernel.ImportSkill(new TextMemorySkill());"
    ]
},
{
    "cell_type": "code",
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```

```

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  },
  "polyglot_notebook": {
    "kernelName": "csharp"
  }
},
"outputs": [],
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  "const string skPrompt = @"\n",
  "ChatBot can have a conversation with you about any topic.\n",
  "It can give explicit instructions or say 'I don't know' if it does not
have an answer.\n",
  "\n",
  "Information about me, from previous conversations:\n",
  "- {{$fact1}} {{recall $fact1}}\n",
  "- {{$fact2}} {{recall $fact2}}\n",
  "- {{$fact3}} {{recall $fact3}}\n",
  "- {{$fact4}} {{recall $fact4}}\n",
  "- {{$fact5}} {{recall $fact5}}\n",
  "\n",
  "Chat:\n",
  "{{$history}}\n",
  "User: {{$userInput}}\n",
  "ChatBot: \";\n",
  "\n",
  "var chatFunction = kernel.CreateSemanticFunction(skPrompt, maxTokens:
200, temperature: 0.8);"
]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "The `RelevanceParam` is used in memory search and is a measure of the
relevance score from 0.0 to 1.0, where 1.0 means a perfect match. We
encourage users to experiment with different values."
  ]
},
{
  "cell_type": "code",
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```

```

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  },
  "polyglot_notebook": {
    "kernelName": "csharp"
  }
},
"outputs": [],
"source": [
  "var context = kernel.CreateNewContext();\n",
  "\n",
  "context[\"fact1\"] = \"what is my name?\";\n",
  "context[\"fact2\"] = \"where do I live?\";\n",
  "context[\"fact3\"] = \"where is my family from?\";\n",
  "context[\"fact4\"] = \"where have I travelled?\";\n",
  "context[\"fact5\"] = \"what do I do for work?\";\n",
  "\n",
  "context[TextMemorySkill.CollectionParam] = MemoryCollectionName;\n",
  "context[TextMemorySkill.RelevanceParam] = \"0.6\";"
]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "Now that we've included our memories, let's chat!"
  ]
},
{
  "cell_type": "code",
  "execution_count": 10,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    }
  },
  "polyglot_notebook": {
    "kernelName": "csharp"
  }
},
"outputs": [],
"source": [
  "var history = \"\";\n",
  "context[\"history\"] = history;\n",
  "Func<string, Task> Chat = async (string input) => {\n",

```



```

        // Save new message in the context variables\n",
        context[\"userInput\"] = input;\n",
    \"\n\",
    // Process the user message and get an answer\n",
    var answer = await chatFunction.InvokeAsync(context);\n",
    \"\n\",
    // Append the new interaction to the chat history\n",
    history += $\"\\nUser: {input}\\nChatBot: {answer}\\n\\n\";\n",
    context[\"history\"] = history;\n",
    \"\n\",
    // Show the bot response\n",
    Console.WriteLine(\"ChatBot: \" + context);\n",
    \"};\"
    ]
},
{
    \"cell_type\": \"code\",
    \"execution_count\": 11,
    \"metadata\": {
        \"dotnet_interactive\": {
            \"language\": \"csharp\"
        },
        \"polyglot_notebook\": {
            \"kernelName\": \"csharp\"
        }
    },
    \"outputs\": [
        {
            \"name\": \"stdout\",
            \"output_type\": \"stream\",
            \"text\": [
                \"ChatBot:  Hi there! Yes, I remember you. Your name is Andrea, right?\n\"
            ]
        }
    ],
    \"source\": [
        \"await Chat(\"Hello, I think we've met before, remember? my name is...
\\");\"
    ]
},
{
    \"cell_type\": \"code\",
    \"execution_count\": 12,
    \"metadata\": {

```

