

Export Code

November 23, 2021

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[1]: import os
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[2]: def walkp(b, replace='', skip=[]):
    ps = []
    for root, folders, files in os.walk(b):
        rest = root.replace(replace, "").rstrip(os.path.sep)
        if rest.startswith('.'):
            continue
        ps = [rest]
        for fo in folders:
            if not fo in skip and not fo.startswith('.'):
                ps.append(walkp(os.path.join(root, fo), b, skip=skip))
        fis = []
        for fi in files:
            if not fi in skip and not fi.startswith('.'):
                fis.append(fi)
        ps.append(fis)
        break
    return ps

def walkd(b, replace='', skip=[]):
    ps = {}
    for root, folders, files in os.walk(b):
        rest = root.replace(replace, "").rstrip(os.path.sep)
        if rest.startswith('.'):
            continue
        ps[rest] = []
        for fo in folders:
            if not fo in skip and not fo.startswith('.'):
                ps[rest].append(walkd(os.path.join(root, fo), b, skip=skip))
        fis = []
        for fi in files:
            if not fi in skip and not fi.startswith('.'):
                fis.append(fi)
        ps[rest].append(fis)
        break
    return ps
```

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[3]: base = '/home/julian/Downloads/Github/contrastive-predictive-coding/'
l = walkd(base, base, skip=['models', 'models_symbolic_links', '__pycache__'])
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[4]: #print(str(l).replace(',', '\n').replace('"', '').replace("_", '\\_'))
```

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[8]: def print_latex_code(base, replace= '', folder_filter_fns=[],
    ↳file_filter_fns=[], subsection_level=0):
    for root, folders, files in os.walk(base):
        if not (folders == [] and files == []):
            long_name = ' -> '.join(base.replace(replace, '').split(os.path.
    ↳sep))
            print(make_section(subsection_level, os.path.basename(base),
    ↳long_name)+' (folder)')
            #print('\t'*subsection_level)
            for fo in sorted(folders):
                if not any([fn(fo) for fn in folder_filter_fns]):
                    print_latex_code(os.path.join(root, fo), replace,
    ↳folder_filter_fns, file_filter_fns, subsection_level+1)
                for fi in sorted(files):
                    if not any([fn(fi) for fn in file_filter_fns]):
                        long_name = ' -> '.join(os.path.join(base, fi).replace(replace,
    ↳'').split(os.path.sep))
                        print(make_section(subsection_level+1, fi, long_name) +"\n
    ↳(code)")
                        #print('\t'*(subsection_level+1)+"code")
                        if fi.endswith('.pdf'):
                            print('\t'*(subsection_level+1)+
                                f'\\includepdf[pages=-]{{{os.path.join(base, fi)}}}')
                        else:
                            print('\t'*(subsection_level+1)+
                                f'\\lstinputlisting[language=Python]{{{os.path.
    ↳join(base, fi)}}}')
                        break

def make_section(subsection_level, short_name, long_name):
    sec = '\t'*subsection_level+'\\'
    if subsection_level < 3:
        sec += 'sub'*subsection_level+'section'
    elif subsection_level == 3:
        sec += 'paragraph'
    elif subsection_level == 4:
        sec += 'subparagraph'
    elif subsection_level > 4:
        return ''
    short_name = short_name.replace('_', '\\_')
    long_name = long_name.replace('_', '\\_')
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return sec+f'[{short_name}][{{{long_name}}}]'
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[9]: folder_filter_fns = [
    lambda x: x.startswith('.'),
    lambda x: 'pycache' in x,
    lambda x: x == 'models',
    lambda x: x == 'models_symbolic_links',
    lambda x: x == 'data_output',
    lambda x: x == 'images'
]
file_filter_fns = [
    lambda x: x.startswith('.'),
    lambda x: not (x.endswith('.py') or x.endswith('.pdf')),
    lambda x: x == '__init__.py'
]
print_latex_code(base, base, folder_filter_fns, file_filter_fns, 0)
```

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\section[]{} (folder)
    \subsection[architectures\_baseline]{architectures\_baseline} (folder)
        \subsubsection[baseline\_cnn\_v0.py]{architectures\_baseline ->
baseline\_cnn\_v0.py} (code)
\lstinputlisting[language=Python]{"/home/julian/Downloads/Github/contrastive-
predictive-coding/architectures\_baseline/baseline\_cnn\_v0.py"}
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-> baseline\_cnn\_v0\_1.py} (code)
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predictive-coding/architectures\_baseline/baseline\_cnn\_v0\_1.py"}
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predictive-coding/architectures\_baseline/baseline\_cnn\_v0\_2.py"}
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\lstinputlisting[language=Python]{"/home/julian/Downloads/Github/contrastive-
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-> baseline\_convencoder.py} (code)
\lstinputlisting[language=Python]{"/home/julian/Downloads/Github/contrastive-

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baseline\_cnn\_v0\_2.py} (code)
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aseline\_challenge -> baseline\_rnn\_simplest\_gru.py} (code)
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coding/architectures_baseline_challenge/baseline_rnn_simplest_gru.py"}
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(code)
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cpc\_encoder\_vresnet.py} (code)

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