```

    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [
    {
      "name": "stdout",
      "output_type": "stream",
      "text": [
        "ChatBot: Yes, I remember you said your family is from New York. Is
that where you want to go?\n"
      ]
    }
  ],
  "source": [
    "await Chat(\"I want to plan a trip and visit my family. Do you know
where that is?\");"
  ]
},
{
  "cell_type": "code",
  "execution_count": 13,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [
    {
      "name": "stdout",
      "output_type": "stream",
      "text": [
        "ChatBot: There are lots of fun things to do in New York! You could
visit the Empire State Building, take a boat ride around Manhattan, explore
Central Park, or take a tour of the Statue of Liberty.\n"
      ]
    }
  ],

```

```

"source": [
  "await Chat(\"Great! What are some fun things to do there?\");"
]
},
{
  "attachments": {},
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "### Adding documents to your memory\n",
    "\n",
    "Many times in your applications you'll want to bring in external
documents into your memory. Let's see how we can do this using
ChromaMemoryStore.\n",
    "\n",
    "Let's first get some data using some of the links in the Semantic Kernel
repo."
  ]
},
{
  "cell_type": "code",
  "execution_count": 17,
  "metadata": {
    "dotnet_interactive": {
      "language": "csharp"
    },
    "polyglot_notebook": {
      "kernelName": "csharp"
    }
  },
  "outputs": [],
  "source": [
    "const string memoryCollectionName = \"SKGitHub\";\n",
    "\n",
    "var githubFiles = new Dictionary<string, string>()\n",
    "{\n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/README.md\"]\n",
    "    = \"README: Installation, getting started, and how to\n",
    "    contribute\", \n",
    "    [\"https://github.com/microsoft/semantic-kernel/blob/main/samples/notebooks/dotnet/02-running-prompts-from-file.ipynb\"]\n",
    "    = \"Jupyter notebook describing how to pass prompts from a file\n",
    "    to a semantic skill or function\", \n",

```

```

        ["https://github.com/microsoft/semantic-kernel/blob/main/samples/
notebooks/dotnet/00-getting-started.ipynb"]\n",
        = \"Jupyter notebook describing how to get started with the
Semantic Kernel\", \n",
        ["https://github.com/microsoft/semantic-kernel/tree/main/samples/
skills/ChatSkill/ChatGPT"]\n",
        = \"Sample demonstrating how to create a chat skill interfacing
with ChatGPT\", \n",
        ["https://github.com/microsoft/semantic-kernel/blob/main/dotnet/src/
SemanticKernel/Memory/Volatile/VolatileMemoryStore.cs"]\n",
        = \"C# class that defines a volatile embedding store\", \n",
        ["https://github.com/microsoft/semantic-kernel/tree/main/samples/
dotnet/KernelHttpServer/README.md"]\n",
        = \"README: How to set up a Semantic Kernel Service API using
Azure Function Runtime v4\", \n",
        ["https://github.com/microsoft/semantic-kernel/tree/main/samples/
apps/chat-summary-webapp-react/README.md"]\n",
        = \"README: README associated with a sample starter react-based
chat summary webapp\", \n",
        };\"
    ]
},
{
    \"attachments\": {},
    \"cell_type\": \"markdown\",
    \"metadata\": {},
    \"source\": [
        \"Let's build a new Kernel.\"
    ]
},
{
    \"cell_type\": \"code\",
    \"execution_count\": 18,
    \"metadata\": {
        \"dotnet_interactive\": {
            \"language\": \"csharp\"
        },
        \"polyglot_notebook\": {
            \"kernelName\": \"csharp\"
        }
    },
    \"outputs\": [],
    \"source\": [
        \"var builder = new KernelBuilder();\n\",

```

```

        "\n",
        "if (useAzureOpenAI)\n",
        "{\n",
        "    builder.WithAzureTextEmbeddingGenerationService(\"text-embedding-ada-002\", azureEndpoint, apiKey);\n",
        "    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);\n",
        "\n",
        "}\n",
        "else\n",
        "{\n",
        "    builder.WithOpenAITextEmbeddingGenerationService(\"text-embedding-ada-002\", apiKey);\n",
        "    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\n",
        "}\n",
        "\n",
        "builder.WithMemoryStorage(new
ChromaMemoryStore(\"http://127.0.0.1:8000\"));
        "\n",
        "var kernel = builder.Build();"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Now let's add these files to ChromaMemoryStore using
`SaveReferenceAsync`."
    ]
},
{
    "cell_type": "code",
    "execution_count": 19,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [
        {
            "name": "stdout",

```

```

        "output_type": "stream",
        "text": [
            "Adding some GitHub file URLs and their descriptions to Chroma Semantic
Memory.\n",
            "    URL 1 saved\n",
            "    URL 2 saved\n",
            "    URL 3 saved\n",
            "    URL 4 saved\n",
            "    URL 5 saved\n",
            "    URL 6 saved\n",
            "    URL 7 saved\n"
        ]
    },
    "source": [
        "Console.WriteLine(\"Adding some GitHub file URLs and their descriptions
to Chroma Semantic Memory.\");\n",
        "var i = 0;\n",
        "foreach (var entry in githubFiles)\n",
        "{\n",
        "    await kernel.Memory.SaveReferenceAsync(\n",
        "        collection: memoryCollectionName,\n",
        "        description: entry.Value,\n",
        "        text: entry.Value,\n",
        "        externalId: entry.Key,\n",
        "        externalSourceName: \"GitHub\"\n",
        "    );\n",
        "    Console.WriteLine($\"    URL {++i} saved\");\n",
        "}"
    ]
},
{
    "cell_type": "code",
    "execution_count": 20,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [
        {

```

```

"name": "stdout",
"output_type": "stream",
"text": [
  "=====\n",
  "Query: I love Jupyter notebooks, how should I get started?\n",
  "\n",
  "Result 1:\n",
  "  URL:      : https://github.com/microsoft/semantic-kernel/blob/main/
samples/notebooks/dotnet/00-getting-started.ipynb\n",
  "  Title     : Jupyter notebook describing how to get started with the
Semantic Kernel\n",
  "  Relevance: 0.7357226014137268\n",
  "\n",
  "Result 2:\n",
  "  URL:      : https://github.com/microsoft/semantic-kernel/blob/main/
samples/notebooks/dotnet/02-running-prompts-from-file.ipynb\n",
  "  Title     : Jupyter notebook describing how to pass prompts from a
file to a semantic skill or function\n",
  "  Relevance: 0.6330309212207794\n",
  "\n",
  "Result 3:\n",
  "  URL:      : https://github.com/microsoft/semantic-kernel/blob/main/
README.md\n",
  "  Title     : README: Installation, getting started, and how to
contribute\n",
  "  Relevance: 0.6175204217433929\n",
  "\n"
]
},
],
"source": [
  "string ask = \"I love Jupyter notebooks, how should I get started?\";\n",
  "Console.WriteLine(\"=====\n\n\" +\n",
  "  \"      \"Query: \" + ask + \"\\n\\n\");\n",
  "\n",
  "var memories = kernel.Memory.SearchAsync(memoryCollectionName, ask,
limit: 5, minRelevanceScore: 0.6);\n",
  "\n",
  "i = 0;\n",
  "await foreach (MemoryQueryResult memory in memories)\n",
  "{\n",
  "  Console.WriteLine($\"Result {++i}:\\n\");\n",
  "  Console.WriteLine(\"  URL:      : \" + memory.Metadata.Id);\n",
  "  Console.WriteLine(\"  Title     : \" + memory.Metadata.Description);\n",
  "\n",

```

```

        Console.WriteLine("\n  Relevance: \" + memory.Relevance);\n",
        Console.WriteLine();\n",
    }"
    ]
}
],
"metadata": {
    "kernel_spec": {
        "display_name": ".NET (C#)",
        "language": "C#",
        "name": ".net-csharp"
    },
    "language_info": {
        "name": "polyglot-notebook"
    },
    "polyglot_notebook": {
        "kernel_info": {
            "defaultKernelName": "csharp",
            "items": [
                {
                    "aliases": [],
                    "name": "csharp"
                }
            ]
        }
    }
},
"nbformat": 4,
"nbformat_minor": 2
}

```


dotnet/10-BingSearch-using-kernel.ipynb

```
{
  "cells": [
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "# BingSearch using Kernel \n",
        "\n",
        "This notebook explains how to integrate Bing Search with the Semantic  
Kernel to get the latest information from the internet.\n",
        "\n",
        "To use Bing Search you simply need a Bing Search API key. You can get  
the API key by creating a [Bing Search resource](https://learn.microsoft.com/  
en-us/bing/search-apis/bing-web-search/create-bing-search-service-resource)  
in Azure. \n",
        "\n",
        "To learn more read the following [documentation](https://  
learn.microsoft.com/en-us/bing/search-apis/bing-web-search/overview)\n"
      ]
    },
    {
      "attachments": {},
      "cell_type": "markdown",
      "metadata": {},
      "source": [
        "Prepare a Semantic Kernel instance first, loading also the AI backend  
settings defined in the [Setup notebook](0-AI-settings.ipynb):"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": null,
      "metadata": {
        "dotnet_interactive": {
          "language": "csharp"
        },
        "polyglot_notebook": {
          "kernelName": "csharp"
        }
      },
      "outputs": [],
    }
  ],
  "outputs": [],
}
```

```

"source": [
  "#r \"nuget: Microsoft.SemanticKernel, 0.17.230626.1-preview\\\"\\n\",
  "#r \"nuget: Microsoft.SemanticKernel.Skills.Web, 0.17.230626.1-
preview\\\"\\n\",
  \"\\n\",
  \"#!import config/Settings.cs\\n\",
  \"#!import config/Utils.cs\\n\",
  \"\\n\",
  \"using Microsoft.SemanticKernel;\\n\",
  \"using Microsoft.SemanticKernel.Skills.Core;\\n\",
  \"using Microsoft.SemanticKernel.SkillDefinition;\\n\",
  \"using Microsoft.SemanticKernel.Orchestration;\\n\",
  \"using Microsoft.SemanticKernel.Planning;\\n\",
  \"using Microsoft.SemanticKernel.Planning.Sequential;\\n\",
  \"using Microsoft.SemanticKernel.TemplateEngine;\\n\",
  \"using InteractiveKernel = Microsoft.DotNet.Interactive.Kernel;\\n\",
  \"var builder = new KernelBuilder();\\n\",
  \"\\n\",
  \"// Configure AI backend used by the kernel\\n\",
  \"var (useAzureOpenAI, model, azureEndpoint, apiKey, orgId) =
Settings.LoadFromFile();\\n\",
  \"\\n\",
  \"if (useAzureOpenAI)\\n\",
  \"    builder.WithAzureTextCompletionService(model, azureEndpoint, apiKey);
\\n\",
  \"else\\n\",
  \"    builder.WithOpenAITextCompletionService(model, apiKey, orgId);\\n\",
  \"\\n\",
  \"var kernel = builder.Build();\"
],
{
  \"attachments\": {},
  \"cell_type\": \"markdown\",
  \"metadata\": {},
  \"source\": [
    \"Add the following namespaces to use the Bing Search connector.\"
  ]
},
{
  \"cell_type\": \"code\",
  \"execution_count\": null,
  \"metadata\": {
    \"dotnet_interactive\": {

```

```

        "language": "csharp"
    },
    "polyglot_notebook": {
        "kernelName": "csharp"
    }
},
"outputs": [],
"source": [
    "using Microsoft.SemanticKernel.Skills.Web;\n",
    "using Microsoft.SemanticKernel.Skills.Web.Bing;"
]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Enter your Bing Search Key in BING_KEY using `InteractiveKernel` method  

as introduced in [`.NET Interactive`](https://github.com/dotnet/interactive/  

blob/main/docs/kernels-overview.md)"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "using InteractiveKernel = Microsoft.DotNet.Interactive.Kernel;\n",
        "\n",
        "string BING_KEY = await InteractiveKernel.GetPasswordAsync(\"Please  

enter your Bing Search Key\");"
    ]
},
{
    "attachments": {},
    "cell_type": "markdown",

```

```

    "metadata": {},
    "source": [
        "Below are some examples on how [WebSearchEngineSkill](../../dotnet/  
src/Skills/Skills.Web/WebSearchEngineSkill.cs) can be used in SK. "
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "private static async Task Example1Async(IKernel kernel)\n",
        "{\n",
        "    Console.WriteLine(\"Example 1\");\n",
        "\n",
        "    // Run\n",
        "    var question = \"What is quantum tunnelling\";\n",
        "    var bingResult = await kernel.Func(\"bing\",  
\"search\").InvokeAsync(question);\n",
        "\n",
        "    Console.WriteLine(question);\n",
        "    Console.WriteLine(\"----\");\n",
        "    Console.WriteLine(bingResult);\n",
        "    Console.WriteLine();\n",
        "\n",
        "    /* OUTPUT:\n",
        "\n",
        "        What is quantum tunnelling\n",
        "        ----\n",
        "        In physics, quantum tunnelling, barrier penetration, or  
simply tunnelling is a quantum mechanical\n",
        "        phenomenon in which an object such as an electron or atom  
passes through a potential energy  
        barrier that, according to classical mechanics, the object  
does not have sufficient energy to  
        enter or surmount.\n",
    ]

```

```

        "\n",
        " */\n",
        "}"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "dotnet_interactive": {
            "language": "csharp"
        },
        "polyglot_notebook": {
            "kernelName": "csharp"
        }
    },
    "outputs": [],
    "source": [
        "private static async Task Example2Async(IKernel kernel)\n",
        "{\n",
        "    Console.WriteLine(\"Example 2\");\n",
        "\n",
        "    //The following function only works in interactive notebooks\n",
        "    string question = await InteractiveKernel.GetInputAsync(\"Please ask\n",
        "your question\");\n",
        "\n",
        "    var bingResult = await kernel.Func(\"bing\",
        \"search\").InvokeAsync(question);\n",
        "\n",
        "    Console.WriteLine(bingResult);\n",
        "}\n",
        ]
},
{
    "attachments": {},
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "Just uncomment the examples to run them in the following code:"
    ]
},
{
    "cell_type": "code",
    "execution_count": null,

```

```

"metadata": {
  "dotnet_interactive": {
    "language": "csharp"
  },
  "polyglot_notebook": {
    "kernelName": "csharp"
  }
},
"outputs": [],
"source": [
  "// Load Bing skill\n",
  "using (var bingConnector = new BingConnector(BING_KEY))\n",
  "{\n",
  "    kernel.ImportSkill(new WebSearchEngineSkill(bingConnector),
  \\"bing\\");\n",
  "\n",
  "    //await Example1Async(kernel);\n",
  "    //await Example2Async(kernel);\n",
  "}"
]
},
],
"metadata": {
  "kernelspec": {
    "display_name": ".NET (C#)",
    "language": "C#",
    "name": ".net-csharp"
  },
  "language_info": {
    "name": "polyglot-notebook"
  },
  "orig_nbformat": 4,
  "polyglot_notebook": {
    "kernelInfo": {
      "defaultKernelName": "csharp",
      "items": [
        {
          "aliases": [],
          "name": "csharp"
        }
      ]
    }
  }
},
},

```

```
"nbformat": 4,  
"nbformat_minor": 2  
}
```

dotnet/README.md

Semantic Kernel C# Notebooks

The current folder contains a few C# Jupyter Notebooks that demonstrate how to get started with the Semantic Kernel. The notebooks are organized in order of increasing complexity.

To run the notebooks, we recommend the following steps:

- [Install .NET 7](https://dotnet.microsoft.com/download/dotnet/7.0)
- [Install Visual Studio Code (VS Code)](https://code.visualstudio.com)
- Launch VS Code and [install the "Polyglot" extension](https://marketplace.visualstudio.com/items?itemName=ms-dotnettools.dotnet-interactive-vscode).

Min version required: v1.0.4102020 (Feb 2022).

The steps above should be sufficient, you can now ****open all the C# notebooks in VS Code****.

VS Code screenshot example:

![[image](https://user-images.githubusercontent.com/371009/216761942-1861635c-b4b7-4059-8ecf-590d93fe6300.png)]

Set your OpenAI API key

To start using these notebooks, be sure to add the appropriate API keys to ``config/settings.json``.

You can create the file manually or run [the Setup notebook](0-AI-settings.ipynb).

For Azure OpenAI:

```
```json
{
 "type": "azure",
 "model": "...", // Azure OpenAI Deployment Name
 "endpoint": "...", // Azure OpenAI endpoint
 "apikey": "...", // Azure OpenAI key
}
```
```


For OpenAI:

```
```json
{
 "type": "openai",
 "model": "text-davinci-003", // OpenAI model name
 "apikey": "...", // OpenAI API Key
 "org": "" // only for OpenAI accounts with multiple orgs
}
```
```

If you need an Azure OpenAI key, go [here](https://learn.microsoft.com/en-us/azure/cognitive-services/openai/quickstart?pivots=rest-api).

If you need an OpenAI key, go [here](https://platform.openai.com/account/api-keys)

Topics

Before starting, make sure you configured `config/settings.json`, see the previous section.

For a quick dive, look at the [getting started notebook](00-getting-started.ipynb).

1. [Loading and configuring Semantic Kernel](01-basic-loading-the-kernel.ipynb)
2. [Running AI prompts from file](02-running-prompts-from-file.ipynb)
3. [Creating Semantic Functions at runtime (i.e. inline functions)](03-semantic-function-inline.ipynb)
4. [Using Context Variables to Build a Chat Experience](04-context-variables-chat.ipynb)
5. [Creating and Executing Plans](05-using-the-planner.ipynb)
6. [Building Memory with Embeddings](06-memory-and-embeddings.ipynb)
7. [Creating images with DALL-E 2](07-DALL-E-2.ipynb)
8. [Chatting with ChatGPT and Images](08-chatGPT-with-DALL-E-2.ipynb)

Run notebooks in the browser with JupyterLab

You can run the notebooks also in the browser with JupyterLab. These steps should be sufficient to start:

Install Python 3, Pip and .NET 7 in your system, then:

```
pip install jupyterlab
dotnet tool install -g Microsoft.dotnet-interactive
dotnet tool update -g Microsoft.dotnet-interactive
dotnet interactive jupyter install
```

This command will confirm that Jupyter now supports C# notebooks:

```
jupyter kernelspec list
```

Enter the notebooks folder, and run this to launch the browser interface:

```
jupyter-lab
```

![[image](https://user-images.githubusercontent.com/371009/216756924-41657aa0-5574-4bc9-9bdb-ea3db7bf93a.png)]

Troubleshooting

Nuget

If you are unable to get the Nuget package, first list your Nuget sources:

```
```sh
dotnet nuget list source
```
```

If you see `No sources found.`, add the NuGet official package source:

```
```sh
dotnet nuget add source "https://api.nuget.org/v3/index.json" --name
"nuget.org"
```
```

Run `dotnet nuget list source` again to verify the source was added.

Polyglot Notebooks

If somehow the notebooks don't work, run these commands:

- Install .NET Interactive: `dotnet tool install -g Microsoft.dotnet-interactive`
- Register .NET kernels into Jupyter: `dotnet interactive jupyter install` (this might return some errors, ignore them)

- If you are still stuck, read the following pages:
 - <https://marketplace.visualstudio.com/items?itemName=ms-dotnettools.dotnet-interactive-vscode>
 - <https://devblogs.microsoft.com/dotnet/net-core-with-jupyter-notebooks-is-here-preview-1/>
 - <https://docs.servicestack.net/jupyter-notebooks-csharp>
 - <https://developers.refinitiv.com/en/article-catalog/article/using--net-core-in-jupyter-notebook>

Note: ["Polyglot Notebooks" used to be called ".NET Interactive Notebooks"] (<https://devblogs.microsoft.com/dotnet/dotnet-interactive-notebooks-is-now-polyglot-notebooks/>), so you might find online some documentation referencing the old name.